Anatomy of the Silk Worm.

Assisted by the microscrope, the min-ute internal mechanism of that utilized worm has been perfectly demonstrated. As soon as it is hatched a voracious appetite is manifested. This led men in early, far-off times of oriental civilization, to take advantage of their unsatisfied hunger, to turn the product of their

make positive provision for the repro-duction of each and every species of living thing which has been created, till the object of their existence has been attained, when, for aught we know to the contrary, they disappear forever, like the lamented dodo, for which naturalists are still in mourning.

Silk worms eat almost without cessation, provided appropriate food is placed before them, from their exit from the shell up to a certain point, when they stop suddenly—as though they were full and could hold no more. In the meanwhile they are growing in size rapidly, so that, besides being neurished by certain properties belonging to the mulberry leaf, there is elaborated a clear, transparent fluid, which is secreted from the homogeneous mass in their stomach, and conducted by two very long, coiled membranous tubes to two curiouslyformed reservoirs, lying on each side of their utmost capacity.

At that juncture silk worm culturists

say the worm dies as soon as it fair, from Pennsylvania an average, from spins a cocoon. That is a mistaken Indiana good, while from California we rapid preparation for passing through a remarkable metamorphosis, by developing into a winged insect. The two ing into a winged insect. The two the South the reports are very favorable, sacks have extremely fine, attenuated and new wheat has already made its appipes extending from them to two min-ute orifices just under the mouth, but not opening in it as some have supposed. The worm on feeling the notifying sensation that the evolution of wings, legs, and a proboscis are ready to begin to shoot into proportions, contracts the walls of its body on the sacks—forcing the pent up fluid to flow onwardly. Just as it arrives at the orifices where it comes into the open air, it passes through two little glandular carbuncles—smaller than the smallest pin head, which pours a secretion peculiar to themselves, which, on mixing with the tiny current of clear fluid from the reservoirs, in a the glands the fluid is thin and transparent, on the other it is a strong fibre. Probably its exit into the atmosphere contributes something towards the con-

A more curious chemical phenomenon has never been recognized. It has no parallel in entomology, unless it is partially found in the spider family, a subject to be hereafter treated.

Spinning a cocoon, then, is simply winding itself round and round in a soft silken, flossy material extruded from its own body. The muscular apparatus by which the worm accomplishes that operation would be a study for a college theme, and a puzzle for many big wigs. Left to itself, unmolested, the appar-

ently dead worm-now in a chrysalis state—that is, in a profound sleep, breathes all the while through spiracles pond with orifices in its new body about coming forth. The thick coat of fat, equivalent to blubber under the skin of a whale, is absorbed for food ed-stretches out its folded limbs, bursts open the old dry outside worm covering, crawls out of the cocoon and flits away among the flowers, if not kept a prisoner. It is the policy of silk worm grow-

ers to do so. The female soon begins to extrude an immense volume of eggs. When that has been concluded, the final cause of life with them has been accomplished. Another generation of silk vorms has been secured and death then closes the scene.

Thus an humble, unsightly worm is an instrument in the hands of man for clothing queens and furnishing gorgeous hangings for palaces. It is one of the links in the golden chain of nature which demonstrates the mutual dependence of one order of beings upon another for necessaries in one case, comforts in another, and the refinements which characterize the highest grade of civilization. A silk worm, low as it is, feeding on the margin of a mulberry leaf, is a benefactor to the world and indispensable to the stability of institutions and manufactures which are similes of wealth, taste, and artistic elegance.

Origin of Amber.

Professor Zaddach shows that the trees which yielded the amber must have grown upon the green-sand beds of the Cretaceous Period, flourishing luxuriantly on the marshy coast which then surrounded the great continent of Northern Europe. Probably the tem-perature was then much higher than it is now; and this even at that epoch extended to the now frost-bound Arctic regions, a fact which has been proved by the remarkable plant-remains of temperate climes which have been recently discovered there. The amber flora of the Baltic area under review contains northern forms associated with plants of more temperate zones; and thus camphor trees (Cinnamomum) occur with willows, birches, beech and numerous oaks. A species of Thuya, very similar to the American Thuya occiden talis, is the most abundant tree amongst the conifers; next in abundance, Widdringtonia, a great variety of pines and firs, including the amber pine; thousands of these, it is supposed by the professor, might have perished; and while the wood decayed, the rosin with which the stem and branches were loaded might have been accumulated in large quantities, in bogs and lakes, in the soil of the forest. If the coast at that time was gradually sinking, the sea would cover the land, and in due course earry away the amber and masses of vegetabl detritus into the ocean, where it was deposited amidst the marine animals which inhabit it. But in higher districts the amber pines would still flourish, and so amber still continues to be washed into the sea, and deposited in the later formed green-sand, and still later overlying formation of the "brown coal."

Quito, in South America, contains but three drug stores, according to the testimony of travellers. A serpent is the significant sign of the business. Phys cians there have no offices, and rarely visit patients at their dwellings. When a person is too sick to call upon the doctor, it is considered a hopeless case.

Crop Prospects.

The past winter has been noted in ctions for its few snows and their thawing, in others for the great length of time which the snows have lain on the ground. The misfortune of the first is that the sudden thaws caused most of the melted snow to run off into the streams, and further that they were The voracity of the silk worm has reference to a law of their nature, on the trace described by the race of the death of the race described by the race of the death of the race described by the race of the death of the race described by the race of the death of the race described by the race of the death of the race of the race described by the race of the death of the race of the ra in a grain-growing region the winter wheat has been killed. Over how large an extent of country this result has been brought about cannot accurately be determined in the present meagre system of our meteorological reports; but from the sources at command we estimate that the area of winter-killed wheat cannot be very large in that section of our country which produces the great bulk of our grain crop. In fact, in the new grain-fields of the Northwest the substitution of spring for winter wheat has become almost universal, and its growth is attempted in only a few coun-Nebraska. The States furnishing more than half of our total wheat crop are Illinois, Indiana, Ohio, Michigan, consin, Iowa, California, and Pennsylvania. Of these, Wisconsin, Iowa, and Minnesota sow but little winter wheat, and hence, with such seasons as have good, from Michigan poor, from Ohio The worm does not die, but makes are informed that the acreage planted pearance in the markets of Atlanta and

Chattanooga. While such is the appearance of the crops in our own country there is a great scarcity of grain in the great depots of Europe, and correspondents, while speaking hopefully of the grain crops, are wary in their statements, and it may their product last year will yet prevail this season. In our own land the ands of acres every year added to the tillable soil tend to increase our aggregate product, though meteorological influences may cause a decrease in one or another particular section; hence it is twinkling of an eye changes it into a safe to infer that our wheat crop of this tenacious silk thread. On one side of year will not fall below the last, though its average cost of production per bushel may be greater. Through the introduction of the steam plough, and the concentration of energy and capital upon large farms, may be effected the production of greater quantities of wheat per acre at a less price per bushel; and at the same time greater exemption be attained from the effects of severe

weather. It is a well ascertained fact that the mount of rainfall in the month of May directly influences the quantity of the hay crop. Whether the lateness of the season this year will allow the rains of early June to go to the credit of May can only be told when the crop is gathered. At present the indications are that the crop of hay will not exceed that of 1571. At the same time, as during last year, it is probable that the or openings on each side, which corres- quality will be better than if there had been a very favorable season and an ex-

cessive crop.

In the South a larger acreage in cotton than last year has been planted. while the change is progressing. When exhausted, the perfect butterfly is finishat least an average. Cotton is, after its early springing up, in great measure a sun plant; and further, the great bulk of the cotton is produced on a soil which will not bear moisture even in such excess as would not at all injure corn. If the latter part of June and the month of July should be moderately dry in the great cotton-growing sections of Alabama and Mississippi, with a warm, dry August, there may be expected a large product of cotton in the fields, and whether it will be picked is a branch of the labor question we are not called upon to argue.

Corn is one of the spring grains, and hence has none of the dangers of severe winters to undergo. The reports from the various States indicate a good prospect, though in many places the cutvorm is doing great damage. The fruit crop of this year will hardly exceed two-thirds that of 1871, but, as

is usual with a less crop, the quality is everywhere expected to be better. It is estimated that Delaware will produce but little over one-half of last year, while New Jersey is not looked upon to bestow upon us more than two-thirds of the delicious, rosy-tinted peaches from her southern sands, or of the latter, but to the housekeeper not less well-ome, "whites" from the hill of Morris. From the West we have the news that their fruit crop is expected to be especially good, while the grapes may lack in quantity, but will excel in flavor. The apple crop will not in any section more than exceed that of last year, unless in the southern Alleghanies, from which, however, we obtain no supplies. The fruit crop of California which, from rapid transportation has become an item of interest to us, is stated to be large and of the usual quality. The grapes will be better than ever before, from the increased production of improved varieties. From the South the welcome news comes to us that the fruit crop there is likely to be very great, and hence from Savannah, Charleston, and Norfolk may be expected such a quantity as will make up the deficiency of our neighbors in Delaware and New Jersey .- N. Y. World,

DISTURBANCE IN THE SUN.-Familiar as we all are with the great luminary of the solar system, astronomers at of this new existence, as they allowed this particular epoch were never so vividly excited in regard to its physical rents, who had been almost in despair at character. Since the invention of the spectroscope, they have found, we have been profoundly ignorant in a branch of science considered quite firmly established. Within the past few months observers have witnessed gigantic displays of force in the metallic lustre of and fortune, formerly Mayor of Cincinthe sun's atmosphere, far more wondernati, who chooses to lead here the life of ful than any phenomena heretofore seen a hermit, solitary and alone, save with a or suspected in far aff celestial regions. There are frequent burstings or explosions on the surface of the sun, apparently, which rend a path through its shining envelope at the rate of seventy thousand miles in a single minute. Electricity is a slow coach in comparison.

Two acres of forest land on a moun tain side near Elkton, Mo., recently sunk to the depth of the tree tops, leaving walls as vertical as the sides of a

AGRICULTURAL.

SUMMER PRUNING CURRANTS .- Economy in time and favorable results are strong points in faver of summer pruning of the currant. For the past three or four years we have watched closely experiments, instituted on a large scale, to test this method, and each succeeding experience is more convincing than the previous one that summer is the best time for doing the principal pruning of the currant. A healthy currant plant comes into leaf and starts a growth of wood early in April. It is a fast grower, so that by the 1st of August the young wood is fully matured, and may, if wanted, be cut off from the parent plant, set in the ground, and it will within a few bearing, as well as young bushes, the new growth is three times as much as should be allowed to remain. With the old method this surplus wood is left to Purchasing Bureau, 704 Broadway, N. mature, and at the annual pruning late in winter this unnecessary quantity is cut out, and thrown away, for it seldom happens that those who grow currents ies of Wisconsin, Minnesota, Iowa, and for home use or market can make use of the currant cuttings. The most tedious part of the labor of raising currants is this annual pruning, which is not only tiresome, but also expensive.

When summer pruning is practiced, at least three-quarters of this labor and loss of time is saved. During the first the body. They have a slight semblance to shot pouches. When they expect from them a good crop of wheat the bushes, pulling off such shoots as stop feeding, those sacks are filled to their utmost capacity.

Their utmost capacity.

Their agod crop of wheth the business planting on sale of the bearing bush, their utmost capacity. and with the thumb and finger pinching off the ends of the shoots that are left to mature. And one who has not tried this method can form no conception how rapidly a smart lad will finish a bed of currents. The thinning out and shortening increases the size and vigor of the bush in a very striking manner. Try two rows, pruning one and let the other run wild. In two years] the difference in favor of the former will be so marked that a stranger would scarcely believe that the rows were planted at the same time, and cultivated and manured alike. The size of the burches and berries will also give indisputable evidence that there is much be that the same causes which cut off to be gained by following this practice of summer pruning.

SMALL FRUITS IN SANDY SOIL .- W. have the following note from Mr. A. B. Allen of this city: "You say in The Tribune that it will prove useless to 'plant rhubarb in thin, poor soil.' I have heard others assert that 'it cannot be grown on sandy land.'

"I inclose you a sample of my garder soil at Tom's River, N. J., which you will observe is almost a pure white sea sand. About two feet below the surface a yellow sand, not quite so shifting, but, like this, without a trace of alumina, and scarcely a trace of vegetable matter in its composition. I set out rhubarb here of the New World is, as yet, imperfectly two years ago this April past, and put about half a bushel of unfermented stable manure around each plant. Got a small crop that season, and a fair one last ever saw produced. Every autumn since planting I have put four forkfuls of coarse, unfermented, stable manure round each plant, and in the spring mulched lightly with salt-marsh hay. This is all I ever did to it, except marking and liming the surface of the garden lightly in April, 1870. I have other land, a thin, poor, gravelly soil, where I planted rhubarb last spring, and treated it as I have in the garden, except mulching. The growth this spring is equal to that of the garden. It is the Myatt Linnaeus variety.

manured, like the rhubarb, and mulch-Gooseberries have done equally well, and are loaded now with green fruit. On my thin gravel, and especially alongside of an open slat or rail fence, north, east or west sides, currants and gooseberries grow about as well as in any other soil, if properly manured; and all small berry fruit in such soils, from strawberries on to blackberries, are of a superior, sweet, tender flavor."

Boy Crusoes.

Two French boys, aged about twelve, who, fresh from the reading of "Robinson Crusoe," and tired of the restraint away from home to imitate De Foe's hero in a desert country. The field they chose for their adventures had the advantage of being nearer home than Juan Fernandez—an island on the Seine between Asnieres and Neuilly. A boatman was crossing that piece of waste land a short time ago, when he was surprised to see smoke issuing from a hole in the ground, and to hear juvenile voices. He soon discovered the entrance to a sort of cavern, the opening of which had been concealed by brushwood, and, continuing his search, disturbed the young truants just as they were preparng their supper of four potatoes, cookus in the embers.

had besides a small store of provisions, consisting of four rolls, some pieces of gingerbread, and part of a save-loy; and had also come prepared to renew their larder by fishing and hunting, one contributing a line and hooks, and the other a bow and arrow: with the latter they said they had already killed

water rat and cooked it. Their bed consisted of a heap of shavings, which they found in a barge on the river. The boys, when questioned, said they lived in the Avenue de Neuilly, and had been on the island for two days; they were evidently getting tired the man to take them back to their pa-

their absence. A FLORIDA RECLUSE.-St. Vincent. Fla., is an island of 7,000 acres, owned and occupied for the last three years by Mr. Hatch, a gentleman of intelligence servant or two, and seeing few visitors. Indeed, he is incensed whenever his privacy is intruded upon except on invitation. His island swarms with deer and cattle, his library is full of books, and with these and hunting and fishing he passes his time away—the monarch of all he surveys.

The Iowa farmer who strapped his shot gun to his plough to be ready for game will not be about again for some

Quite a number of persons in Monroe county, Michigan, have been in the

LIPE INSURANCE SPECULATIONS.

habit of insuring the lives of such of their neighbors as to them seemed short lived, and considerable money was thus speculatively paid out in premiums. Recently some of the insured have died. and the companies have informed the parties that effected the insurance, that having no legal interest in the lives of the insured, their claims are worthless and will be contested.

The Ocean Steamers bound for European Ports, bear witness to the increase of American travel to points of interest in the old werld. Tourists should bear weeks make roots that before cold in mind that anything that New York weather will be well established. Upon City affords can be purchased at first cost, and be forwarded to any address, by communicating with the New York

Y. Endorsed by New York merchants. Families that do not travel can save money by making a note of the address. Send for explanatory circular.

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influence that a marked improvement is soon perceptible.

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mation of the Liver and Visceral Organs, and in Discases.

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Cleanse the Vitlated Blood whenever you find its inpurities bursting through the skin in Pinnples, Eruptions, or Sores: cleanse it when you find it obstructed and sluggish in the veius: cleanse it when it is foul; your feelings will tell you when. Keep the blood pure, and the health of the system will follow.

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Billions, Remittent, and Intermittent Preventive, are preventive in the value of the Preventive.

or twice a week, as a Preventive.

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Dr. Walker's California Vinegar Bitters x on all these cases in a similar manner. By purifying the Blood they remove the cause, and by resolving away to effects of the inflammation (the tubercular deposits) the affected parts receive health, and a permanent cure

the affected parts receive health, and a permanent cure is effected.

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