3. That the Pericardium or the Case of the Heart being opened, there appeared none of that water, in which the Heart uses to swim; and the external Surface of it, from the Base to the Tipp, was not smooth, but very rough. It being cut as under, a quantity of white and inspissate liquour run out, and beneath the Base, between the right and left Ventricle, two stones were found, whereof the one was as bigg as an Almond, the other, two Inches long and one broad, having three Auricles or crisped Angles: And in the Orifice of the right Ventricle, there was a fleshy fattish Matter.

4. That the whole Body was bloudless, thin, and emaciated,

of a black and bluish Colour.

5. The Scull being opened, both the Cerebrum and Cerebellum were bigg in proportion to the Body; and out of it run much more Bloud, than was feen in both the other Regions together.

Of the designed Progress to be made in the Breeding of Silkworms, and the Making of Silk, in France.

The French King Henry the Fourth, having made a general Establishment all over France, of planting and propagating of Mulberry-trees, and Breeding of Silkworms, in order to set up and entertain a Silktrade there; and having prospered so well in that Defign, that in many parts of his Dominions great store of fuch Trees were raised, and Multitudes of Silk-works propagated, to the great benefit of the French people, for asmuch as it was a confiderable beginning to avoid the transport of several Millions abroad for buying of Silks, and withall an excellent means of well-imploying abundance of poor Orphans and Widows, and many old, lame, and other indigent and helplefs people; The present French King, hath lately revived and seconded that Undertaking, by giving express order, that it should be promoted by all possible means, and particularly in the Metropolis of that Kingdom, and round about it; and that for that end the whole way concerning that Work and Trade N

Trade should be fully and punctually communicated in Print; which hath also been executed by one Monsieur Isnard, in a Treatise published at Paris, in French, Intitled, Instructions for the Planting of White Mulberryes, the Breeding of Silkworms, and the Ordering of Silk in Paris, and the circumjacent Places. In which Book, the Method being represented, which that Great Prince Henry IV. used in establishing the said Work and Trade, together with the success thereof, and the advantages thence derived to his Subjects, the Author, from his own Experience, and long Practice, delivers (and seems to do it candidly) all what belongs in this business in four main heads. First, he teaches the Means of sowing, planting, and raising White Mulberryes (as the Foundation of Silkworks) shewing how many several wayes that may be done. secondly, The Breeding of Silkmorms, the choosing of good Eggs, and their hatching, as also the Feeding of the Worms, and preferving them from Sickness, and Curit g them of it, together with the way of making them spin to best advantage. Thirdly, The manner of winding their Silk from their Bottoms, adding the Scheme of the Instrument ferving for that purpose. Fourthly, The way of keeping Silkworms Eggs for the ensuing year.

I hrough the whole Book are scattered many not inconsiderable particulars, though perhaps known to most. The White Mulberry Tree, as it is in other qualities preferable to the Black, so this Author esteems it the best, not onely for the durableness of the wood, and its large extent of usefulness in Carpentry and Joyners work; but also for the fitness of its leaves (besi les their principal use for the food of Silkworms) to fatten Sheep, Goats, Cowes, and Hoggs, only by boyling and mingling them with Bran. The Berryes themselves he commends as very excellent to fatten Poultry, and to make them lay Eggs plentifully. In the Changes. Working, and Generation of this Infect, he is very curious to observe many things. Their Metamorphose, as is known, are four, whereof the form of the one hath no conformity with any of the rest. The first from an Egge (of the bigness of a Mustard-seed, and or a darkish Gray Colour, when good) to a Worm or Caterpillar, but of a domeflick, noble, and profitable kind; Black, when it first comes forth

forth, but growing white at last; having 24. feet, 8. on each fide of the body, and 4. besides, close to each fide of the head. During this form, they undergo constantly 4. Sicknesses, in which they cast their Skins, each sickness lasting about 4. days, wherein they feed not at all; but grow clearer, shorter, and The fecond from a Worm to an Aurelia or Chrysalis, having the shape of a small Plum, whereunto it is transformed after its spinning time is past; in which state it lyes shut up, in hot Countries, for 14. or 15. dayes; in more temperate ones, 18. or 20. without any Food or Air, known to us. During which time this Infest leaves two Coats, both that of a Werm, whence 'tis changed into an Aurelia, and that of an Aurelia, whence it becomes a Papilio or Butterfly, in the Theca or Case. The third is, from an Aurelia to a Butterfly, coming out of the Theca with a head, leggs, and horns; for which passage it makes way by a whitish water, it casts upon the Silk, which moistning, and thereby in a manner putrefying it, the new creature thrusts out its head through the sharp end of the Case, by a Hole as big as its self. There is found no Excrement in the Case, but the two Skins onely, just now mentioned.

Before they begin to spin, and about the latter end of their feeding, they must, saith the Author, be often changed, and have Air enough, by opening the Windows of the Room, they are in, if it be not too ill Weather; else, saith he, the Silk that is in their Belly, will cause so extrordinary a heat in them, that it burns their gutts, and sometimes bursts them; and the same (being a substance that resembleth Gum or Burgundy Pitch)

will putrefy and turn into a yellowish matter.

He maketh the best marks of their maturity for spinning to be, when they begin to quit their white Colour, and their green and yellow Circles, and grow of the Colour of Flesh, especially upon the tail; having a kind of consistent softeness, showing that they have something substantial in their Stomachs.

As for their Working, he gives this account of it, that the first day they make only a Webb; the second, they form in this Webb their Cases, and cover themselves all over with Silk; the third day, they are no longer seen, and the dayes following they thicken their Cases, alwayes by one end or thread, which they

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never break off, themselves. This, he affirms, they put out with so much quickness, and draw it so subtle and so long, that, without an Hyperbole, the end or thread of every Case may have two Leagues in length. He advertiseth, that they must be by no means interrupted in their work, to the end, that all the Silk, they have in their bellyes, may come out.

Some eight dayes after they have finished their Work, as many of the best Cases, as are to serve for seed, viz. the first done, the hardest, the reddest and best coloured, must be chosen, and put a-part; and all diligence is to be used to winde off the filk with as much speed, as may be, especially if the Worms have

nimbly dispatched their work.

Here he spends a good part of his Book, in giving very particular Instructions, concerning the way of winding off the silk, setting also down the form of the Oven and Instruments necessary for that work, which is the painfullest and nicest of all the rest.

Touching their Generation, he prescribeth that there be choien as many male as female. Cases (which are discerned by this, that the males are more pointed at both ends of the Cases, and the females more obtuse on the ends, and bigger bellyed) and that care be had, that no Cases be taken, but such wherein the Worms are heard rolling; which done, and they being come forth in the form of Butterflyes, having four wings, fix feet, two horns, and two very black eyes, and put in a convenient place, the males fluttering with their wings, will joyn and couple with the females, after that these have first purged themselves of a kind of reddish humour by the fundament: in which posture they are to be left from Morning (which is the ordinary time of their coming forth) till evening, and then the females are to be gently pulled away, whereupon they will lay their eggs, ha= ving first let fall by the Fundament another humour, esteemed to proceed from the feed of the males; but the males are then thrown away as useless. He advertiseth, that if they be coupled longer then 9. or 10. hours, (which they will be, and that sometimes for 24 hours together, if they be let alone) either the female will receive very great hurt by it, or much feed will remain in her belly.

The

The feed at first coming out is very white, but within a day it become greenish, then red, at last by little and little gray, which colour it retains alwaies, the most coloured of an obscure gray, being the best; those grains, which never quit their whiteness, having no fecundity in them.

Each female emits ordinarily some 300.grains, more or less, some of them not being able to render them all, and dying with them in their belly. One ounce of seed will require an

hundred pair of Cases, of as many Males as Females.

Care must be taken, that no Rats, Mice, Ants, or other Vermin, nor any Hens, or Birds, come neer the Seed, they being

very greedy to eat them.

This is the substance of what is contained in this French Author, published at Paris on purpose to promote the Making of Silk there, as well as it is practifed already in other parts of that Kingdom: which is represented here, to the end, that from this occasion the design, which the English Nation once did entertain of the increasing of Mulberry-trees, and the Breeding of Silk-worms, for the making of Silk within themselves, may be renewed, and that encouragement, given by King James of Glorious memory for that purpose (witness that Letter which he directed to the Lords Lieutenants of the several shires of England) and seconded by his Most Excellent Majesty, that now is, be made use of, for the honour of England and Virginia, and the increase of wealth to the people thereof: especially fince there is cause of hope, that a double Silk-harvest may be made in one Summer in Virginia, without hindring in the least the Tobacco-Trade of that Countrey.

Enquiries concerning Agriculture.

Whereas the Royal Society, in prosecuting the Improvements of Natural knowledg, have it in design, to collect Histories of Nature and Arts, and for that purpose have already, according to the several Inclinations and Studies of their Members, divided themselves into divers Committees, to execute the said design: Those Gentlemen, which do constitute the Committee for considering of Agriculture, and the History and Improvement thereof, have begun their work with drawing up certain Heads