



# Bodleian Libraries

UNIVERSITY OF OXFORD

This book is part of the collection held by the Bodleian Libraries and scanned by Google, Inc. for the Google Books Library Project.

For more information see:

<http://www.bodleian.ox.ac.uk/dbooks>



This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 2.0 UK: England & Wales (CC BY-NC-SA 2.0) licence.

## E R R A T A.

Page 28. *line* 13. for Dilutents, *read* Diluents.

52. *line* 7. for affects, *read* effects.

57. *line* 18. for consequently, *read* consequent

1574

THE  
USEFULNESS  
OF A  
KNOWLEDGE of PLANTS:

ILLUSTRATED

In various Instances, relating to MEDICINE,  
HUSBANDRY, ARTS, and COMMERCE.

WITH

The easy MEANS of INFORMATION.

---

By J. HILL, M. D.

---



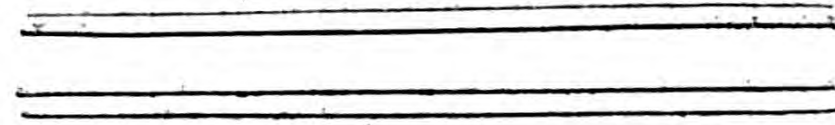
LONDON:

Printed for R. BALDWIN, in *Pater-noster-row*; and  
J. JACKSON, in *St. James's-Street*,  
M. DCC. LIX.

14.



*[Faint, illegible handwritten text, possibly bleed-through from the reverse side of the page.]*



T H E  
U S E F U L N E S S  
O F A  
K N O W L E D G E o f P L A N T S.

---

I N T R O D U C T I O N.

**T**HE frivolous pursuits in which some have engaged, under the name of Enquiries into NATURAL KNOWLEDGE, and which the incurious world have been content to distinguish by the same title, have brought that useful science to disgrace: The VIRTUOSO has been considered as a NATURALIST, and the FLORIST has been honoured with a name derived from BOTANY. If the credit of that study were  
B all,

all, it would be easy to pass over this in silence; but more than those who love the science are interested in the consequences: it is in many instances necessary to the convenience, and in some to the very being of mankind: the world therefore owes the subject more respect than to confound it with the amusements of an idle, though innocent curiosity.

THE knowledge of plants, in particular, is of so various and important use, that the Publick would perhaps do wisely to provide there should be always some persons who made it their immediate care. Such a knowledge may be useful in a high degree to MEDICINE, to AGRICULTURE, and to ARTS and COMMERCE; for plants are essentially concerned in all these: and certainly the greater advantages will be obtained in them, the more the objects are understood. May I be permitted to add a fourth great article in which this study has an high utility? a consideration indeed superior to them all: 'tis PIETY. He who can see the wonders of their form, and not adore the hand that made them, deserves  
not

not the character of a rational being ; nor does he much less degrade himself, who sees them, and is silent. In these, altho' the humblest of his works, we see the great Creator clearly and distinctly ; and while we view their growth, they raise the mind to heaven.

So far as MEDICINE depends on plants, a knowledge of them is essential equally to its SUCCESS in the present practice, and to its ADVANCEMENT by new and useful discoveries. Who shall depend upon the virtues of an herb, a root, or seed, when it is impossible he should know whether he really takes them ? or how shall the physician judge of their effects, who is not sure that they were given ? yet this uncertainty is too justly founded upon the present ignorance and inattention of the several ranks through whose hands all preparations must pass between the physician's prescription and the patient. We see in simple medicines of this kind the abuse is great ; doubtless in compounds it is greater : nor is the mischief confined even within these bounds. Tradition tells the mother of a family this herb or that will cure the disorders of her

B 2

children ;

children; but she is deceived when she makes the trial; for something else is sold under its name.

ROMAN WORMWOOD will cure indigestion; for it is an aromattick, warm, and cordial medicine; but no such herb is brought to market: they sell SEA WORMWOOD, a nauseous bitter, in its place, and the true medicine, though possessed of all its virtues, has thus lost much credit. All this time there is no plant more hardy than true ROMAN WORMWOOD, none more easily propagated in the open ground: but the physician overlooks the abuse; and long neglect has made the other an universal substitute.

MR. DAVIES, on the great success of the the BARDANA in the gout, took for three weeks, in vain, a nauseous infusion of the root of COMMON BLUNT-LEAV'D DOCK. This had been dug up to sell under the name of the SHARP-POINTED DOCK, famous in scorbutick cases; and by a second abuse was palmed upon the purchaser under this other name.

A few months since, the YOUNGER MR. DELAVAL acquainted me he had been  
 5 using



using the BLACK BRYONY ROOT externally for a fixed disorder in his side, by the prescription of DR. JAMES ; but without any effect. Enquiring into the symptoms which would have necessarily appeared upon the application of that medicine, I found he had felt nothing of them ; and on producing the root, it appeared he had been all the time using the WHITE BRYONY ; a plant, though idly called by the same generical term, yet altogether different in its virtues.

THE inner bark of the small shrub FRANGULA, is a cathartick equal to any of the foreign drugs, and is peculiarly excellent against obstinate cutaneous disorders. I ordered this to a person who had such a complaint ; and they sold him, in its name, the bark of COMMON ALDER, an astringent.

To a poor person perishing under a jaundice, I directed the DULCAMARA, a medicine superior to all others in the last stage of that disease ; and she received instead of it the COMMON NIGHTSHADE. This might have been of fatal consequence ; for the dose of the other is so large, that  
an

an equal quantity of this must needs have been destructive. Both these abuses rose from errors of the same kind: We call the Frangula, Black Alder; and the Dulcamara, Woody Nightshade. They were to blame who introduced this corruption of names; but that is too established to be altered: the care must now be to make them understood. The knowing plants distinctly is the immediate business of those who keep shops for the sale of them; and the meanest servant who is allowed to officiate, should be compelled also to learn their differences. These are instances in which my particular care in seeing the plants, saved the lives of those who were to have taken them: may we not justly think many are lost where the abuse is not discovered.

TENDERNESS for names prevents my mentioning some other instances: but they are needless, for the abuse is in a manner universal. WHITE MAIDENHAIR has virtues greater than all its kind, but FERN is sold constantly under that name; tho' the plant itself is common.

THE

THE true wild VALERIAN, eminently useful in nervous disorders, was no where to be had, before the fraud of selling a wrong kind was shewn : but now the shops are full of it ; physicians find its original excellence, and the drug has recovered its long-lost estimation.

THE roots of the common double-flowered PIONY, are sold for medicinal uses : whereas the physicians direct only those of the simple kind, called for distinction the Male Piony ; and experience shews these alone have the full virtue. Nay it is not long since that in the place of the common DROPWORT, an esculent root, the HEMLOCK DROPWORT was brought to one who wanted it ; the most fatal of all the English poisons.

WE see some plants of little efficacy, and others of different qualities from those intended, are sold under their several titles : nay sometimes such as are destructive. Under the name of BUGLE, an excellent sub-astringent and balsamick, they sell VIPERS BUGLOSS, a detergent of more power than

is generally known ; for the **BLACK HOAR-**  
**HOUND**, an anti-hysterick medicine, they sell  
the **WHITE HOARHOUND**, a pectoral ; for  
**LITTLECELENDINE**, useful against the piles,  
**GREAT CELENDINE**, good in disorders of  
the eyes ; and for the true **BLACK HELLE-**  
**BORE**, famous for many virtues, and no  
harsh medicine, they sell always the **Green-**  
**flowered BASTARD HELLEBORE**, or the  
**GREAT SETTERWORT** ; giving to infants,  
a violent medicine inwardly, whose proper  
use is externally for cattle.

By this fault the success of medicine, so  
far as it depends on plants, is rendered pre-  
carious ; and from the same cause improve-  
ment in that branch is become impossible.  
In England the roots of **GOLDEN ROD**  
have been found excellent against the gra-  
vel ; and those of the **LONG CYPERUS**, a  
cure for dropsies, in the stages wherein  
that desperate disease is curable : but tho'  
this knowledge comes upon fair authority,  
how shall it be confirmed ? He who shall  
attempt to try the virtues of these roots,  
will probably find some other thing sold in  
their place ; and it will be supposed they  
have

have not the virtue which has been attributed to them, because that root has not the same which ignorance or fraud has substituted in their stead.

FROM the savages of North America we have heard, that the root of MOUNTAIN AVENS will cure agues, in the manner of the bark; and probably this is true: for the same virtue has been attributed by many writers to the COMMON AVENS of our hedges. Perhaps it lost this credit unfairly, by some other root being sold for it: but where is the chance that it now should be restored? From the same quarter of the world we receive intelligence of a LOBELIA, distinguished by a peculiar quality in the cure of the venereal disease; and that the COLLINSONIA, a plant some years since received into our Gardens, and named from one who does great honour to this study, possesses virtues for the relief of the disorders of pregnant women superior to all other remedies.

THESE several plants we may raise in any quantities; and there is fair ground

C

to

to hope the art of healing may be greatly improved by them : but they must first be known ; and these abuses must be removed before 'tis possible we should enjoy the benefit. The BARK itself came to our knowledge the same way ; and we want other Medicines of such Power : America may produce them ; indeed there appears reason to believe it does : but unless the knowledge of that part of nature, whence they are obtained, be more regarded, there is little chance of our receiving the full benefit.

IF from medicine we turn our eyes to AGRICULTURE, the prospect is the same : great advantages are in our reach ; but if we neglect to understand the subjects, we shall lose them.

ALL know how lately we are become acquainted in England with what are called the ARTIFICIAL GRASSES, plants raised by tillage for the food of Cattle ; nor is there any one who disputes the vast advantage our husbandry has received from them. The number we have of these at present, tho' much

much larger than was known to our forefathers, is yet very limited, and the great benefit wou'd be variety. It will be easy to add, where so much has been discovered ; and to apply to Britain what Linnæus has advanced in Sweden.

NATURE has not confined this source within narrow bounds : it is our ignorance alone which makes it seem so. We find that even in kingdoms farther north than ours, the peasants have introduced many plants yet unknown to our farmers ; and there are wild about our hedges others which might be cultivated to a vast advantage. The YELLOW MEDICK WITH WREATHED PODS, which grows neglected on our waste grounds, is the new plant now cultivated so successfully in Sweden : the farmers, indeed the whole country, are enriched by it, and the character under which it stands recorded in their publick acts is *Omnium omnino præstantissimum pabulum*, ALTOGETHER THE MOST EXCELLENT OF ALL FOOD FOR CATTLE. There is no disputing their testimony, who have so much experience, nor is there any reason

C 2 why

why we should not share the benefit in Britain.

THE KIDNEY VETCH, and LADIES MANTLE, eminent for the nourishment they afford; the first to sheep particularly, the other equally to those creatures and to cows; are wild in gravel-pits, and by road sides: but they are unknown in our pastures, unless by accident, and then unregarded; while they are both ready to grow from seed scattered among the grass of hilly and barren closes; encreasing the quantity of food tenfold; and improving it in the same proportion.

THE CHICHLING VETCH, which rises in our damp thickets, is capable of giving the same benefit to wet marshy lands; perhaps even to bogs: but no farmer knows it. Melilot, though not regarded for this purpose, wou'd, in the same degree, enrich an open pasture; and the BURR REED, of our ditches, might fill the wet moors with food for our horned cattle, for no plant is so readily eaten by oxen; nor is there any one more wholesome.

AMONG



AMONG the articles useful in the arts, and objects of our commerce, it is not conceived what benefit might arise from a more perfect knowledge of their nature. Many of the most considerable are native of our own country ; tho' neglected here, and sought at a large price abroad : and we have others which might supply the place of some that are imported, perhaps to better purpose. To instance only among those subservient to dying.

THE French exceed us in their BLACK for cloths: and from many circumstances there is reason to believe, they owe the advantage to a wild plant, as common here as it can be with them ; it is the LYCOPUS, or WATER HOARHOUND : it has been early said, tho' now neglected, that this plant yielded a peculiar and distinguished black : and such limited experiments as I have had opportunity to make, confirm it. 'Tis certain the French gather this herb carefully, which we suffer to perish useless ; nor is there any other purpose known, to which they can apply it.

WE

WE bring Canary weed, a dry brown moss from that remote country, to use in our red colours : but we have rocks and barren hills at home covered with a moss of like nature ; and as it should seem of many times its value.

IN Sweden red is dy'd with the roots of SQUINANCY WORT, yellow with the bark of BUCKTHORN and BLACK ALDER ; and red with the SAW-WORT as we do yellow with the Safflower ; little unlike the other but in colour. All these are weeds, or wild hedge-shrubs with us : and why should not every one have a fair trial ? Perhaps the Society for the encouragement of Arts and Commerce, the best ever instituted in our country, may raise the spirit of this improvement by their premiums : but who shall assure the industrious mechanic that he has the right plants ? 'tis ten to one against him, wheresoever he attempts to buy them.

THAT the Sick are frequently defrauded of their cure, and perhaps sometimes destroyed by the abuses of those who deal in herbs, is most certain. But how shall they  
 who

who sell them be instructed better? or who shall shew the former what that MEDIC is; or what those other plants he is advised to cultivate? Where shall the dyer learn what is the true SAW-WORT, or who shall tell him the distinction between BUCKTHORN and BLACK ALDER; the very berries of which last shrub, are often sold for those of the other, even to the apothecaries.

GREAT as the disadvantages and mischiefs are which arise from the present want of information; the remedy is easy. Galen prescribed it in his time, when he saw the same necessity. It is the “teaching those who are concerned; not by “slight words, or vague representations, but “by the plants themselves; raised in some “small spot for that single purpose.” The learned may study them in books; but there is none so low in mind, who would not know them by the things themselves, presented growing to his eye, and explained upon the spot before him.

THIS spot should be planted with every herb useful in medicine, in the arts, or husbandry; and should be open always, free of expence;

expeuce, and to all people: and there should be some person present to shew what was desired to be seen, and to explain what was necessary to be known.

FROM a spot thus planted, and thus calculated for plain utility, science need not be banished; nor indeed ought: because upon its principles alone, are established those absolute distinctions which prove the error or the fraud of common practice; and which would render all mistake, and future deception, equally impossible.

THE plants raised for this service, would appear as conspicuous to the common eye, when disposed in the regular classes of the modern botany, as any other way; and to the student they would be much more distinct, and plain in all their differences. Whatever could be done by a classical distribution of the shrubs and flowers in more extensive plantations, may be executed even with these humbler kinds; and the purposes at once of the student and the publick, fully answered.

PLANTS would be known with certainty, from seeing them so disposed, and hearing them clearly and usefully explained. Great care should be taken to shew distinctly the different kinds which ignorant custom, or inconsiderate writers, have called by the same general name : there should be shewn together, with each plant, what other species were most like it ; and there might be added always in some near border, the thing usually sold under its name. This would be fixing the whole subject upon the memory, even of the unlearned.

THE nature and qualities of plants might here be pointed out in presence of the objects ; and their value shewn, not only so far as is known, but in those farther advantages which might reasonably be expected from them. The garden would be a kind of living herbal ; in which it might be easy to explain, in a distinct order, what each plant was, whence it was brought, and how distinguished from all others ; what virtues it possessed, and for what services it was proper. A lesson too short to load the memory ; and too regular to be misunderstood. Those who studied the nature of

D

vege-

vegetation for the assistance of the arts of culture, might there see a vast variety of plants in every season, subjected to all rational experiments ; manures of every kind might be experienced fairly ; and the arts, the means, and objects of improvement in our husbandry, all shewn at once. The curious would have the advantage of seeing, in a single view, the various useful products of the several parts of Europe : and even more nice enquiries might be here turned to use : for it is not impossible that in many cases, what one plant does well, another species of the same kind may effect yet better. Why should we suppose that he who, probably by accident, made the discovery of the use of any plant, has always chanced to try the most effectual kind.

A LITTLE spot would answer all these purposes ; and such a garden might be supported at a small expence. He wishes he had power to give the ground ; who would not think it much to give his best endeavours for this publick service.

F I N I S.

