



Woods of Birch Elliptical  
Historical Department Area





Painting done by  
Harriet Quaker Miller  
in 1850

Botanical Description

A. N. D.

Medical, Culinary & other Uses of the  
Plants in the first Volume

OF MY

American Herbarium

Principally Compiled from the latest &  
most approved Writers on Botany  
and

MATERIA MEDICA

By

Stephen W. Williams

Fellow of the Massachusetts Medical Society & Corresponding  
Member of the Physico Medical Society New York.

Book science is her eye a hand

1817





Robert John Thornton M.S.





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N.B. The first column of figures refers to the plants in my American Herbarium, the second to the description of these plants in this volume.

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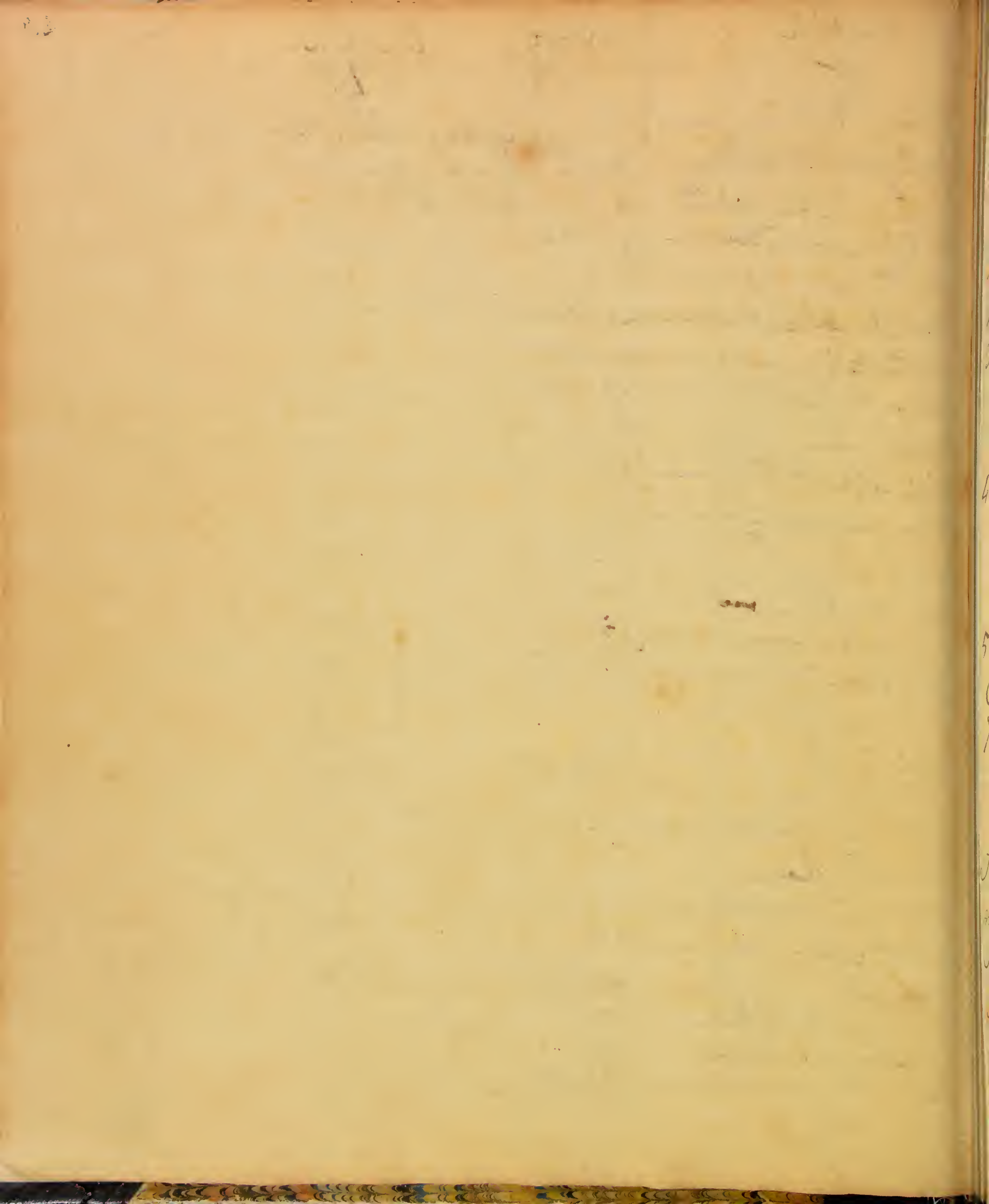
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From Rosack's Hortus Elginensis

Organs of Fructification.

1. Calyx, or flower cup.

2. Corolla, or blossom.

3. Stamen, or male organ; consisting, 1. Filamentum, or filament.  
2. Anthera, which contains,  
3. Pollen, or fecundating dust.

4. Pistillum, or female organ; consisting 1. Germin, containing the embryo of the  
future plant

2. Stylis, or tube leading to the Germin

3. Stigma, the top or aperture of the stylis

5. Pericarpium, or seed vessel.

6. Semina, or seeds.

7. Receptaculum, or receptacle upon which the preceding parts are  
supported.

Such flowers as have only stamina, are denominated Floris masculi, or  
male flowers.

Such as have only pistilla, Floris foeminae, or female flowers.

Such as have both stamina & pistilla in the same flower, Floris  
hermaphroditi, hermaphrodite flowers.

### Subdivisions of the Calyx

Every calyx is either Monophyllous consisting of one leaf or Polyphyllous more than one leaf. Calyxes are:

1. Perianth.
2. Involucre.
3. spathe.
4. Glume.
5. Ament.
6. Calyptra.
7. Uvula.

### Subdivisions of the Corol.

Monopetalous or one petalled corols are:

1. Bell-form.
2. Funnel-form.
3. Salver-form.
4. Wheel-form.
5. Labiate.

Polypetalous or more than one petalled are:

1. Cruciform.
2. Caryophyllous.
3. Liliaceous.
4. Rosaceous.
5. Papilionaceous.

If the corol agrees with the descriptions of none of the above, it is Anomalous.

### Subdivisions of the Stamens.

1. Anther.
2. Pollen.
3. Filament.

### Subdivisions of the Pistil.

1. Stigma.
2. Germ.
3. Style.

### Subdivisions of the Pericarp.

1. Piliqua.
2. Legume.
3. Capsule.

4. Drupe.
5. Pome.
6. Berry.
7. Siliqua.

### Subdivisions of the Seed.

1. Ovule.
2. Cotyledons.
3. Teguments.
4. Hilum.

### Subdivisions of the Receptacle.

1. Propus.
2. Common.
3. Rachis.
4. Columella.
5. Spadix.

### General Divisions of Flowers.

1. Single.
2. Aggregate.
3. Compound.

### Infloriscences.

Of the manner in which flowers are situated upon plants.

1. Whorl.
2. Raceme.
3. Panicle.
4. Thyse.
5. Spike.
6. Umbel.
7. Cyme.
8. Corymb.
9. Fascicle.
10. Head.

### Roots & Herbages.

The ~~sub~~ substance of roots & herbages consists of:

1. Cuticle
2. Cellular Tissue
3. Bark.
4. Camb.
5. Wood.
6. Pith.

Roots are the descending parts of vegetables,  
 & are Annual, Biennial, or Perennial. They  
 are of seven kinds.

1. Branching.
2. Fibrous.
3. Creeping.
4. Shindle
5. Tuberos, whether knobbed, oval, or fasci-  
 clid.
6. Bulbous, whether solid, coated, or scaly.
7. Granulated, whether moniliform, or den-  
 tate.

Herbage is all the plant except the root  
 & caespitiation. It includes the Stems,

Leaves, & Appendages  
Stems are:

1. Ridge.
2. Culm.
3. Scape
4. Peduncle
5. Petiole
6. Frond.
7. Stipe.

Leaves are Evergreen or Deciduous.

Simple leaves are

1. Orbicular.
2. Ovate
3. Oval.
4. Oblong.
5. Obovate
6. Cordate
7. Obcordate.
8. Kidney-form.
9. Lanceolate
10. Linear
11. Awl-form
12. Awl-pointed

13. Arrow-form.
14. Halberd-form.
15. Guitar-form.
16. Bobid.
17. Palmate.
18. Pedate
19. Simate.
20. Pinnatifid.
21. Lynate.
22. Ruminate
23. Serrate.
24. Toothed.
25. Comate.
26. Imbricate.
27. Pectate.
28. Obtuse.
29. Acute.

Compound leaves are:

1. Ternate.
2. Biternate
3. Triternate.
4. Pinnate.
5. Bipinnate.
6. Tripinnate.
7. Intersuspectly pinnate.

Surface of leaves are:

1. Glauy.
2. Dorsy.
3. Silky
4. Borthy.
5. Liliate.
6. Nervid.
7. Venid.

Positions of leaves are

1. Decurrent.
2. Claspig.
3. Sheathed.
4. Perfoliate
5. Comate
6. Petate
7. Opposite
8. Whorled.
9. Imbricate
10. Fascicled
11. Radical.

Appendages

1. Stipule
2. Boact.
3. Thorn.
4. Prickle
5. Sting.
6. Gland.
7. Andral

# The Sexual System of Linnæus

Consists of 1. Clases.

2. Orders, or subdivisions of the clases.

3. Genera, or families composing the orders.

4. Species, or individuals of the families; &

5. Varieties, which are accidental changes induced by climate, soil, culture, &c.

## 1. Clases.

The first eleven clases are formed upon the number of stamens, viz.

- |                 |  |
|-----------------|--|
| 1. Monandria    | having one stamen  |
| 2. Diandria     | two stamens  |
| 3. Triandria    | three do.  |
| 4. Tetandria    | four do.   |
| 5. Pentandria   | five do.   |
| 6. Hexandria    | six do.  |
| 7. Heptandria   | seven do.  |
| 8. Octandria    | eight do.  |
| 9. Enneandria   | nine do.   |
| 10. Decandria   | ten do.  |
| 11. Dodecandria | eleven do. from twelve to nineteen do. in <sup>clusive</sup> |

The next two clases are distinguished by the situation as well as the number of stamens.

12. Icosandria, having twenty stamens & upward, but situated upon the receptacle. calyx & by this circumstance distinguished from the next class.

13. Polyandria, having above twenty stamens, & upward but situated upon the receptacle.

The two following clases are distinguished by the relative length as well as the number of stamens viz.

- 4. *Dyclinamia*, having four stamina, viz. <sup>two</sup> long & two short.
- 5. *Tetradynamia*, having six stamina, viz. four long, two short.

The next three classes are formed upon the union of the filaments, viz.

- 6. *Monadelphica*, having the filaments united into one parcel or brotherhood
- 7. *Diadelphica*, having the filaments divided into two brotherhoods.
- 8. *Polycliphica*. into many brotherhoods
- 9. *Stygenesia*, having the antherae united into a tube.
- 20. *Gynandria*, having the stamina & pistillum united & supported by the same foot stalk proceeding from the receptacle.

21. *Monoccia*. - male flowers & female flowers separated, but upon the same plant.

22. *Dioccia*, male & female flowers separated & upon different plants.

23. *Polygamia*, having male flowers  
 female do  
 hermaphroditic do } Upon the same or different plants.

24. *Cryptogamia*, the organs of fructification very small, & obscure to the naked eye.

11  
 2. Orders.

The orders are formed in the first thirteen classes, upon the number of pistilla, or female organs.

- 1. *Monogynia*, - having one pistillum
- 2. *Digynia* two pistilla
- 3. *Trigynia* three do
- 4. *Tetragynia* four do
- 5. *Pentagynia* five do
- 6. *Hexagynia* six do
- 7. *Heptagynia* seven do

8. Decagynia . . . ten pistilla  
 9. Dodecagynia - twelve do  
 10. Polygynia - many do

In the 14<sup>th</sup> clas. the orders are formed upon the seed being naked in the calyx, or contained in a capsule:

1. Gymnosperma, naked seed.

2. Angiosperma, enclosed seed.

In the 15<sup>th</sup> clas. the orders are formed upon the seed-vesel, or pod:

1. Siliculosa, small podded, as the Shepherd's purse.

2. Siliquosa, long podded, as the radish.

In the 16<sup>th</sup>, 17<sup>th</sup> & 18<sup>th</sup> upon the number of stamina. & are expressed as the first thirteen clas.

In the 19<sup>th</sup> clas are six orders, viz.

1. Polygamia Aequalis, i.e. the florets are all equal & fertile.

2. ——— Superflua. Homophrodite in the centre or disc, & fertile; & female florets in the radius, or circumference, which are also fertile, & therefore superfluous.

3. ——— Frustranea. Homophrodite & fertile florets in the disc but barren florets in the radius.

4. ——— Necessaria. Homophrodite florets in the disc, but their florets female barren. The females in the circumference being fertile, are therefore necessary for the propagation of the plant.

5. ——— Segregata. The florets separated by partial calyxes, as well as contained in a common calyx.

6. Monogamia, i.e. composed of simple, not compound flowers, as in the preceding orders, e.g. violet & lobelia.

The orders of the 20<sup>th</sup> clas are taken from the number of stamina.

The orders of the 21<sup>st</sup> & 22<sup>nd</sup> clas, are formed from the preceding clas

Monocia Monandria  
—— Dianthia  
—— Triandria &c. &c.

29.  
Diocia Monoecia  
—— Diandria  
—— Triandria &c. &c.

The orders of the 23<sup>d</sup> class are formed upon the male, female, & hermaphrodite flowers being contained upon one, two, or three plants; hence denominated

Polygamia Monoecia.  
—— Diocia.  
—— Trioecia.

The 24<sup>th</sup> class consists of four orders:

Filices, or Ferns.  
Musci, or Mosses.  
Algae, including sea weeds, &  
Fungi, including mushrooms, &c.

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Class 2<sup>nd</sup> Diandria.

Order Monogynia.

Lycopus Europaeus. Water horehound, horehound, Gypsos-  
wort, vulgo Water Agrimony.

Generic Description. Calyx four cleft; one segment notched at the end; stamens distant; seed four blunt.

Specific Description. Leaves indented, serrated, a little hairy. Stem with four corners, & four hollow sides, hairyish. Blossom whitish with a tinge of purple, hairyish within, upper segments slightly notched, lower ones with purplish spots at the inside; between the stamens frequently two or three shorter filaments, generally without anthers. Germen on a yellow glandular receptacle. Flowers several together on the bosom of the upper leaves. Branches opposite, rising from the bosom of the leaves. In sandy ground on the banks of streams & ponds. Blof. July & Sept.

Use. (This plant is excellent in suppressing active hemorrhage. A strong decoction of it is useful in checking epistaxis, & in preventing or abating the violence of menorrhagia, haemoptysis, & all internal bleeding. Where a strong decoction of it fails in epistaxis, chewing the plant, & plugging up the nostril with it has been found of service. This astringent property of the plant has been unnoticed by botanists or materia medica writers. It however, deserves honorable notice in the class of remedies. S. W. Williams.)

It dyes black & has been used with linens & clothes. The juice gives a permanent colour to linn. wool, & silk, which will not wash out. Travelling gypsies use it to stain their faces. Sheep & goats eat it; cows & horses refuse it.

Class 4<sup>th</sup> Tetrandria.

Tetrandria, Gynnia

Cuscuta Americana. C. epurata. C. epurica. Ang. Dodder.

Gen. Desc. Calyx four or five cleft; blossom one petal; caps two celled, not round

Seeds in pairs.  
Spec. Desc. Flowers sitting. four cleft, whitish. Leaves round. A parasitical plant, without seed lobes. In hops, nettles, leath &c. Blof. July & August.

Use. This is a very curious & singular plant, which will not grow in the ground. It was formerly celebrated as a cathartic, but it is a very languid one, & now out of use. Hill

Class Pentandria.

Order Monogynia.

Cynoglossum. C. officinale. C. Vulgare. Ray. Great hounds tongue.

Gen. Desc. Blof. funnel shaped, mouth closed by projecting valves; nuts 4. de pressed, fixed to the style by the inner side only, imperforated

Spec. Desc. Stamens shorter than the Blofoms. Leaves broad strap-leaf shaped, nit ting cottony; the whole plant downy; cal. segments oblong, egg shaped. Blof. one valve fringed. Road sides, rubbish. Blof. June.

Use. It is excellent, & somewhat emolaginous, especially the root, which for medicinal purposes is prepared to the leaves. It is reported to be deliterious, & the dingy hard appearance of the leaves, peculiar to shrubs of the narcotic kind, favours the opinion; nor are facts wanting to confirm it. A whole family eating of it by mistake for comfrey severely experienced its ill effects. Experi- menter has not yet determined how far it may be employed as a medicine.

Dr. Hulse is said to have prescribed a decoction of roots internally, together with a poultice of them to scrophulous tumours with safety & advantage.

For its use in coughs, hemophysis, diarrhoea dysenterica see Gronkwin Bin. de

Cynoglossum & Woodrills, Both the root & the leaves have been suspected to possess narcotic effects properties, but some will not admit the fact; it was formerly kept in the shops as a pectoral & narcotic, but it is dis- carded from the present practice. Mr. Ray says, however, that Dr. Hulse used a decoction of the roots inwardly; & cataplasms of them outwardly in strumous & scrophulous cases. Its scent is very disagreeable & greatly

resembles that of mice. Withering: Rats & mice will flee from houses & barns when  
this plant is kept. Europ. Map: Goats eat it; cows, horses, sheep & swine refuse it.

Pentand. Pentagynus Moqy.

Symphytum. S. officinale. S. consolida Major. S. vulgare. Ang. Comfrey. common

Gen. Desc. Blos. funnel shaped, bellied towards the top, mouth closed by hollow  
radiate valves, having an open hole on the outside near the border, nuts 4, perforated.

Spec. Desc. Leaves egg shaped, decurrent. cal. close Blos. yellow-white; tube as long  
as the calyx; valves spear shaped; flat, covering the anthers, edge studded with small shi-  
ving glands. River banks, wet ditches. Blos. May. There is a variety with red flowers.

Use. The root of this plant is a powerful affluent, good in the fluxus albus. Hill  
The root is very succilaginous, & being rather inferior to the althaea, & more easily  
obtained may be usefully substituted in its place, for the general purpose of an  
emollient & demulcent. Woodville Dr. Cullen says there is no reason why, while

succilaginous matters are obtained in our hot Symphytum should be omitted. It may  
be of service, as alleged in diarrhoeas & dysenteries. The roots are glutinous & some-  
times a decoction of them is used by dyers to extract the colouring matter  
of gum lac. The leaves give a grateful flavour to cakes & panada; & the

stems & leaves are excellent when boiled. The particles of the pollen ap-  
pear in the microscope like two globules united together. Cows & sheep eat it; hor-  
ses, goats & swine refuse it. Lin.

Pentand. Monogynus.

Borago. B. officinalis. Borago latifolium. Ang. Common Borage.

Gen. Desc. Blos. wheel shaped, mouth closed with rays, nuts 4, imperforated.

Spec. Desc. Leaves alternate, egg-spear shaped, rough, as well as the stem, with white  
bristly hairs. Blos. blue, white, or flesh colour, segments spear shaped, anthers  
black, filaments above the insertion of the anthers, cylindrical, dark blue,  
below, thick, brown, glandular. Walk. outbirk. Blos. June, August

Use. The flowers have been found cordial, & hence formerly much recommended

in melancholia, & other affections of the nervous system. But as they possess neither warmth, pungency nor fragrance, & as no saline matter appears to be contained in the flowers, any advantage supposed to be derived from a crinous infusion of them, can only be attributed to the menstruum. The leaves abound with a satic juice, which, on being boiled a sufficient time forms crystals of oxalic acid. Hence the plant may be inferred to possess refrigerating & aperient virtues. (Woodville) The juice of this plant affords true oxalic acid. It is now seldom used internally, except as an ingredient in cool tankard for summer drinking; though the young & tender leaves are good in salads, or as a pot herb. (Wethering.) A horse eat it! (Dr Stokes.) #

Pentand. Monogyn.

Verbascum. V. Thapsus. V. Album. Thapsus barbatus. Eng. Great white mullein.

High taper. Cow lung-wort. Lady's foot glove.

Gen. Desc. Blsp. Wheel shaped, nearly regular; caps two-celled, two-valved, many seeded.

Spec. Desc. Leaves decurrent, cottony on both sides. Stem unbranched from four to six feet high. Summit globular. Flowers in a long terminating spike. Worson yellow, rarely white.

Dry banks, chalky or gravelly soil. Blsp. July.

Use. The leaves have an herbaceous, bittering substringent taste, but peculiar smell; on being chewed they discover a mucilaginous quality, & hence they are recommended as emollients both internally & externally; in the way of fomentation & cataplasms they are said to be an useful application to hemorrhoids, tumours, & also for promoting the resolution or suppuration of glandular indurations; it has been recommended internally for catarrhal coughs & diarrhoeas; Dr Home found it successful only in the latter. (Woodville) In diminishing, or stopping fine diarrhoeas of old standing, or easing the pains of the intestines, Dr. Home found it useful; for the former purpose he advises a decoction, two ounces to a quart, of which he gave a quart every day, four ounces every three hours. (Woodville) It is used with advantage as an injection in tenesmus, & is often applied externally to the piles. (Chin. Exp.) The flowers have also been used

icably medicinally, being supposed to possess anodyne & pectoral virtues; but  
is probable that no part of the plant deserves much consideration as a medicine  
Woodville) The seed of this plant are said to intoxicate or stupefy fish so that they refuse  
themselves to be taken out of the water by hand (Perkins) In the pulmonary com-  
plaints of cattle, it has been found of great service, & is used for consumptive cows  
Norway. The down serves for tinder. Horses, cows, sheep, goats & swine refuse it. (Woodville)  
Pentand. Monogyn.

Datura. D. Stramonium. Solanum Foetidum. Fatula. Arg. Thorn Apple.  
Desc. Blsp. funnel shaped, plaited; cal. tubular, angular, falling off with

Blsp. caps four valved.  
Leaves egg-shaped, smooth, deeply in-  
Seed vessel thorny, upright, egg-shaped. Leaves egg-shaped, smooth, deeply in-  
Flowers large, white, sometimes purplish. A large, wide spreading plant, na-  
ive of America. Rubbish, dunghills. Blsp. July. August.

Use. An ointment prepared from the leaves gives ease in external inflammations  
Remedies. The Edinburgh College directs an extract to be prepared by evaporating  
the expressed juice of the leaves. This has been given with advantage in cases  
of convulsions, epilepsy, mania, especially that preceding child-birth (Woodville)  
of fourteen epileptic patients at Stockholm, eight were cured & five relieved  
Dr. Ophelin; the dose two to sixteen grains a day. This plant has been long

known as a powerful narcotic poison. Numerous instances are recorded of its  
deleterious effects, especially the seed, which taken internally have produced

adup. tumors, swelling, itching, inflammation (Med. Com. & Woodville) All parts  
of the plant possess a narcotic power, but the seed are the only part of whose fa-  
tal effects instances are recorded; their soporiferous & intoxicating qualities are  
well known in the East, & are said to have been frequently converted to the most  
wicked & dishonourable purposes (Vallis, Lindenscholke) By holding this plant  
to the nose for some time, or sleeping in a bed where the leaves are strewed, giddiness

is & stupor have been produced. - Stork Internally the leaves of stramonium have been used as an application to inflammatory tumours & Burns. Guard Smoking a few whiffs of the leaves or roots of the stramonium & swallowing the smoke & saliva has produced the most surprising effects in the cure of long continued Asthma's. C. W. Huleland informs us that he has found the tincture of the seed of thorn apples to be in many cases superior as a narcotic remedy to opium, as it neither heats nor causes costiveness; & that he had used it with all obstinate affections of the mind, & convulsive symptoms. Horses, cows, goats, & sheep refuse it.

Pentand. Monogyn.

Hyoscyamus. H. Nige. H. flavus. H. vulgaris. Ang. Henbane. Black Henbane  
Gen. Desc. Blossom funnel shaped, blunt, irregular. stem leaning; caps with a lid, two-celled; seed many. kidney shaped.  
Spec. Desc. Leaves embracing the stem, indented. Flowers sitting. Monospermous white, middle deep purple, border pale yellowish brown, veined with purple, anthers & style deep purple. The whole plant woolly & clammy with a strong peculiar odour. Village road-side, cubbin. Bloo. June, July.

Use. Henbane is a powerful narcotic poison, & many instances are recorded of its deleterious effects, from whence it appears that any part of the plant taken in sufficient quantity is capable of producing the most alarming & terrible symptoms (see in Phil. Transactions. Eng. vol. 40. p. 446 an account of the dreadful madness occasioned to nine persons from eating the root, attended with the remarkable circumstance that after their recovery, for some days all objects appeared bright red. A few seeds of the henbane have been known to deprive a man of the use of his reason & of his limbs. Lichtfoot. It is probable that the powerful qualities of this plant may under proper management be used with good effect in medicine. Daron Stork published cases of different diseases, cases in which extract prepared from the juice was found to be an efficacious remedy; such as internal spasms & convulsions, palpitations of the heart, mania, melancholy, epilepsy, inveterate headaches, haemoptysis. It has been found to produce sleep more powerfully than opium; & as it possesses a laxative quality may be useful where the astingency of opium renders the use of it liable to objection. Experience proves this medicine to be an useful an

lyne. Woodville) The leaves are said to have been applied with advantage es-37  
ually, in the way of poultice, to resolve schirrous tumours, & to remove some pains  
of the rheumatic kind. The smell of the herb is peculiar, & the bruised leaves  
emit an odour like that of tobacco. This is stronger if the leaves are burnt, & they  
burst with a deflagration resembling that of nitre, but to the taste they are mild  
& innocuous. It is poisonous to birds & dogs, but cows, goats, & swine are not af-  
fected by it. (Woodville) Scattered about a house it is said to drive away mice.  
The Edinburgh college orders the expressed juice to be evaporated to an extract which  
may, perhaps in that state, be advantageously joined with opium if cotive  
is to be avoided. The dose is from half a scruple to half a dram.

Solanum. S. Dulcamara. S. scandens glycy-picos. Song. Woody nightshade, Bitter Sweet  
Gen. Desc. Bbf. Whel. shaped. Anthers a little united, two holes at the top of each  
Berry two celled.  
Spec. Desc. Stems smooth, rather shrub-like, lig. cap. twining. Leaves egg-shaped, the  
upper sometimes halberd shaped. Flowers in tuft like bunches, purple, with two  
green spots at the base of each segment, sometimes flesh colour, rarely white. Berries  
two celled, scarlet. Mount breaks, hedges, sides of ditches. Bloss. June, July.  
Use. The roots & stalks, upon being chewed, first cause a sensation of bitterness,  
which is soon followed by a considerable degree of sweetness; hence the name  
of bitter sweet. The berries have not yet been applied to the purposes of  
medicine, but they seem to act powerfully upon the primæ viæ, in ex-  
citing violent vomiting & purging. Thirty were given to a dog, which soon  
became mad, & died in three hours, when, on his being opened, the berries were  
found in his stomach unchanged by digestion. The stipites or young twigs  
are directed for use in the Edinb. Pharm either fresh or dried, allowance be-  
ing made for the diminution of its powers in drying. They should be gathered  
in September. Murray says it promotes all the secretions, in which Ber-  
ries seem to coincide. Haller observes that it partakes of the acrid power

power of the nightshade joined to a resolvent, & a ponaceous quality. Linnaeus says  
it is useful in Acute rheumatism, inflammation, leues & suppurations of the  
Lochia. In Althma it was found very efficacious by Dr. Hall & Dr. Hallenberg has  
advised it in ischiatric & rheumatic pains, jaundice, scurvy, & lues venerea. Lin-  
naeus directs a pint of boiling water to be poured upon two drams of the stalks  
dried & dried; after standing half an hour it must be boiled fifteen minutes.  
The dose is two tea cups full, or more morning & evening. The stalks may be gathered  
early in the spring, but better in autumn as the sensible qualities are then stron-  
gest. Med. Comm. The root has the smell of the potatoe. (Dr. Beddoes)

Solanum Nigrum. Gen. Desc. Above. # Common Nightshade. Garden Nightshade  
Spec. Desc. Stem without prickles, herbaceous, branched, angular. Leaves egg-shaped  
toothed, angular. Bunches nodding, pointing two ways. Fruit stalks lateral, mid-  
way between the leaves. Blossoms white. Berries black. This plant is subject to  
great varieties, with us it is herbaceous, in southern countries woody & very hard.  
Rubbish, dunghills, Kitchen gardens.

Use. The leaves infused in boiling water, & taken at bed-time, from one to three  
grains, occasion a copious respiration, increase the secretion by the kidneys,  
& generally purge more or less the following day. The leaves applied exte-  
rally abate inflammation & assuage pain. The leaves are poisonous & the  
berry equally with the leaf, & to poultry they are immediately fatal. Ex-  
ternally it has been found useful as a discutient & anodyne in various  
affections of the skin, tumefactions of the gland, ulcers & disorders of the  
eyes; with the Arabians it is a common application to burns & ulcers.  
Mr. Ray speaks highly of its effects in indurations of the breast. Mr.  
Gattaker has recommended in a publication on the subject, its internal  
use in old sores, wrophulous & cancerous ulcers, uterine eruptions & even  
in dropsis; one grain of the dried leaves, he says, infused in one ounce of  
water sometimes produced considerable effect; in a dose of two or three



ains it seldom failed to evacuate the first passages, or to increase  
ably the discharge by the skin, or by the kidneys; & not unfrequently occa-  
sioned head-ach, giddiness, dimness, & drowsiness. The flowers smell like musk

Impatiens. I. Noli-tangere. Pentand. Monogyn. Impatiens. Touch me not.

Per. Desc. Cal. two-leaved. Blp. five petal, irregular. Nectary hoodlike. Stem white  
ing; caps superior, one celled, opening with a jerk into five spiral valves.

Spec. Desc. Fruit stalk, many flowered, solitary. Leaves egg-shaped, pendulous  
& upright. Stem swollen at joints. Blp. yellow with red spots. Moist shady place  
Blp. July. August.

Ure. The whole plant is considerably acrid. Goats feed upon it; horses, cows  
sheep refuse it. (Withering)

Chenopodium Anthelminticum officinalis. Pentand. Digyn. Jerusalem oak. Worm seed.

Perennis in Pennsylvania; foliis ovata oblongis dentatis, racem. aphyllis  
Ure. Dr. Wilkins of Baltimore recommends the essential oil of chenopodium as one  
of the most powerful anthelmintics. He likewise observes that there is great reason

to believe that it may be extended to various disorders incident both to children &  
adults. It certainly promises fair to be useful as any other essential oil for hysteria, cho-

lera, convulsions, or palsy. The dose he recommends is about one drop & a half  
each year of the child's age, till nine drops are required, beyond which it may

probably be impudent to extend it for any age if the oil is genuine. The oil should  
be dropped on a lump of sugar, & grated into as much water as it will render highly

fragrant, taking care with young children not to make it too stimulating.  
This quantity should be given on an empty stomach, twice a day till half a dram  
or a dram is consumed, when a gentle purge of castor oil, or calomel & jalap should  
be administered. The appearance & qualities to be expected of genuine oil are:  
Of a light straw colour, possessing much of the odour of the plant, very fragrant

to the tongue & hermanent.

Boerhaave says. The seeds of this vegetable, which grows in Pennsylvania, have an agreeable pretty strong odour, & an aromatic taste; it is said to be much used in America against worms, especially against the lumbricoides. Chalmers who gives the description of it, affirms that with the powder of these seeds only is composed that anthelmintic electuary, so famous in North America.

Pentand. Monogyn.

Conium. C. maculatum. Cicuta major. Cicuta vulgaris. Frug. Umbellif. Common hemlock.

Gen. Desc. Involucrum going about half-way round of about three leaves. Fruit egg-shaped, bulging ribs compressed, waved before the fruit is ripe.  
Sp. Desc. Seed without prickles. Stem branched, smooth, shining, spotted & streaked with blackish purple. Involucel. one leaf divided into three & four. Segments at the edges white & membranous. Lower leaves dark green & shining. Outer petals largest. Flowers white. Hedges, orchards, dunghills, rubbish, & cultivated ground. Blof. June & July.

Use. This plant has a peculiar faint smell & fetid, & a slight aromatic & somewhat nauseous taste. That the plant is poisonous there can be no doubt, & numerous instances are recorded by various authors of its deleterious effects; but it seems probable from some circumstances, that it is less powerfully so than was first imagined. That the root does not possess any noxious power whatever, several recent instances of its being repeatedly & largely eaten with impunity have unequivocally been shown. Stad. Mr. Lane informed Mr. Curtis that from his own experience he was of opinion "the roots might be cultivated in gardens, & either eaten raw like celery, or boiled as parsnips & carrots." Vinegar has been found the most useful in obviating the effects of the poison of hemlock, & by macerating or boiling the plant in vinegar it becomes totally inert. For the principal symptoms produced by immoderate doses of hemlock see Heller. Morley &c. This was generally employed by the Greek & Arabian Physicians.

an external remedy for tumours, ulcers & cutaneous eruptions; 41  
was also thought to have the peculiar power "frangere stimulum vene-  
rum" et "incrementa membrorum et testium cohibere": which seems the more re-  
markable, as Storch, Bergius, & others recommend its internal use in complaints of  
contrary nature, & adduce proof of its aphrodisiacal power. Baron Storch  
brought it into repute as a medicine of extraordinary efficacy, & Bergius  
considers its virtus to be narcotica, resolvens, suppurativum promovens diuresi  
ca, & recommends its use in various disorders; other powers have condemned it,  
the value of this medicine seems still to be undetermined. It has been found  
that several disorders which have resisted other medicines, have yielded to hem-  
lock, & that some if not cancerous at least of that tendency, have been re-  
lieved by it. In chronic rheumatism, glandular swelling, &c. & in the chin-  
ough it is now generally employed. Externally the leaves of hemlock have  
been variously applied with advantage to ulcers, indurated tumours, & gangrenes.  
Dittus) Dr. Wethering recommends the powder of the leaves & prescribes it to the  
effect. He recommends the following method of preparation: Let the leaves  
about the end of June, when the plant is in flower. Pick off the little leaves  
throw away the leaf stalks. Dry these selected little leaves in a hot oven, or  
a tin clapping pan, or a pewter dish before the fire. Preserve them in  
bags made of strong brown paper, or powder them & keep the powder in  
glass vials in a glass, or something that will exclude the light; for the  
light soon dissipates the fine green colour, & with its colour the medicine loses  
its efficacy. From fifteen to twenty five grains of this powder may be  
taken twice or thrice a day. I have found it peculiarly useful in chronic  
rheumatism, & also in many of those diseases that are usually suppo-  
sed to arise from acrimony. Mrs. G. In Ireland cured a poor woman of a  
tumour in the breast by hemlock pills taken inwardly, with stupor of the  
same plant. H. B. Baron Storch used an extract from the fresh root in  
strong in cancerous & scrophulous complaints. - Lightfoot)

Cicuta. C. Maculat. C. viros. C. aquat. Ang. Long leaved water hemlock.  
Water cowbane.

Gen. Desc. Fruit nearly egg-shaped, ribbed.

Spec. Desc. Leaves winged; leaflets spear-shaped, in threes, serratures white at the point. Stem four feet high, reddish below. Fruit stalks, sheathed at the base. Styles upright, white, in the fruit straggling. Fruit compressed, even, lopped.

Petals yellow green. Pools. Blof. July. Aug.

Use. As an internal medicine this is universally superadded by the common humlock, but externally employed in the way of poultice it is said to afford relief in various fixed pains, especially those of the rheumatic & arthritic kind. In its dried state Bergius tells us it may be taken in considerable quantities without producing any bad effect; but the root when fresh, is extremely deleterious. The symptoms produced upon some children who ate of it for parsnip root, were intoxication, vertigo, great heat & pain in the stomach, convulsions & even epilepsy, distensions of the eyes, vomiting, or retching, discharge of blood from the ears, swelling of the abdomen, hiccup, spasm, &c. In a man, delirium with constant heat of the stomach, & an unextinguishable thirst, arose of long continuance, & followed by an erysipelatous tumour in the neck. The timely administration of an emetic is the only remedy. [Worth] It is one of the rankest of our vegetable poisons. Numerous instances are recorded of its fatality to the human species in a treatise upon it by Meffer, Haller &c. Early in the spring when it grows in the water, cows often eat it & are killed by it, but as the summer advances its scent becomes stronger, & warns them carefully to avoid it. But though it is a certain & fatal poison to horned cattle, goats devour it greedily & with impunity. Horses & sheep also eat it greedily. [Nothing]

*rosea*. *D. rotundifolia* <sup>Pentand. Pentagyn.</sup> *Ros. Solis*. *Ang.* Round leaved sundew. Red root. Youth-  
t. Moor Grass.

Desc. Cal. five div. Pet. five. Cap. one cell, five valves at top Seed several  
to the side.

Spec. Desc. Stalks from the root. Leaves circular. Style six. Leaf stalks fringed  
at the base. Blossom white. Mossy bogs. Blof. July, Aug.

Use. The whole plant is acrid, & sufficiently caustic to erode the skin; but  
ladies know how to mix the juice with milk, so as to make it an innocent &  
of application to remove freckles & sunburn. The juice that exudes  
it, unmixed, destroy warts & corns. This plant has the same effect upon  
it as the *pinguicula vulgaris*, & like that too is supposed particularly  
the Scotch highland. Lightfoot to occasion the rot in sheep. The name  
sundew seems to be derived from the striking appearance of these  
plants, the leaves being fringed with hairs supporting small globules  
of yellowish liquor like dew which continue even in the hottest sun.

Perhaps its acrimony resides in this secreted liquor. Withering.

The leaves of this marsh plant are purple, & have a fringe very unlike the exi-  
ble productions. And which is curious, at the point of every thread of this  
it fringe stand a yellowish drop of mucilage, resembling a diadal coronet. This  
mucus is a secretion from certain glands, & like the viscid material round the  
lower stalks of *Silene* (catch fly) prevent small insects from infesting the leaves.

The ear wax in animals, seems to be in part to prevent fleas & other insects  
from getting into their ears. Mr. Whately, an eminent surgeon in London ob-  
served these leaves to bend upward when an insect settled on them like the  
wax of the *Muscipula Venosa*, & pointing all their globules of mucus to the  
insect, that they completely entangled & destroyed it. M. Brouniet in the

Mem. de l'Acad. des Sciences, for the year 1784, after having described the motion  
of the *Bionia* adds that a similar appearance has been observed in the leaves of two species  
of *Bronch* (Panicum)

Class 6<sup>th</sup> Alexandria. Ord. Monogynia

Asparagus. A. officinalis. Aug. Asparagus. Sparagum. Sparrow grass. Spear.  
Gen. Desc. Stip. six div. upright. Inner petals, tips reflected. Berry sup. three lobed.

Seed two.

Spec. Desc. Stem herbaceous, cylindrical, upright, branched. Leaves bristle shaped; leaf  
scale solitary or in pairs. M. & f. flowers sometimes on distinct plants, but not  
when cultivated. Stip. bell shaped, yellow green; flow. M. & fem. or hermaph.  
Leaves red: seed one to three. Meadows & rocks on the sea coast. Bl. July.

Use. The young shoots in a cultivated state are universally esteemed for their  
flavour & nutritious qualities. They impart to the urine the scent that is per-  
ceived on the water in which they have been boiled. (Withering.)

Alexandria. Triginia.

Rumex. R. crispus. Aug. Curled Dock. Narrow leaved dock.

Gen. Desc. Calyx three leaved. Petals three, closing. Seed one, three corners in-  
closed in the ovary.

Spec. Desc. Flow. herm. Pet. entire, all beaded. Valves, strongly veined.  
Leaves spear shaped, acute, wavy, & curled at the edge. Root yellow. Beard one  
or three, rarely two. Valves large brown red when ripe. Beard pale when young.  
Changing to blood-red, then to brown red. Pastures, road sides, all soils. Bl. June  
July.

Use. The fresh roots bruised & made into an ointment, or a decoction of them  
is a cure for the itch, <sup>(Withering)</sup> & is useful in other cutaneous eruptions (S. W. Williams). The  
seed have been given with advantage in dysentery. In Norfolk (Eng) this plant  
is the pest of the clover fields. Horses, goats, & cows refuse it (Withering).

Take the narrow leaved clock root, & boil it in water till it be quite soft  
then bathe the part affected in the decoction as hot as can be borne, the root  
must then be mashed & applied as a poultice. This is said to cure cancer! Coulson's

Adiantum

Alexand. Trigin.

Rumex. R. acetosa. Lapathum acetosum. Autora patensis. Oralis crispus

Aug. common sorrel. Sorrel dock.

Gen. Desc. Asarum  
Spec. Desc. M. & f. flow. on distinct plants. Leaves oblong, arrow shaped.  
leaf stalks purplish. Blsp. Reddish. Male cal. leaf obtuse. Female cal. leaf  
cuneate, reflexed, waved on the margin. Meadows, & pastures. Bl. June-  
July. The leaves have an agreeable acid taste; & have been esteemed refrigerant, an-  
tiseptic, & diuretic. Taken in considerable quantity, or used variously as prepared  
as food, several will be found of important advantage where a refrigerant, or an-  
tiseptic regimen is required; Linnæus says that the Laplanders experience  
a cure to be in this respect an useful & pleasant diet. (Wolfe,  
the Laplanders boil the leaves in water, & mix the juice when cold in the milk  
the remainder, which is thus esteemed by them an agreeable & wholesome food,  
will keep in a cool place a long while. (Lilljebom) The leaves are eaten  
as in sauce & salad. In France they are cultivated for the use of the  
table, being introduced into soups, omelets & fricases. In some parts of  
Ireland they are plentifully eaten with milk, alternately biting & sipping. The Irish  
bo eat them with fish, & other alkaline food. The dried root gives out a beau-  
tiful red colour when boiled. Horses, cows, sheep, goats & swine eat it. (Wethering  
in page 124 - & M. M. V. p. 112)

Class Tetrandria. Ord. Monogyn.

Mitchella. M. repens - Ang. Cheque Berry. Partridge berry.  
Perennial. - Flowers (in Pennsylvania, New Jersey &c) in June & July; ripens its fruit  
in August & September. The fruit often continues upon the plant through the  
winter, & succeeding spring. The stems are slender & shrubby, lying close to the  
ground, & throwing out radicles at the joints. The leaves are opposite of pretty  
thick consistence, obtusely egg-shaped, entire, very smooth & of a dark green  
colour. They are marked, both longitudinally & transversely, with whitish or rufo-  
cross coloured veins, which are especially observable upon the upper surface.  
The flowers are axillary twinned (two arising from a common peduncle)

willow internally. & of a white colour. Stamens four. Germen twin, orbicular, com-  
mon to both flowers & inferior. A single style to each flower; stigmas four. The  
receptacle is a berry, two parted & globose. seed commonly four, compressed &  
callous. The flowers have a very agreeable odour.

Cotton Mather says, that the Mitchella is a valuable remedy in cases  
of dropsy. A decoction of the leaves is directed to be taken for several days to-  
gether as a tea. It is said to act as a diuretic, "as long as the disease lasts; after  
which it may be drank without provoking urine observably." He adds that  
"gouty people drink it with benefit." i. e., I am assured that in Georgia this  
plant has been found very beneficial in some cases of dropsy. & that its diu-  
retic operation is very manifest. Birds of various species, especially the Tetrao-  
umbellus (called Pheasant & Partridge), & the Tetrao marilandicus (called Partridge)  
in Pennsylvania eat the ripe fruit. Hence one of the most common names  
of this plant, Partridge-berry by which it is known in Pennsylvania, & in the  
New England states, & even in Hudson's bay. The berries though not very agree-  
able to the taste, are, it is believed, quite innocent, notwithstanding one of the  
names of the plant, Poison berries by which it is sometimes known in the  
country round Hudson's Bay. (Barton's Journal)

Vaccinium V. Oxycoccos. Oxycoccos vulgaris. Ang. Cran berries. Moss ber-  
ries. Iron berries. Marsh Whorts. Marsh whorta berries. Con berries.  
Spec. Dec. Leaves evergreen, egg-shaped, entire, edges rolled back. Front stalk  
single or in pairs, one flowered, red, semi-transparent. Stem thread-shaped, trail-  
ing, not hairy. Cal. smooth, fringed at the points, coloured. Stop. four distinct  
petals, deep flesh colour. Stam. often ten. anths. two colored, ending in a  
hair like open tube. Style red, tubular. Summit an open hole. Berry pur-  
plish red. Peaty Bogs.  
Use. Made into tarts they are generally much esteemed, but their peculiar fla-  
vour renders them disagreeable to some people. If they be wiped clean & then stored  
cooked in clay bottles, they will keep for several years, or the bottles may be filled with  
water. The name of Cranberry, which is the most general appellation, probably from the  
small stalks being cooked at the top, & before the expansion of the stop, resembling the head & neck of  
that cran.



Cornus. C. Sericea. Ang. Clap Island. 4<sup>th</sup> Ed. Monogin.  
Willow. Swamp dogwood. American red. red cornus. New England Dogwood. Female Dogwood.  
Doe. Involicum 4. Jhyllum sapins. Petala rupra 4. Drupe ruca 2. Loulan

Winnika kink is the name which some of our Indians, of the Delaware stock give to the  
mixture (which they are fond of smoking) of the bark of this species of cornus & tobacco.  
In swamps, on the margin of rivers, & now I believe on high ground. This species has  
a very extensive range through the continent of North America.

A shrub from six or eight to ten or twelve feet in height. Flowers in Pennsylvania  
in July & August.

The bark of Cornus sericea is one of the favourite winter articles of food of the  
American beaver (castor fiber). The ripe drupe, are greedily devoured by the common  
domestic fowl. From the bark of the more fibrous roots of this shrub, the Indians, in  
some parts of the continent, obtain a good scarlet colour with which they dye some of the  
articles of their dress. I have not learned what mordant (if any) they employ to fix the  
colour.

(Boston)

Both the Cornus florida, & the Cornus sericea are found by experiments instituted by Dr. Jan  
M. Walker, to possess the same ingredients with cinchona. The Cornus florida possesses  
most of the gum, mucilage, & extract, the sericea the next which appears to be an in-  
termediate between the florida & cinchona, while the latter possesses most of the resin  
& virtues appear equally similar in their residence. The extract & resin possess all these  
virtues. The extract appears to possess all their tonic powers. The resin when per-  
fectly separate from the extract appears to be purely stimulant. The bark of Cornus  
sericea forms a beautiful tincture with proof spirit, which has been found useful in the late  
stages of diarrhoea unaccompanied with fever. This & the powdered bark of both species,  
well deserving a place in the apothecary shops, as valuable additions to the Materia  
Medica. The industrious & learned Professor Barton says, "I believe, however, that it may with  
safety be asserted, that as yet we have not discovered within the limits of the Uni-  
ted States, any vegetables which have been found to be so effectual to answer the purpose  
of the Peruvian Bark in the management of intermitted fevers, as the Cornus florida & the  
Cornus sericea. - These articles have already attracted the attention of medical practi-  
tioners in the U. States, many of whom have vouch'd for their astringent & tonic powers to be little  
if any thing inferior to those of Cinchona officinalis. (Pacher) -

40  
Arbutus. A. cuneata. Clap 10<sup>th</sup> Decandria. Ord. Monogin.  
Bearberry. Strawberry tree. Vaccinia cuneata. Aug. Bear berries. Bear whortle berries.  
Spec. Desc. Stem trailing. Leaves oblong, egg-shaped, very entire, veined like oak  
underneath. Bloss. flesh-colored, tinged with red, mouth contracted. Berries red. Dry hills  
& woods. Bl. May, June.

Use. The leaves have in a dry state a bitterish astringent taste. The berries, insipid  
pulpy & mealy. The cuneata was much employed by the Ancients as an astringent  
but in modern practice was neglected till about the middle of the 18<sup>th</sup> century, it  
acquired a celebrity for its efficacy in calculous & nephritic affections, & also in  
almost every complaint to which the urinary organs are liable, as ulcers of the  
Kidneys, & bladder cystorrhoea, diabetes &c. It was first used at Montpellier for this  
purpose, & afterwards by Dr. de Haen at Vienna who relates several cases in which  
it proved of the greatest service. But in England its use has been more uncertain  
some patients found no relief, & some thought their complaints rather aggravated  
than alleviated; while in other calculous & nephritic cases, the symptoms have been  
almost entirely removed. Perhaps upon the whole it may be found no better than other  
vegetable astringents; some of which have been long used by the country people in  
gravelly complaints & with very great advantage. The virtues mentioned by the  
regular practitioners. Half a dram of the powdered leaves given every day, or every  
other day has been found useful in calculous cases. The leaves may be used either in  
powder or decoction; the former is generally preferred, & given in doses from a scruple  
to a drachm two or three times a day. Those plants which grow in dry, lofty &  
exposed situations, are preferred for medical use, to those found in valleys & in  
shady ground. This plant is much used in Sweden to dye an ash colour, & to tan  
leather. Woodruff, Hares, cows, sheep & goats refuse it. Wetness  
Professor Barton, from long experience of its efficacy, is high in its commendation  
in cases of nephritis depending on gout, & has found it serviceable in old gonorrhoea.

Decand. Trigyn. Nat. ord. Caryophyllar  
Stellaria. S. Media. - Alpine Media. Aug. Common Chickweed.  
Gen. Desc. Cal. five leaves expanding. Petals five divided down to the base. Capsule  
one celled. Seed many.  
Spec. Desc. Petals, deeply divided, white. Stamens vary greatly in number. Leaves egg-  
heart shaped. Stems with a hairy ridge on one side. Caps. six or eight; seeds round  
compressed, yellow, rough, with little tubercles. All soils, from the dampest to the driest

re. The young shoots & leaves boiled are a very good eatable; they can scarcely be distinguished from young spinach, & are equally wholesome. (Withering.) This species of Stellaria is a notable instance of what is called the sheep of plants; for every night the leaves approach in pairs, so as to include within their upper surfaces the tender inclinations of the new shoots, & the uppermost pair but one, at the end of the stalk are furnished with longer leaf stalks than the others, so that they can close upon the terminating pair, & protect the end of the branch. Lin. The flowers are open from nine o'clock till noon, but of a day that it rains they do not open; after rain they become pendulous, but in a few days rise again & are upright. Swine are extremely fond of it; cows & horses eat it; sheep are indifferent to it; goats refuse it. It is a grateful food to small birds, & to young chickens.

Withering.

Decand. Trigyn.

Chenopodium. S. Arvensis. Ang. Hoarweed spec. Corn Shrew.  
Per. Dec. Cal. five leaved. Pet. five, entire. Caps. egg shaped, one celled, five valved.  
Spec. Dec. Leaves in whorls, three on each side, cylindrical, thread-like, woolly, clammy. Stem thick at the joints. Root stalk branching. Flowers white. Stamens five.  
Ten. Seed, rough, black with a white border. Corn, fields, gravel, wetts. Flowers July.  
Use. The inhabitants of Finland & Norway use the seed to make bread, when their crops of corn fail. Poultry are very fond of them. Experience shows it to be very nutritious to the cattle that eat it. Horses, sheep, goats & swine eat it; cows refuse it.

Withering.

Clas 11<sup>th</sup> Dodecandria. Ordes Dyggynia.

Agromonia. A. Papatonia. Eupatorium veterum. Ang. Common Agromony.  
Per. Dec. Cal. five toothed, surrounded by another. Petals five. Seed two in caps at the bot.  
Part of the calyx, which become indurated.  
Spec. Dec. Stem cylindrical, roughish, hairy. Stem leaves winged. The odd leaflet on leaf stalk. Leaves hairy covered with viscid dots, & segments ending in small reddish gland, interruptedly winged; leaflets deeply notched, oblong egg shaped; smallest pair

50 entire. Summit rigid; fruit stalks surrounded at the top with a sort of outer calyx, crown into five spear shaped irregular segments with white upright bristles, & above a circle of numerous green awns hooked at the end, & within these the proper calyx of five leaves, spear shaped, concave, glandular without, within marked with three darker green lines, ending in a reddish point. Petals egg shaped, concave, slightly notched, twice as long as the capsule. Stam. 5 to 12. Corolla crowned with the calyx & a yellowish fleshy occutacle. Stylis thread shaped. Summit two thin lips at the end of each style. Cap. egg shaped hairy, orbicled. Seed egg shaped, flattened on one side. Flowers in long, upright, terminating bunches, fine yellow. Borders of corn fields hedges, shady places. Bl. June. July.

Use. This plant has been principally regarded in the character of a mild astri-  
gent & corroborant; & it is recommended by many as a dioblench, especially in  
hepatic & other visceral obstructions. Chomell relates two instances of its successful  
use in cases ~~of~~ where the liver was much enlarged & indurated. It has been used with  
advantage in hemorrhagic affections, & to give tone to a low & weak state of  
the solids. In cutaneous disorders, particularly in scabies, it is said to manifest  
great efficacy; for this purpose it was given with liquorice in the form of tea;  
but, according to Alston it should be always exhibited in the state of powder.  
Worth An infusion of the root is said to be made use of by the Canadians  
in burning fevers with great success. An infusion of 6 Oz. of the crown of the  
root, in one quart of boiling water, sweetened with honey, & drank half a  
pint three times a day, is said by Dr. Hill to be an effectual cure for the  
jaundice. He advises to begin with a vomit, afterwards to keep the bowels  
soluble, & to continue the medicine as long as any symptoms of the disease  
remain. Withering The leaves make a very pleasant tea, said to be service-  
able in hemorrhages & in obstructions of the liver & spleen. They are some-  
times used by the country people by way of cataplasms in fresh wounds &  
contusions. Lightfoot It has been esteemed a cephalic but now is not  
used. Hill. The flowers fresh gathered smell like chamomile. Sheep & goats  
eat it; horses, cows, & swine refuse it. Linnaeus

Dodecand. Monogyn

*Nymphaea*. *N. alba*. *N. odorata* Aug. Fragrant Water lily. White water lily. Ma-  
can. Cane lock. Water socks.

Gen. Desc. Plof. many pet. Cal. four or five leav. Sum. round, flat sitting. Berry m-  
rios. Lopped, many celled.

Spec. Desc. Leaves oval, heart shaped with a deep notch at the base, valve entire  
l. four cleft, leaves smaller than the outer petals. Petals in several rows surround-  
ing a double flower, bright white. flower open about seven o'clock in the morn-  
ing & close about 2 P.M. & then lies down on the water. Leaf & fruit stalks round  
with 6 or 7 ribs within. Summits seventeen or eighteen, in a circle, corresponding  
with its many cells in the germen. How grows, pond etc. In the sea at Cook.

July. Use. The roots are used in Ireland, & in the island of Java, to dye a dark  
green. This is one of the most beautiful of the English plants, & for the splendour of  
its starry blossom, brilliant white, & natural double, well deserves to be cultivated by  
a curious florist. It may be propagated by transplanting in winter its roots, which  
are bulbous. It extends itself by long runners, which form a root at the end, & send  
up leaf stalks in deep water. The petals gradually open as they approach the  
centre of the flower, when the outer filaments, expanding in breadth, gradually  
assume the form of petals, as is generally the case in the double flowers of the  
Nymphaea. (The roots form a most excellent suppurating poultice, for Boils,  
Abscesses & tumours, S. M. W.) Swine eat it; goats are not fond of it. Horses & cows  
refuse it. Withering #

*Polyandria* Dodecand. Monogyn.

*Folia*. *F. europae*. *F. Americana*. Aug. Lime tree. Linden tree.

Gen. Desc. Plof. five pet. cal. five div. seed ves. rather like, globular, five celled,  
two val. opening at the base.

Spec. Desc. Flower without ovary. Berry four celled. Leaves heart shaped, serrated.  
Flower leaf yellow green, nearly as long as the fruit stalk, & attached to half its  
length. Plof. whitish. Wood & Uses.

Ulex. The sap inspissated affords a considerable quantity of sugar. The leaves are dried in some countries for the winter food of sheep & goats; they are eaten by cows in the autumn, but they give a bad taste to the milk. The flowers are fragrant, & afford the best honey for bees. The bark macerated in water may be manufactured into ropes & fishing nets. The wood is soft, light & smooth, close grained & not subject to the worm. It makes charcoal for gun powder & for drawing; it is used for leather cutters boards, & for carved work, & is also employed by the tanners. This tree flourishes best on the sides of hills, but will grow very well in meadow ground. It is useful for forming shady walks, & clipped hedges, is easily transplanted & does not destroy the grass beneath it. (Withering)

Extract of a letter from Thomas Walmsley M.D. to B.S. Barton M.D.

"Sometime since I mentioned the *Vicia Americana*, as an application to burns, scalds &c. & supposed it to be entitled to further consideration. I have since had considerable experience with it, & have no hesitation in recommending it, as superior to any thing I have seen used in these cases; & as my confidence increases with every opportunity I have of using it, I think it ought to make you this communication, not doubting but you will give it a trial, as you have already done so much towards ascertaining the properties of our indigenous vegetables.

The part of the bark of the tree made use of is the liber or inner bark. I have generally used it fresh taken from the tree; but it answers very well when carefully dried. In either case it is cut into small pieces, & macerated in cold water, frequently stirring it about. In a short time the water becomes extremely viscid, & with this the injured part is to be kept constantly wetted.

In what manner this application produces so wonderful an effect, I do not pretend to know. Neither would I say if it would be serviceable in erysipelatos or other inflammations; but there is some analogy between this & the inflammation from burns & scalds, the experiment would be worth making. Relief is obtained in a very short time after the application, & a cure is soon performed. Whether my confidence is too sanguine or not future observation must determine. It has nearly happened that I have been under the necessity of employing any thing else. I have no doubt that the cold water has considerable effect in abating the inflammation.

It I am equally certain, that if it were used unimpregnated with the 53  
 ounce of the silica, a very perceptible difference would be found.  
 The Silica often reaches the height of forty or fifty feet, & there are many trees two feet  
 diameter. It is generally found along the water side, where it makes a beautiful  
 "parade" while in flower; & from its singular mode of inflorescence, the peduncle  
 is a continuation of the middle rib, projected from the center of the bractea  
 is calculated to attract the attention of almost every one." See *Am. M. N.* vol. 1. page 120

Class Polyandria 99<sup>th</sup> Order Trigen. 3<sup>d</sup>

*Delphinium*. *D. consolida*. *D. vulgare*. *Consolida statensis*. Ang. Wild Larkspur.

Larkspur. Larkspur. Larkspur. — Common.  
 Gen. Desc. Cal. 0. pet. 5. or 6; nect. cloven, horn shaped behind; caps. leguminous,  
 many seeded.

Bl. Desc. Capsule single. Nectary one leaf. Stam. subdivided. Leaves deeply  
 divided into three or five parts; then deeply cut into slender strap shaped segments, of-  
 ten forked at the end. Petals irregularly notched, lateral ones broadest, uppermost  
 heart-shaped, blue; by cultivation, white, purple, red, or bay. Nect. within upper pe-  
 tal, tube projecting backwards within the tube of that petal. Anther double yellow  
 cone. conical, woolly. Style 0. summit two; white, small, fleshy, flattened. Corolla  
 wild. Bl. June. Sept.

Use. The seeds are acid & poisonous. The expressed juice of the petals, with  
 the addition of a little alum makes a good blue ink. By cultivation the flowers  
 often become double. Sheep & goats eat it; cows & mares refuse it. (Nothing). The  
 plant steeped in spirit & the infusion applied to the head of young children, will  
 completely destroy the worms. (S. W. M.) - &

One ounce of the bruised roots of *Delphinium consolida* infused in one pound of proof  
 spirit, according to Dr. Blanehard of Pembroke N. H. has been found of essential service  
 in affections of the lungs, in asthma, particularly the spasmodic; & in most cases of  
 cough. The Dr. observes, "I am clearly of the opinion that when compared with digitalis  
 it merits a decided preference; except in cases when it becomes necessary to diminish  
 arterial action."

A common dose for an adult is from ten to twenty drops, two or three times a day.  
 I have generally given it with pectoral, one part to three, beginning with twenty

54 drop & increasing as the case may require. - Large down navaute, produce a slight diarrhoea, & sometimes a flux in perspiration; do not affect the pulse, nor the uterine system." From a foreign species of this plant is produced the stavesacre (D. Stavisiagrum) of the shops, the cancerous, narcotic qualities of which prohibit its internal use altogether. See my Mat. Med. vol. 1. p. 74.

Polyand. Polygyn.

Anemone. A. Nemorosa. Ang. Wood anemone -

Gen. Desc. Cal. generally 0. Pet. five to ten. Caps. with awns & tails, formed by the style. Spec. Desc. Flower naked. Seed tail. leaf, pointed. Stem 1- fl. purplish. Stem hairy. doubly three fold. Leaflets egg-shaped, smpt. slightly hairy. Petals three inward. & three outer. the latter tinged with deep purple underneath. Wood. hedges. hollow ways. Blo. April.

Use. The whole plant is acrid. When it is eaten by sheep that are unaccustomed to it, it brings on a bloody flux. The flowers held up in a curious manner against rain. Goats & sheep eat it; horses, cows, & swine refuse it. - Lin. The paper in which the dried specimens are preserved, is stained brown, whence it appears probable that it might be employed as a dye. Stokes. This plant is used as a substitute for Spanish flies. See my Mat. Med. vol. 1. p. 45.

Polyand. Polygyn.

Thalictrum. T. flavum. T. Cornuti. - Ang. Meadow rue weed.

Gen. Desc. Cal. 0. Petals 4 or five, capsules many rather beaked. Spec. Desc. Stem furrowed, leafy. Leaflets acute, three cleft. Panicle much branched upright compact. Flowers upright, yellow, white. Pet. 4. Stam. 24. Pist. 10 to 16. Moist ground. Bl. June.

Use. A cataplasm made of the leaves has been known to give relief in the sciatica. The root dyed cool yellow. Horses, cows, sheep, & goats eat it; swine are not fond of it. - Willd.

Ranunculus. R. Scutellatus. - Ang. Round leaved water crowfoot. Celery leaved crowfoot

Gen. Desc. Cal. decid. five or three leaved. Petals five (rarely two, three or six) with a nectariferous scale or pore within the claw. Styles permanent. Seed mounted, upright. Spec. Desc. Lower leaves hand shaped - Upper l. fingered; root leaves



kidney-shaped lobed, on long leaf stalks, smooth. Plant dark green, branched  
abundant. Petals small, yellow. Recept. egg shaped. Fruit oblong. Wallow water

36. May. June.

The whole plant is very corrosive, & it is said to be made use of by beggars  
for the purpose of ulcerating their feet, which they thus expose to the public to  
excite compassion. Goats eat it; horses, cows & sheep refuse it (Waltz) —  
mixed & applied to the skin it will blister in a few hours. Dom. Enc.

Polyand. Polygini.

Sagittaria. S. Sagittifolia. Ang. Common Arrow head.  
Gen. Desc. Monocious. Cal. three div. Petals three. M. filam. about 24. Fr. seeds

many naked.  
Phlc. Desc. Leaves all from the root, arrow shaped, acute, smooth, entire, with  
parallel ribs & a net work of veins; the first leaf always under water, strap shaped.  
stalk six edged. Leaf stem tapering, convex underneath, concave above, under water.  
lower three in a whorl; lower stem on fruit stalks half an inch long; upper one  
three to five joints. Fruit 5. from 4 to 5 inches long, 1 inch long slender. Flowers  
white, tinged with purple at the claws. Ditches Wallow water. 36. July —  
The lower part of the root, growing in the solid earth beneath the  
water, is always found a bulb, this bulb constitutes a considerable part of the food  
of the Chinese, & upon that account the plant is cultivated by them. Horses,  
cats, & swine eat it; cows are not fond of it. (Waltz)

Clas 14<sup>th</sup> Didymaria. - Ord. Gymnosperma -

Veronica. V. Chamodrys. Ang. Wild Gromwell. Gromwell Spudwell.  
Gen. Desc. Upper lip upright, deeply divided, even below the base. Stamens  
in the division. An indigenous perennial plant growing in pastures & the  
sides of hedges, & flowering in May. It is eaten by cows, goats, sheep & horses, but  
swine refuse it. The leaves of this plant have been recommended as a substi-  
tute for tea; but it is chiefly used as a mild astringent. Dom. Enc.

Dydimum. Gymnosperm.

Scutella. St. Catarina. Angel Catmint.  
Gen. Desc. Blsp. middle segm. of lower lip swollen, mouth edges reflexed. Stam. appowaching.

Spec. Desc. Flowers in spikes, white, a tinge of red, & spotted with purple. Whisk on short foot st. mostly lateral. Leaves on leaf st. heart shaped, toothed. ratid. of a velvet like softness, downy. Cal. downy, green ribs. Partures. in calca- rious soils. Bl. July.

Ure. An infusion of this plant is deemed a specific in chlorotic cases; two ounces of the expressed juice may be given for a dose. - Cats are so delighted with this plant that it is difficult to keep them out of the garden where it grows. Miller says that if it be raised from seed, cats will not meddle with it, & in support of this opinion he quotes an old saying, "If you set it, the cats will eat it, if you sow it, the cats will know it." It cannot well be plant- ed without being more or less bruised. Sheep eat it; horses, cows, goats, & swine refuse it. - (W. Th. J.) -

Verbena. V. officinalis. Dydimum. Gymnosperm.  
Ang. Vervain. Simplicis joy -

Gen. Desc. Blsp. funnel shaped, segments nearly equal. Calyx one of its teeth topped. Seed two or four, naked.

Spec. Desc. Spikes thread shaped, panicled. Leaves with many jagged, clefts the upper three-cleft or simple. Stem solitary, four cornered. Stamens four. Two longer; often only two. Seed four. Waste places. Stom walls. road sides.

Ure. From being used in Sacrificial rites, this plant was held sacred, & by degrees adopted as a medicine. hung as an amulet about the neck; it was afterwards bruised first in order to obtain its virtues more effectually; thus and Forestus relates a remarkable instance of its efficacy in inveterate head-ache. In later times it has been employed by way of cataplasm, by which the most severe & obstinate cases of cephalalgia are said to have been cured. W. Th. J. however, it has fallen into disuse, nor has Mr. Nolet's Pan- phlet, or commendatory poem in scrophulous cases been able to restore it. This gentleman directs the root to be tied with a yard of white satin ribbon

and the neck, there to remain till the patient recovers; he has also on 57  
more to infusions, & ointments prepared from the leaves of the plant; & occasion-  
ally calls in the aid of the most active Medicines of the Materia Medica (Woods)

Dynam. Gymnosperm.

Plant. M. piperita. Stem. Peppermint  
Desc. Bl. sp. nearly equal; four cleft; the broader segments notched at the end.

Stems upright, distant  
Desc. Leaves egg-shaped, on leaf stalks. Stamens shorter than the Ovaries. Flowers  
terminating spikes, separated in clusters, sometimes in which small reddish purple  
at each wh. two pointed, spear-shaped, hairy floral leaves. Var. Leaves spear-shaped  
two places. Bl. Aug. Sept.

Use. The spontaneous growth of this plant is said to be peculiar to ~~Britain~~  
It for medicinal use, its cultivation has long been extended over Europe. It has a more  
penetrating smell than any of the other mints, a much stronger & warmer taste, pen-  
etrating & glowing like pepper, sinking as it were into the tongue, & followed by a sense  
of coldness. By maceration or infusion it readily & strongly impregnates both wa-  
& spirit without evaporation. In distillation with water it yields a considerable quan-  
tity of essential oil, of a pale greenish yellow colour, growing darker coloured  
age, very light, subtle, possessing in a high degree the specific smell & pene-  
trating pungency of peppermint. (Lewis) Rectification. Dr. Cullen observes, is  
particularly necessary & proper for this essential oil: What has been called essence  
of peppermint, seems to be no other than the rectified oil, dissolved in spirit of

Desc. Its stomachic. antispaasmodic. & carminative qualities render this plant  
useful in flatulent cholera, hysterical affections, vomiting, & other dyspeptic  
symptoms, acting as a cordial, & often producing immediate relief. Camphor  
to be obtained from this plant. (Woodward) Peppermint water is well known  
as a carminative & antispaasmodic. The stem & leaves of the plant are best  
with number of very minute glands containing the essential oil, which rises  
plentifully in distillation. The essence of Peppermint is an elegant medi-  
cine & possesses the most active properties of the plant. (Wethering)  
See next page page Mentha arvensis

58 Radix Pelegroidis. Dydimum. Gymnosperm.

Mentha M. Pelegium. Pelegium Latifolium. P. requum. Aug. Pennyroyal mint.

Gen. Desc. As above.

Spec. Desc. Leaves egg shaped, blunt, somewhat rolled up, thick, slightly toothed, underneath set with deep semi-transparent dots. Stems roundish, creeping, four blunt corners, hairy branched. Bl. twice as long as the calyx, hairy without, pale purple.

Most heats & partures. Bl. Aug. Sept.

Use. It has a warm pungent flavour, somewhat similar to mint, but more acid & less agreeable both in smell & taste: its active principle is an essential oil of a more volatile nature than that of mint. Pennyroyal possesses the general principle properties of the other mints, but it is supposed to have less efficacy as a stomachic. Though more useful as a carminative, & emmenagogue & more commonly employed in hysterical affections. We are told by Boyle & others that it has been successfully used in the whooping cough; but the chief purpose to which it has been long applied, is promoting the uterine evacuation. With this intention Haller recommends an infusion of the herb with steel in white wine which he adds, "me nunquam sefellit". Dr. Cullen, however, considers mint in every respect a more effectual remedy than Pennyroyal: & it is now less frequently used than formerly. - (Wethering) The expressed juice with a little sugar, is not a bad medicine in the whooping cough. A simple & a spirituous water, distilled from the dried leaves are kept in the shops; they are prescribed in hysterical affections, & are not without considerable an-  
tispa-modic properties; an infusion of the plant may be employed with the same intention. (Wethering) See my M. M. vol. 1. p. 84.

Dydimum. Gymnosperm.

Mentha. M. arvensis. M. sativa var. M. rubra. Aug. Corn. mint, Horse mint

Gen. Desc. As above.

Spec. Desc. Leaves egg shaped, blunt, somewhat acute serrated, towards the bottom roundish. Stem spreading, not tinged with red. whole pl. hairy. Flowers in whorls, lateral wh. two opposite umbels, sitting. Bl. hairy within & without lower segment blunt. Cal. pale green, hoary, interspersed with very minute semi-transparent glands. In watery places. Lowest corn fields. Bl. July. Sept.

Use. This plant prevents the coagulation of milk; & when cows have eaten it as

will do largely at the end of summer, when pastures are bare, & when hunger  
torments them. This milk can hardly be made to yield cheese, a circumstance which  
sometimes puzzles the dairy maids. (Withering). — The plant bruised & applied to a  
woman's breast when it is swollen, or much swelled, will take down the inflammation.  
I am informed, & will cause it to yield milk in a short time. (P. M. M.)  
See my Mat. Med. vol. 1. page 97

Bydium. Gymnosperm.

Glycoma. G. hedraea. G. Hedera terrestris. Chamocistus. Ang. Ground ivy.

Will. Cat's foot. Ale-hoop. Van-hoop. Robin-cum-in-the-hedge.

Pen. Desc. Cal. five cleft. Anthers in pairs, each pair forming a crop.

Her. Desc. Leaves kidney or heart-shaped, notched, underneath hollow dots, in which  
are glands secreting an essential oil, & a brown little eminence, not secreting any o-  
bnoxious oil. Stamens sometimes imperfect. Roots sending out trailing suckers.

Sp. Pbr. rarely flesh colour. Groves, shady places. B.C. April. May.

Use. It has a peculiar strong smell, & a bitterish taste, somewhat aromatic. It  
is formerly supposed to possess great medicinal power, which later experience  
has been unable to discover. It is now omitted in the London Mat. Med. Its great  
virtues have been described as pectorals, detergent, aperient, diuretic, vesicatory, cor-

borant, exsiccant &c. & has been variously recommended for the cure of diseases to  
which these powers seem adapted, but chiefly in pulmonary & nephritic complaints.

In obstinate coughs it is a favourite remedy with the poor, who probably ex-  
perience its good effects, since they still persevere in its use. Ray, Mead, & others,  
speak of its being useful joined with fermenting ale; but Dr. Cullen observes

that "it appears to him frivolous, & says that he has never had any evidence  
of its diuretic or of its pectoral effects; in common with many others of the ver-

ullatae, he thinks it may be employed as an exsiccant, & in that way cure a head-  
ache, but no other way, by any specific qualities. Ray gives a remarkable instance  
of its efficacy in this way in the complete cure of a most violent cephalalgia.

It is usually taken in the way of infusion, or drunk as tea. (W. D. W.) The  
ale thus thrown into a vat with ale, clarify it, & give it a flavour. The ale thus  
prepared, is often drunk as an antiscorbutic. The expressed juice mixed with a

60 Little wine, & applied morning & evening, destroys the white specks upon ho-  
ses eyes. - Plants that grow near it do not flourish. It is said to be hurtful to  
horses if they eat much of it, but they are not fond of it. Sheep eat; cows, goats,  
& swine refuse it. - (Walking) Tea made of the leaves, & sweetened with honey  
& sugar, is a good remedy for a cough. - H. B.

Dydimium. Gymnosperm.

(Thymus. T. serpyllum. Serpillum vulgare minus. - Ang. Common Thyme. Wild  
Thyme. Mother of Thyme -

Gen. Desc. Cal. two lipped. mouth closed with soft hairs -  
Spec. Desc. Flowers in heads. Stems creeping, woody nearly cylindrical. Leaves flat  
blunt, fringed at the base, oblong egg-shaped. Perhaps I have not the species S. N. W.

Dydimium. Gymnosperm.

Prenanthes. P. vulgaris. Bonnella vulgaris. B. Major fol. non dissect. P. Pennsylvanica

Ang. Common Self Heal.  
Gen. Desc. Filaments forked, one of the divisions bearing anther. Summit cloven.  
Spec. Desc. Leaves egg oblong, serrated, on leaf st. opposite. Cal. sep. 2 lipped,  
three toothed, seven ribbed. Blos. blue, purple or white. sep. sep. deeply notched;  
lower mid. segm. jagged. Sum. segm. rolled back. Stem in many situations trail-  
ing, a finger long; in wood upright, a foot high; thick hairy. Meadows, pastures,  
Blos. August.

Use It is an astringent, & vulnerary but it is rarely used at present  
except by the country people; by them it is bruised & applied to fresh wounds;  
they take it also in broths & apocems for spitting of blood, & in bloody flux. &  
other haemorrhages they use it by way of injection. - (Lightfoot)

Dydimium. Angiosperma

Antennaria - A. linaria. Ang. Toad Flax yellow. Snap dragon. Butter & Eggs

Gen. Desc. Cal. five div. Blos. bulging at the base, or ending in a spur. Caps. two  
celled, many seeded, opening at the top & the divisions bent back.

Spec. Desc. Leaves spear-shaped, crooked, alternate; stems upright, smooth  
spikes terminating, sitting. Flowers tiled. Blos. petals woolly, orange; lower lip segm.  
circular, mid. segm. much smaller projecting part orange woolly; the rest pale yellow

with. Nect. long, and shaped. Barren fields, road-sides. Bl. July. Sept.  
 An ointment prepared from the leaves, & invented by Dr. Wolff, Physician  
 the Landgrave of Hesse, has been used in the piles, & it is said to afford relief.  
Witney The leaves in infusion are diuretic & purgative & are recommended in  
 hies. It has also been used in jaundice. An infusion of the flowers is said to be  
 efficacious in cutaneous disorders. Witney The expressed juice mixed with  
 milk is a poison to fish, & the smell of the flower has the same effect upon them.  
 horses & swine refuse it. Sheep & goats are not fond of it. — Witney —  
 See my Nect. M.D. vol. 1. page 46

Dydimium. Angiosperm.

Scrophularia. S. nodosa. S. Maryland. Ang. Great Figwort. Roundwort.

Knobby-rooted figwort.  
Gen. Desc. Cal. five cleft. Blos. five div. tube globular; lower segment orifice.  
Cap. two celled, partition double.  
Spec. Desc. Leaves oblong, heart-shaped, three fibred at the base. Stem short  
 & woody. Cal. toothed & membranous. Blos. tube filled with honey, upper segm-  
 ent with honey; upper segm. purple, the rest pale green, two let expanding  
 & rolled back. Wood, moist sidges. Bl. July.

Use. This plant is hardly known in modern practice. But its rank smell & the  
 taste of the leaves seem to indicate, some active properties. Swine infested with  
 the scab have been cured by washing with a decoction of the leaves. Wasps greatly  
 root to the flower. Goats eat it; horses, cows, & swine, refuse it. — Witney

Clap 15<sup>th</sup> Tetradynamia. Ord Siliulosa

Cochlearia. C. officinalis. C. hortensis. Coch. rotundifolia. Ang. Seary grass. Scrooby grass.  
Gen. Desc. Pouch ~~rough~~ notched, two-lobed, rough, many seeded; valves bulging, blunt.  
Spec. Desc. Root leaves heart circular, entire, veined, on long leaf st. fleshy. Stem l. oblong,  
 thick, a little indented. Stem angular. Pet. fleshy, clear white claws, greenish. Pouch  
 slightly notched smooth. Partition double. Seed rough. Sea shore. Blos.  
 April. May

Cochlearia. C. Coronopus. Ang. Swiss creep. Snowy grass-

Gen. Desc. as above.

Spec. Desc. Leaves wing-cleft. Stem decumbent. Root leaves prostrate; leaflets cut in long the fore edge, entire on the back edge. Pouch kidney heart shaped, narrowed & ridged

Bunches axillary. Blo. white. Corn fields, rubbish Bl. June. Ang.

Use. This plant was rendered famous some years ago by its ashes being an ingredient in Mr. Johana Sturheim's celebrated medicine for the stone & gravel, but unfortunately it has not supported its credit. (Lightfoot)

Clap 16<sup>th</sup> Monadelphica. C. D. Triand.

Juniperus J. Virginiana. Ang. Red Cedar.

Gen. Desc. Staminate flowers ament ovate: calyx a scale: stamens 3. Pistillate flowers. calyx three parted, petals 3. style 3. berry 3 seeded, consisting of 3 unequal tubercles of the calyx. (Not berry, called with balsam glands at base - Virginiana - red cedar, leaves united by their bases in threes. Perennial)

Use. The red cedar tree is a native of the United States & grows to the height of fifteen or twenty feet. Its berries are smaller than those of the true juniper in Virginia & Carolina. The berries are distilled into brandy. The leaves of this tree are now brought into notice by the investigation of Dr. Aaron Dexter Professor of Chemistry & Materia Medica in the University at Cambridge. He has found this to be the only species of juniper in the United States, whose leaves agree in their properties with those of the Savine directed by Dr. Crooth as the basis of the Savine ointment. (Thebes) Dr. Dexter is incorrect. The juniperus sabina likewise makes the genuine Savine extract S. W. W.

Juniperus. J. Sabina. Ang. Savine.

Gen Desc. As above. Rang. of prostr.

This is an evergreen shrub which has rather prickly leaves, & produces blue berries, only after it has arrived at a considerable age. Its stem attains the height of seven feet, & is apt to grow in a reclining posture: the wood is internally of a beautiful reddish shade, resembling that of mahogany. The leaves of savine possess a bitter acid taste, & their smell is so powerful & disagreeable that it expels moths & similar vermin. When distilled with water this leaves yield an uncommonly large



portion of essential oil.

Savina is a warm stimulating medicine, capable of producing diaphoresis increasing all the secretions, especially from the uterus. It has long been considered a powerful emmenagogue, & Dr. Home asserts that in five cases of obstructions of the menses, four were cured by the savina, which he gave in powder from a scruple to a drachm, twice a day. But this acrid & heating substance in the opinion of Dr. Cullen is improper in phthoric habits, & should be employed with caution in those cases only which proceed from a relaxed state of the solids.

The oil distilled from this shrub is one of the most violent emmenagogues & ought therefore to be used with the greatest caution in obstructions of the uterus or other viscera proceeding from laxity or weakness. Savina is also used as an anthelmintic, & said to be very efficacious in the cure of the gout.

Externally the leaves are applied in the form of powder or infusion, to various sores, & old ulcers, & in cases of puer, gangrene, & tinea. Savina apply this article with success to the ulcers of noses (Thacker)

Monadelphica. Polyanth.

Athys. A. Officinalis. A. Indica. A. rubris Malva. Ang. Math Malva.

Symptom.  
Gen. Desc. Cal. double; outer rim cleft. Capsules many, one seed in each.  
Spec. Desc. Leaves undivided, angular, cottony, obscurely lobed, doubly serrated, lower edge shaped; very soft like velvet or leaf stalks. Stem upright a yard high, cylindrical, velvety, branched. Flowers in panicles, axillary, on foot stalks, white or pale flesh colour. Pet fringed at base, nicked. Cal. sometimes eleven or twelve. Bl. Ang.  
Loc. alt marshes & banks of rivers.

Use. The dry roots boiled in water, give out half their weight of a pumice matter, nearly allied to gum arabic, tragacanth, starch &c. &c. dissolving more other viscid substances more readily than the first. (Berkholz) which on evaporating the aqueous fluid forms a flavoured yellow mucilage. This mucilaginous part of the plant matter is the medicinal part of the plant.

64 It is commonly employed for its emollient & demulcent ~~properties~~ qualities; its use is recommended where the natural orness of the membranes becomes acid or abraded, for obtaining & incorporating a viscidious thin fluid, in tickling coughs from the effusions of the Lungs & Lungs, in hoarseness, evasions of the stomach, & intestines, stranguary. & for lubricating & relaxing the passages in nephritic & calculous complaints. (Lewin, It is directed only in the form of a Symp, the root was formerly used in substance. (Woodville,) The root & leaves have a mucilaginous, & are often used in a Symp or decoction as a balsamic pectoral for coughs & hoarseness. It is also found useful in nephritic complaints & the stranguary, & is employed in cataplasms & fomentations against swellings. The root will turn water to a jelly. (Lightfoot) The root boiled is much used as an emollient cataplasms, & an infusion of it is very generally prescribed in all cases where mild mucilaginous substances are used. (Math.) See Met. Med. vol. 1. page 41

Clap 18. Sympnesia. Order 1. Polygam. Equali-

Tragopon. T. porrifolium. Ang. Goats beard. Vegetable oyster.

Gen. Desc. Calyx simple many leaved; ~~receptacle naked; sepal 5 pointed~~ ~~filamentous~~ ~~the~~ ~~ped.~~

Use The porrifolium or purple goats beard is found in meadows & not un- frequently in upland pastures. It flowers in the month of May. The succulent roots of this vegetable when cultivated in gardens are called salsify. Cows, sheep & horses eat the whole of this plant. Some devours it with avidity but it is not relished by goats. The tender roots afford a delicious salad, & also an excellent substitute for asparagus. Dom. Enc.

Clap 10<sup>th</sup>. Decandria. Order 2<sup>nd</sup> Dyzymia. ~~Nat.~~ Ord. Tricaria

Gaultheria. G. Procumbens. Ang. Spicy Wintergreen. (Partridge berry, etc)

Gen. Desc. Calyx inferior, double, outer 2 leaved inner 5. cleft; corolla ovate; capsule five celled, invested with the inner, covered calyx, nectary 10 pointed. Procumbens, leaves ob- ovate. Perennial. flowers white.

Use There is but one species of the Gaultheria known to us as a native of the U. States

is called Canadian Galtheria or mountain tea, Grouseberry, Berberis groundney,  
is a common & very small shrubby plant, with slender stems having at their  
base few or five oval evergreen leaves, which have been used as a substitute for Bo-  
ea tea, whence the name of mountain tea. This tea has been used with success in  
alleviating the asthma. Dom. Enc. See my Met. M. vol. 1. page 80-

## Clas Irland - Diggins

Clum. P. Pratense. Ang. Timothy Grass. Cat's tail grass -

Des. Calyx involuted, 2 valved, sessile. Anas. truncate, bicuspidate, corolla  
red (pratense), spike long, cylindric. green. Glumes 2 or 3 flowered; panicled.  
A well known favourite & native grass of the Northern & middle United States. Accord-  
ing to Mr. Strickland (Transac. Board of Agric.) it is the same as the English Cat's tail grass  
except that the Timothy is about a <sup>foot</sup> taller than the cat's tail, the effect of the  
change of seed & climate.

Dr. Muhlenberg, we have seen accord in the opinion.  
Mr. Bean (New Eng. Farmer) says it obtained its name by being carried from Virginia to  
North Carolina by one Timothy Hanson. Is it possible to ascertain the accuracy of  
his statement? By what name is it known in Virginia?

Timothy suits a moist low ground, & if somewhat shady it may be sown alone. On  
pland it is generally sown with the red clover, but as these grasses ripen at different  
period, it certainly is bad economy to sow more Timothy than will answer to support  
the clover which is very apt to lodge. But as a combination of Timothy & clover is  
preferred by horses, & the former tends to correct the tendency of the latter to injure  
the ground, the best way is to sow it with grain, to roll the ground, & to permit it to  
stand alone after the grain comes up. It may then be mixed with clover hay in the

mate layer.  
The Timothy will grow about four inches high in the autumn, & in the suc-  
ceeding spring the grain will shelter it from the sun, until after harvest, when  
it will have acquired sufficient strength to bear the heat of our summers. The first  
year after grain harvest it may be slightly pastured, but the second year it must  
be kept up for hay, of which it will yield an abundant crop if the ground  
has been well prepared. It may be pastured afterwards, & if the land be manured well  
it will keep on the same ground many years.

66 Timothy is commonly cut too soon, that is before it has blossomed. It is then bit-  
ter & apt to bleed, which weakens the stalk & frequently occasions the death of the plant,  
but if permitted to stand until in full blossom, the young leaves will be seen  
coming out from near the surface, which if the grass be then cut, will start  
up with vigour, stand the sun & yield a fine pasture.

It is a common opinion among farmers that Timothy hay is better for being  
heated or mow burned. But Mr. Joseph Cooper answers the editor, that this is  
a mere prejudice & unfounded in fact. — He justly remarked, "that cattle  
are the best judges of good hay, & that repeated attention to the subject  
has convinced him that they will seldom, if ever leave any part of bright  
Timothy hay which may be put before them, while on the contrary, a part  
of mow burned hay will frequently be left. He also added an important fact:  
viz. that bright hay, even if made of coarse grass, will give yellow butter, while  
the best Timothy hay if mow burned, will always produce white butter.

One acre of Timothy hay will produce thirty bushels of seed, & on good upland  
two tons of hay.

Timothy is spoken of in terms of contempt by Wayne, Sole & other practi-  
cal English writers, the reason of which is that the heat of the sun in England  
is not great enough to bring this plant to perfection: Don. Enc.

Triand. Digyn.

Dactylis. D. Glomerata. Ang. Orchard Grass

Gen. Desc. Calyx two valved, one valve smaller, corolla 2 valved, awnless, combic  
carnate; style long. Panicle straight, spikes lateral flowered, florets imbricate.  
glomerata. a panicle condensed into a spike form head, perian.

This is a native of the U. States, & is a strong, robust, productive plant. It is  
ripe before timothy, flourishes well in orchard in the shade (whence its name)  
& lasts three years. It should be cut when young, either for hay or fodder, as its  
stalk becomes coarse when permitted to grow old. Sole in the 9th Vol. of the  
Bath Society Trans. says it is refused by all cattle, but from this assertion, & from  
what he says of our favourite Timothy he cannot be received as authority  
for American farmers. It is said that the American orchard grass is different  
from the grass known in Europe by that name: Don. Enc.

Agrostis. A Vulgaris Clas. Triand. Dy. cyr.  
Ang. Red top. Red grass.

Pen. Desc. Calyx two valved, ~~coarct~~, ~~valved~~ flower, ~~venter~~ valves acute. vulgaris  
two valved. stigmas longitudinally hispid or plumose / florets spreading / vulgaris  
anicle spreading. glume calyx twice as long as coarct. vulgaris  
The red top & white top are only varieties of Red grass. The latter is larger of  
the two. The red top is particularly valuable, as it will grow & root the first  
year on banks, when no other grass will thrive. Com. Enc.

Clas. 21 Dioclea. Ord 4. Tetancloria.

Pannabis. C. Sabina. Ang. Hemp.

Pen. Desc. Staminate flowers - calyx five parted. Pistillate flowers - calyx five  
parted, entire gaping laterally: style 2. nut 2 valved, within the closed calyx setae  
stem hairy, leaves digitate staminate flowers solitary - Annual.

This is a valuable plant which grows wild in the East Indies, & is cultivated to a very  
considerable extent in Britain & the U. States. It thrives most favourably on a sandy  
soil loam, or on old meadows & low bottoms near rivers, & is propagated from seed  
which is sown in the proportion of eleven pecks, or two bushels per acre, broad cast, tho'  
much smaller quantity will answer, if it be drilled. The proper time for sowing  
is from the middle to the end of April, or even a month later, but the  
best crops are generally produced from the earliest seed.

This useful plant requires no weeding, the male or finch is usually fit for  
cutting in the middle of July or about nine weeks after it is sown. The female termed  
seed hemp is seldom ripe till September when it is pulled, tied in bundles  
& set to dry; at the end of ten days they are loosened & the head or tops are held up  
in a bundle by one person, while another with a small threshing flail, beats out  
the seed.

Beside the strong cloth & other articles made from it, hemp is of considerable  
utility for other purposes. The refuse, called hemp shaves afford an excellent fuel,  
the seed yield by expression a pure oil, which is peculiarly adapted for burning  
in chambers, & is perfectly limpid & possesses no smell. Another valuable prop-  
erty of hemp is that it effectually expels worms from plantations of cabbage  
if it be sown on the borders of fields &c. planted with that vegetable, or cater

68. pills will infect it. When fresh hemp has a strong acrid smell; the water in which it has been soaked is said to be in a high degree poisonous, & to produce fatal effects immediately after drinking it. The seeds have an unctuous sweetish taste, they may be triturated with water, or boiled in milk as an emulsion which is occasionally taken as a domestic remedy in coughs, heat of urine, & similar complaints. Don. Enc.

~~Tetradynamia~~ <sup>Monodelph</sup>  
Clas 10<sup>th</sup> Tetradynamia. Ord. Decand.

Geranium G. Robertianum. Ang. Herb robert.

Gen. Desc. Calyx five leaved, corol 5 petalled, regular: nectariferous glands 5 adhering to the base of the long filaments: anthers 5, 1 seeded, awned, beaked at the head of the receptacle: awn naked, straight. robertianum calyx 10 angled pilose. peduncles 2 flowered, leaves in 3 or 5 three cleft divisions. Annual. fl. purpl.

Use. This herb is in great repute among many farmers, for its efficacy against staking of blood, & the bloody flux in cattle; in which cases it is said to be preferable to most of the remedies used on such occasions.

In Germany, the Herb Robert is employed in the process of tanning, & Dambroney obtained from this, as well as from all the other species of Geranium, a more or less durable yellow dye. Don. Enc.

Clas 5. Pentand. Ord. Monogyn.

Lonicera L. Periclymenum. Ang. Woodbine Honey suckle.

Gen. Desc. Corol tubular, 5 left, unequal: berry two or 4 celled: seeds many. (Semperviv) tube of corol dilating upwards, woody. flowers red, exotic - flowers from June to August.

Use. It is eaten by cows, goats, & sheep, but refused by horses. The beauty & fragrance of its variegated flowers, render this species a pleasing ornament of our garden hedges, & arbours. The best as well as the easiest method of propagating it is by layers & cuttings, both of which readily strike root & form plants that are fit to set out in one year. The ripe berries are strongly purgative. Don. Enc.

Clas Cryptogamia. Ord. 1.

Urtica. C. Horvense.

Ang. Field Horsetail. Urigo, Cat-tail.

Desc. Joint placed under pettate bodies which are arranged in whorls forming a  
like form raceme. few spiral filaments surround the seed (probably) which resemble  
in globules. (Fertile places mostly haphes. The stems of all are jointed with toothed  
sheath at every joint, & usually longitudinally striated & hollow. (Horvense)  
sterile stem simple naked, sheath broad sharp black distinct.

Use. It is a most troublesome weed in pastures, & is seldom touched by cows unless  
forced by hunger, when it occasions an incurable diarrhoea: it is eaten with impunity  
by horses, but it is noxious to sheep. This rough grass is employed for cleaning  
polishing tin vessels. According to Gleditsch, this species, as well as the  
male, or River horsetail, are of considerable service in tanning or dyeing leather.

Em.

Clas 19<sup>th</sup> Polyanth. ord. Pentagyn.

Hypericum. H. Perforatum. Ang. Common St. John's Wort.

Desc. Calyx five parted, divisions subovate: corol 5 petalled: filaments of  
stamens united at the base in 3 or 4 sets: styles 2 to 5: capsules roundish with a number of  
cells equal to the number of styles (Perforatum) stem 2 edged. leaves often having  
yellow dots. Perennial fl. yellow.

Use. It is eaten by goats, though refused by horses & hogs. The leaves are said  
to destroy worms, & the semi-pellucid dots found on them yield on distillation an  
essential oil. In Sweden the flowers are used to impart a purple tinge to spirit  
& the whole plant when dried & boiled in alum water, communicates yellow or  
brown red shades to yarn. The seed, bearing tops, contain a fine red colour, that  
appears on friction between the fingers: & more than any other vegetable, re-  
sembles gum lac. Dom. Inc.

The Hypericum Perforatum, or common St. John's Wort, according to Barton, in pure  
in spirits, is a valuable remedy in diarrhoea, & in obstructed perspiration. Mr. Bar-  
ton was affected in this way & after many various remedies to no effect he was  
in the state of any indisposition I met with a neighbouring gentleman, who

10  
The use of Bitters made by infusing the dried flowers & the top leaves of the plant called St. John's Wort, in Brandy & exposing to the heat of the sun six or six days to digest. I immediately procured some of these Bitters from another friend & took a small wine glass full. This very soon produced a grateful warmth in the stomach & bowels. Toward the close of the day I repeated the dose, but in somewhat smaller quantity. For three succeeding mornings, I continued it.

The gentleman who favored me with the medicine, & another with whom I also conversed concerning it, had found, invariably used it with success in their own cases of a like nature. The former told me, he had recently taken three glasses, in the course of a night, when afflicted with a violent diarrhoea, & that he was cured by that quantity. In my own case, the fact is, that I have had but one slight attack of the diarrhoeal symptoms since I took the medicine; & that was in the evening of the first day on which I used it. Since then I have been recovering my appetite, strength & spirits, & my natural state of body seems now restored. I firmly believe this medicine has produced this effect.

The St. John's Wort grows abundantly in our neighborhood, & probably, in most parts of this country. (Lancaster Pennsylvania.) It seems to be pretty generally known to people here, of German extraction, by whom it is considered as a specific in cases of diarrhoea, both for adults & children. The season in which it is gathered & dried is from the end of June to the end of August, when the flowers disappear. It is in bloom on St. John's (Baptist) day when our people say it ought to be taken in.

Dr. Mahlenberg first recommended this plant in diarrhoeas, & dysenteries. It is supposed the balsam or essential oil which is to be found in the pappi of the leaves or petals, which impart a fine colour to the spirit, in which the flowers are infused.

When it is given to children for what is called "the summer disorder" or "vomiting & purging" Dr. Mahlenberg recommends this tincture prepared with brandy, with the addition of a small quantity of cinnamon. This



may be mixed with a little sugar & water when the medicine is administered.  
I say also that it ought not to be given in dysentery, until some evacuating  
medicine has been previously used; but this precaution is not necessary in cases  
of mere diarrhoea. N. B. Phil. Med. & Phys. Jour. See my Met. Med. vol. 1. p. 87-

Clap 14<sup>th</sup> Order 1.  
Hypoxis. H. Officinalis. Ang. Hypox.

Gen. Desc. Corol. with the under lip 3-parted, its intermediate division subrenate  
stamens 6, distant. (officinalis) leaves lanceolate obtuse entire, perennial. fr. tri-  
lobed. It grows to the height of 18 inches; is a very hardy plant, & may be prop-  
agated either by slips or cuttings, or by seed. The leaves have an aromatic smell, & a  
somewhat pungent taste. They are particularly recommended in humoral asthma,  
coughs, & other disorders of the breast & lungs, being supposed powerfully to pro-  
mote expectoration. According to Ray, these leaves are of great service when  
applied in cataplasms to sores, the pain of which they speedily mitigate,  
at the same time disperse every mark or spot, from the part affected. Some

Clap 10<sup>th</sup> Order 1.  
Kalmia. K. Angustifolia. Ang. Narrow leaf Laurel. Act. Ord. Ericaceae

Gen. Desc. Calyx 5 parted. Corol. tub. salverform, with 10 horns beneath & 10 cavities  
within. Capsule 5 celled (Angustifolia) corymb. natural. plant small. perennial.  
woody. flowers red.

Use. Grows on sandy heaths & dry poor soils... Bee collect a delicious honey from  
this plant, which produces very disagreeable symptoms in those who eat of it. An  
ingenious experimental inaugural dissertation was published in Philadelphia in  
1802 by Dr. Thomas, upon this species of Kalmia, from which it appears that the  
leaves of this & the broad leaved Laurel abound with resin but that the narrow  
leaved is the most active of the two. From the same dissertation we find that a de-  
coction of the K. Latifolia, Broad leaved Laurel, prepared by putting one ounce  
of the leaves in eight ounces of water, & boiling it down to four ounces, cured a diarrhoea  
of eight weeks continuance. The dose at first was thirty drops six times a day

It but producing vertigo, it was diminished to four times a day. The itch was speedily cured by washing the parts with the decoction.

The Scald head, *Tinea Capitis*, was also cured by anointing the head with an ointment, made of the leaves & hog's fat. Dr. Barton bears testimony of the efficacy of this ointment in the *Tinea*. Dom. Enc. See my Mat. Med. vol. 1. p. 91

### Clas 5. Order 1.

Solanum. S. Lycopersicum. Ang. Love Apple.

Gen. Desc. Calyx permanent. corol bell, or wheel form, 5 lobed, plaited; anthers thickened with two grooves at the top. berry containing many seeds.

Use. A native of the West Indies whence it has been introduced into our gardens.

The love apple is greatly esteemed at table; it is either used in soups or broths, to which it imparts an agreeable taste; or it is boiled & served up as a garnish to dishes of animal food.

The cultivation of this excellent vegetable is rapidly extending in Pennsylvania, where a few years ago it was scarcely known. The apple stewed makes an excellent sauce for fish, & a fine catsup, which is used by the French in a variety of dishes. Ibid.

### Clas 17<sup>th</sup> Order 10

Lupinus. L. Albus Ang. White Lupine.

Gen. Desc. Corol 2 lipped; anthers 5 oblong, & 5 roundish; legume coriaceous, torn.

Use. The seeds of the white lupine have a leguminous, tho' disagreeably bitter taste, & are said to be vermifuge, both when taken internally, & applied externally. Some authors, however, suppose them to be of a poisonous nature; yet such seeds were much used by the Greeks as an article of food, & have been recommended by Galen as affording wholesome aliment. Bechstein says, that its flowers furnish the bees with abundance of honey. Ibid. (The seeds are used by many for coffee, & it is said that they are a good substitute. S. M. M.)

Clas 2. Order 2

*Urtica*. *C. Lutetiana*. Ang. Enchanters Nightshade.

Pen. Desc. Calyx 2 leaved. corol 2 petaled. capsule hispid, 2 celled, not gaping:  
all 1 seeded (*Lutetiana*) hairs ovate, a little toothed. from fl. white.

Use. Barrow says two males, one female. It was much celebrated in the mys-  
teries of witchcraft, & for the purpose of raising the devil, as its name imports. It  
grows amid the mouldering bones & decayed coffins in the ruinous vaults of the  
old church in Lincolnshire (Eng). The superstitions, ceremonies or histories belong-  
ing to some vegetables have been truly ridiculous: Thus the Druids are said to  
have cropped the Mistletoe with a golden axe or sickle, & the Bonyon or man-  
rake was said to utter a scream when its root was <sup>drawn</sup> taken from the ground,  
that the animal which drew it up became diseased & soon died; on which  
account when it was wanted for the purpose of medicine, it was usual to  
loosen or remove the earth about the root, & then to tie it by means of a cord  
to a dog's tail, who was whipped to pull it up, & was then supposed to suf-  
fer for the impurity of the action. And even at this day bits of druid roots  
of Peony are rubbed smooth & stung, & sold under the name of anodyne  
muskblaes. & tied round the necks of children to facilitate the growth  
of their teeth: add to this that in Pove's History of Cornwall, a book published  
about ten years ago, the Oriza Divinatoria, or Divining rod has a degree  
of credit attached to it. This rod is of hazel or other light wood, & held hor-  
izontally in the hand. & is said to bow toward the ore whenever the Conjuror  
walks over a mine. A very few years ago in France, & even in England, an-  
other kind of divining rod has been used to discover springs of water in a sim-  
ilar manner, & gained some credit. And in this very year, there were many in  
France & some in England who underwent an enchantment without any  
divining rod at all, & believed themselves to be affected by an invisible  
agent which the Enchanters called Animal Magnetism. (Bot. Garden

## Clas 5. Order 2.

*Apocynum*. *A. Androsemifolium*. Ang. Dog-bane.

Gen. Desc. Corol bell. form: stamens alternating with five filamentous pointed nectaries; stigma broad, almost sessile follicles long linear (Androsemifolium) cymid, corol spreading. Germ. red flower.

This is a fly catcher. In the *Apocynum Androsemifolium*, one kind of Dog-bane, the anthers converge over the nectaries, which consist of five glandular oval corpuscles surrounding the germ; & at the same time admit air to the nectaries at the interstices between each anther. But when a fly inserts its proboscis between those anthers to plunder the honey, they converge close & with such violence as to detain the fly, which thus generally perishes. This account was related to me by R. M. Darwin Esq. of Elton of Nottinghamshire, who shew me the plant in flower, July 2<sup>nd</sup> 1788, with a fly thus held fast by the end of its proboscis, & was well seen by a magnifying lens, & which, in vain repeatedly struggled to disengage itself, till the converging anthers were separated by means of a pin; on some days he had observed that almost every flower of this elegant plant had a fly in it thus entangled: & a few weeks afterwards, favoured me with his further observations this subject.

"My *Apocynum* is not yet out of flower. I have often visited it, & have frequently found four or five flies, some alive & some dead, in its flowers; they are generally caught by its trunk or proboscis, sometimes by the trunk & a leg. There is one at present only caught by a leg. I don't know <sup>that</sup> this plant drops, as the flowers remain open in the night; yet the flies frequently make their escape. In a plant of Mr. Badgley's, an ingenious gardener at Newark, who is possessed of a great collection of plants, I saw many flowers of an *apocynum* with three dead flies in each: they are a thin bodied fly, & rather leg than the common house fly; but I have two or three other sorts of flies arrested by the plant.

Bot. Gard.

Tropaeolum. T. Majus. Clas 8<sup>th</sup> Order 1. Aug. Destruction. Greater Indian Corp  
in Desc. Calyx 4 or 5 cleft, coloured, spurred; petals 4 or 5, unequal; nuts leathery  
 seeds. (Majus) leaves peltate, green. Fl. yellow. Exotic.  
 Miss P. C. Linnæus first observed the Tropaeolum Majus to emit sparks of light or  
 flashes in the morning, before sunrise in the months of May & June or July, & also  
 during the twilight in the evening, but not after total darkness came on; then sin-  
 gular scintillation were shewn to her father & other philosophers; & Mr. Wilke  
 celebrated electrician, believed them to be electric. It is this more wonderful  
 than the electric eel & toads should give shocks of electricity; & in this plant  
 in those animals, perhaps, it may be a mode of defence, by which it harasses  
 & destroys the night flying insects which infect it; & probably it may emit the same  
 sparks during the day, which must be the invisible. This curious subject deserves fur-  
 ther investigation. The ceasing to shine of this plant after twilight might induce one to  
 conceive that it absorbed & emitted light like the Bolognian phosphorus, or calcined  
 yster shells. The light of the evening, at the same distance from noon, is much  
 weaker, as I have repeatedly observed, than the light of the morning; this is owing I  
 suppose, to the phosphorescent quality of almost all bodies in a greater or less degree,  
 which they absorb light during the sun shine, & continue to emit it again for some  
 time afterward, tho' not in such quantity as to produce apparent scintillations. The  
 stalk of this plant grows from what is supposed to be the calyx; but this suppo-  
 sed calyx is coloured; & perhaps from this circumstance of its bearing the nucleus,  
 should rather be esteemed a part of the corol. - Ibid. See My Nat. No. 1. page 121

Clas 19. Syngenesia. Ord. 2. Forstanea

Calendula. C. officinalis. Aug. Margold.  
in Desc. Receipt. Nucleum. Papp. O. Calyx Polyphill. aequali. Sem. disci membranaceo  
 In Sweden a very curious phenomenon has been observed on certain flowers, by M.  
 Haggren, Lecturer on Natural History. One evening he perceived a faint flash of light  
 repeatedly flash from a Margold, surprised at such an uncommon appearance  
 he resolved to examine it with attention, & to be assured that it was no deception of  
 the eye, he placed a man near him, with orders to make a signal the moment he

16 observed the light. They both saw it constantly at the same moment. The light was most brilliant on marigolds of an orange or flame colour; but scarcely visible on pale ones. The flash was frequently seen on the same flower two or three times in quick succession but more commonly at intervals of several minutes. & when several flowers in the same place emitted the light together it could be observed at considerable distances. — This phenomenon was observed in the months of July & August, at sun set. & for half an hour after, when the atmosphere was clear; but after a rainy day, or when the air was loaded with vapour, nothing of it was seen. — The following flowers emitted flashes more or less vivid in this order.

1. The Marigold (*Calendula officinalis*)
2. Garden Nasturtium (*Tropaeolum Majus*)
3. Orange Lilly (*Lilium bulbiferum*)
4. African Marigold (*Taraxacum patulae & creta*)

Sometimes it was also observed on the Sun flower (*Helianthus annuus*). But bright yellow or flame colour, seemed in general necessary for the production of this light; for it was never seen on the flower of any other colour. From the rapidity of the flash & other circumstances, it might be conjectured, that there is something of electricity in this phenomenon. It is well known that when the petal of a flower is impregnated, the pollen bursts away by its elasticity, with which electricity may be combined. But M. Ray, given, after having observed the flash from the orange lily, the anther of which are a considerable space distant from the petals, found that the light proceeded from the petals only; hence he concludes that this electric light is caused by the pollen, which in flying off is scattered upon the petals. This. —

Malva. M. Sylvestris. Ang. Clap 16. Order 13.  
Common Mallows.

Gen. Desc. Calyx double, outer one 3. leaved, inner one 5 cleft: capsules many: 1-seeded (nyctagynous)  
stem erect. leaves with seven sharpish lobes. green. Fl. blue.  
Use. The leaves of the common Mallox proper & mucilaginous, sweetish taste, & were formerly often used in food, with a view to prevent costiveness. At present decoctions of this plant are sometimes prescribed in dysenteries, & urinary complaints. Tho' it is usually employed in emollient cataplasms, chylus & fontanations. The flowers are eagerly visited by bees, which obtain from them an abundant supply of honey.  
All the species of mallox both indigenous & exotic, are beautiful plants, well calculated for ornamenting gardens. Saffording grateful food for cattle; as they may easily be propagated by seed. Dom. Inc.

Clap 3. Order 2.

Poa. P. Pratensis. - Ang. Maadow Gras-

Gen. Desc. Calyx 2. valved, many flowered: corol ovate; valves 2. coloured, acutish, scarious at their margins; spikelets of the panicle ovate, awnless. (pratensis), panicle diffuse  
spikelets 4 flowered green.  
Use. It grows on dry banks, & even on walls; it flowers in the months of May & June. This plant thrives better in dry than in moist situations; whence it retains its verdure during hot & dry seasons longer than any other vegetable. Its root spreads along the ground almost as rapidly as the couch grass, & is nearly as difficult to eradicate: it ought therefore to be introduced with great caution, where the pasturage is not intended to be permanent. Though eagerly eaten by cattle, & esteemed to be one of the best grasses for hay, its value decreases as its quantity every year diminishes in dry soils; & it at length produces very indifferent crops. This diminution is occasioned by its roots matting together, & exhausting the land; which effects however, may be prevented by manuring the soil, & are not so perceptible on moist ground, where the plant will flourish, tho' not so luxuriantly as in dry situations. Id.



*Salvia leucantha*  
*Salvia leucantha*

99



*Scutellaria*. *S. Latiflora* - Eng. Skull-cap. Hooded Willow Herb. Mad-Dog-Weed.

Gen. Desc. Calyx with an entire mouth which is closed with a lid after the corolla falls out. Tube of corolla bent. (*Latiflora*) branching. Leaves smooth with a rough keel, racemes lateral & leafy. Perian. lower blue.

A native perennial plant growing on the banks of rivers & the borders of grounds. Flowering in the months of July or August. Its square stem is branched & attains the height of two feet. The leaves are heart shaped, narrow-pointed on short petioles & scalloped. The flowers are blue in pairs on pedicels from the axils of the leaves & pendulous. The herb is bitter & has a garlic smell; it is eaten by cows & sheep & goats, but is rejected by horses & dogs. - *Thaenius*

Use. This plant has recently & deservedly come into much repute for the cure of the bite of a mad-dog, or Hydrophobia. The virtues of it were first discovered by Jesse Lewis of West-Charles in the state of New York. & by him after successful trial in upwards of three hundred cases. Both in men & animals who were bitten by rabid animals. communicated to the world. The method in which the Lewis and the plant was to make a strong decoction or tea of it, & let the patient drink of it constantly for forty days, omitting every third day for the purpose of taking some gentle laxative. They and for this purpose flowers of sulphur. Care should be taken to wash the wound frequently in the day with a strong decoction of the plant.

Nothing is said with regard to excision, or cutting out the bitten part, yet this is a practice which ought never to be dispensed with, & it should be done as early as possible, & afterwards use the plant as above directed. Perhaps we cannot be justified in asserting that anything will cure the complaint after the symptoms have commenced, yet we have full & decisive evidence from physicians & others in all parts of the country in favour of its preventive effects in warding off this most terrible of all human maladies; & the Editor of the Evening Post. Mr. Coleman Esq. has mentioned instances of its performing a cure even after the symptoms had commenced. Its virtues are now completely established, & we may as well deny the efficacy of vaccination towards preventing the Small-pox, as this

80 Dr. Matt a celebrated Professor of Surgery in the University of New York, in a letter to me, upon the subject of Hydrophobia, says, "The excision I most certainly would take freely of the Santallaria; tho. we have no proof of its having the disease when it actually had invaded, yet the evidence is ~~so~~ strongly presumptive of its having prevented it. If it were my own person, after excision I most certainly would take it." - For further information on this subject see Macken's Dispensatory (J.W. Williams) not to be published.  
Cartheusen a German writer informs us, that the whole of this astringent vegetable may be employed for dyeing black, with the addition of green vitriol. (Thebes)

Clap 6. Order 3. Nat. Ord. Aparagi.

Mediola - M. Virginica. Ang. Indian cucumber. Cucumber root.

Gen. Desc. Calyx 5. corol deeply six parted, revolute: berry 3- seeded (virginica)  
Leaves in distant whorls. Fern. fls. white.

Use A genus of plants containing two species one of which Virginica is a native of the United States. ~~The~~ It is called Indian cucumber. The root is eaten by the Indians & the Editors of the Medical Repository call it The Delicate Cucumber Root.  
Dom. Use. See M. It is highly climatic. It is used in drops.

Clap 17. Order 10.

Melilotus - M. Officinalis. Ang. Melilot. In foil. Melilot clover.

Gen. Desc. Flowers racemid: calyx tubular 5. toothed: keel simple shorter than the wing, & damer: legume onyx. longer than the calyx (officinalis) stem erect stipules lance-nubulate. fl. white.

Use. An exotic plant growing on a stiff soil; on ditch banks; in thickets, hedge corn fields & meadows. Flowering in the months of June & July. This plant is eaten by sheep, goats, cows, hogs, & particularly by horses, which devour it with great avidity. Its fragrance increases when dry, & if its flowers be distilled they give a water, which, tho. possessing little odour in itself, imparts a very grateful flavour to other substances. - Beckstein remarks that the common

Mililot is frequently covered with mildew which renders it extremely obnoxious to cattle. Thus in Thuringia, a distemper prevailed lately among sheep great numbers of which died of a putrid fever, because this & other species of clover were through the whole summer affected with the mildew; nay even the leaves were then uniformly in a state of putrefaction Ibid. The Mililot is a principal ingredient in Puttredge's Bone ointment P. S. M.

### Clap 3. Order 2.

Milium. M. Effusum. Aug. Millet. Millet-Grass.

Gen. Desc. Calyx 2 valved, flowered, ventricose: corol 2 valved, very short: stigmas  
Uscil form (Effusum) panicl awlsh. exotic.  
Usc. Millet Grass is a native of Britain grows from 5 to 6 feet in height in moist shady woods, & flowers in the months of May & June. This plant is very beautiful, & tho' it has no useful property to recommend it to the industrious farmer, yet it deserves to be cultivated in shady gardens on account of its fragrant odour. Its seeds are eaten with great avidity by Linnetts.  
Besides its utility for feeding poultry, millet is highly esteemed for making puddings, & by many preferred to rice. As an article of food, however, it is by no means equal either to branched oats or barley, & ought not to be eaten by persons whose organs of digestion are weak, or impaired. Don. Enc.

### Clap 14. Order 1.

Leonurus. L. Cardiaca. Aug. Motherwort.

Gen. Desc. Calyx 5 angled, 5 toothed, corol with the upper lip villose, flat, entire; lower lip 3 parted, middle division undivided. (Cardiaca) upper leaves 3-lobed, entire. Uscil flowers white.

Usc. It grows in hedges, rubbish, on dung hills, & calcareous soils; flowering from June till August. - The leaves of Motherwort possess a strong disagreeable, & a bitter taste. Damboyne dyed with woolen cloth of an excellent dark olive colour, from a decoction of this plant. (Don. Enc.) It is said to cure convulsions, open obstructions of the viscera, & to kill worms: some account it excellent in diseases of the spleen. H. Books -

Class 18. Order 2.

Artemesia. A. Absinthium. Common Wormwood.

Gen. Desc. Calyx imbricate, with scales rounded, converging: corolla 0: receptacle somewhat villous or scabridish (flowers mostly rounded) Leaves Pinnatifid. (Absinthium) divisions of radical leaves obtus. of stem leaves acutish. frum. Exotic.

Use. It grows on road sides, rocky places, & on rubbish; it flowers in August. The herb is extremely bitter; & if it be infused in wort in the room of hops, it renders the ale very pernicious to health, on account of its intoxicating effects. On distilling the leaves & flowers they yield a considerable quantity of essential oil, which is used both externally & internally for destroying worms. If the leaves be put into sour beer they speedily correct its acidity; & being excellent antiseptics they are often employed in fermentation to resist putrefaction. According to Withering, an infusion of these leaves is a good stomachic, & with the addition of fixed alkaline salts, proves a powerful diuretic in some dropsical cases. This ash produces a power alkali than most other vegetables. The infusion of the same herb given to a suckling woman, renders her milk bitter, & if the plant be eaten by sheep, it also imparts a bitterness to mutton. Altho. the keys are fond of it (on the authority of Mr. Wolfear) yet it is not relished by horses & goats, & it is refused by cows & swine. If the plant be macerated in boiling water, & repeatedly applied to a bruise, by way of cataplasm, it will not only speedily remove the pain but also prevent the swelling & discolouration of the part. In dyeing, a decoction of the common wormwood produces, with the addition of alum &c. various shades of yellow; & if mixed liquor be applied to bedsteads, chests of drawers & similar articles it prevents the generation of vermin. The smoke arising from the lighted bundles of this herb, expels bees from their hives, when honey is to be collected without destroying these useful insects. - S. Enc  
See my M. N. vol. 1. page 51.

Clas Cryptogamia. Clandestine Marriage.  
Comunda. D. Repah. Ang. Royal Comund. Flowering Fern. or Royal Moonwort.

"The fair Comunda seeks the silent dell,  
The ivy canopy, & dripping cell;  
There hid in shades Clandestine rites approves,  
Till the green progeny betray her loves!" (Barrow)

This plant grows on moist rocks; the parts of its flower or its seed are scarcely dis-  
cernable; whence Linnaeus has given the name of clandestine marriage to this Clas. The  
younger plants are of a beautiful vivid green. This  
It grows in moist places, & boggy marshes, bearing flowers in the months of July &  
August... It is remarkable that impressions of the leaves of this vegetable are fre-  
quently met with in the nodules or small masses of iron stone found in the mines of  
Wharfedale. The root of the Comund Royal, boiled in water, affords a thick  
mucilage, which, in the North of Europe, is employed as a substitute for starch, to  
stiffen linen. On account of its viscid, sub-astringent nature it was formerly of  
use in the gout, as well as in the rickets. It appears, however, to be better cal-  
culated for external applications, in contusions & bruises, of which it is said to be  
powerful discutient;... as it smoothes & softens the skin, it makes a tolerable cos-  
metic; & is reputed for its property of discharging greasiness, & other humors from the  
face. Dom. Luc.

Clas 18<sup>th</sup> Order 2.

Chrysanthemum - C. Leucanthemum. Ang. Ox-eyed Daisy. White Head, Moon flower  
Gr. Dec. Calyx hemispherical, imbricate, with the scales membranous at the  
margin: receptacle naked: epact none, or a narrow margin. (Leucanthemum) Leaves  
clasping, obtuse or pinnatifid radical ones obovate, fern. fl. white. Dry meads  
pastures, & walls flowers in July & August.  
Use. The young leaves of this vegetable may be eaten in salads. Horses, goats,  
sheep & other animals eat this plant; but it is refused by cows & swine... Boarder recom-  
mends the cultivation of this flower by dividing the roots, & planting them on the  
best borders of gardens three inches deep; as it grows quickly in any soil, but more

Sh be watered as soon as planted - Dioscorides informs us that the leaves of the white or daisy, when bound afford a good application to cold skinous tumours & that a decoction of them, if taken by persons subject to the jaundice, immediately after coming from the tepid bath, will tend to restore their natural colour; (we have had no experience of its medicinal effects. Ibid.)  
See my M. M. vol. 1, page 64 -

Class 20<sup>th</sup> Order 16<sup>th</sup>

1. Pinus. P. Abies Americana. Ang. Common-hemlock tree.

Gen. Desc. Staminate flowers - calyx four leaved: stamens many: anthers naked  
Pistillate flowers - Calyx in strobili or cones, scales 2. flowered: Pistil 1: nut with a membranaceous wing (perhaps more properly a samara) woody - (Canadian) leaves flat denticulate, 2 ranked.

Ure. It grows to a great height, & rises especially in swampy ground, & is very straight. Its grain is coarse, & is not easily split, but is sawed into planks, joists & lathes. It holds a nail well, but if put in a house unseasoned, & exposed to alternate moisture & dryness, it rots in the course of two years. This fact was mentioned when treating of houses but it was also stated that young, well seasoned hemlock, was as durable as most other timber. The bark is used for tanning; it communicates a reddish appearance to the leather. The Indians dye their splints for baskets, of a red colour with it. The barked of the hemlock is used in some cases but is sparingly collected. Ibid. - The leaves & branches boiled in water, make an excellent fomentation for acute pains & bruises. I. M. M.

2. Pinus. P. Abies Bahamae. Ang. Balm of Gilead. Fir tree.

Gen. Desc. As above - Leaves flat, emarginate.

Ure. This balm exudes spontaneously from the trunk of the tree. It is of a light yellow colour, tenacious & inflammable. By keeping, it becomes thicker; its smell agreeable; its taste pungent. It is soluble in alcohol, & oils & affords an essential oil by distillation.

The medicinal virtues of this balm seems to be the same as those of copaliba, & it is used for the same purposes. Its dose is from thirty to fifty drops  
Thacher.

Clap 6. order 3.

Alisma. A. Plantago. Ang. Water Plantain - or Throm. Mast.

Gen. Desc. Calyx 3-lobed. Petals 3. capsule numerous, seeded (plantago) leaves heart-shaped. From fl. white. Watery places. & on the banks of pools & rivers. flowers July. Aug.

Use. This acid & poisonous vegetable is extremely deleterious to sheep & cattle; hence it ought to be carefully eradicated in the spring or summer, before it can be further propagated by its seed. Dom. Inc. See page 164.

Clap 8. Order 3.

Polygonum. P. Pericaria. Ang. Spotted Polygonum or heart case

Gen. Desc. Calyx inferior, 5 parted, coloured. corol 0: seed 1. angular, covered with the calyx (stamen & pistil vary in number. The calyx in some species might be taken for a corol) (pericaria) Stamens 6, styles 2. peduncle smooth. stipules white - annual. flower white. purple.

Use. A native & common plant of the United State. Dr Banar of Jamaica writes upon the authority of Mr. Treloar of Jamaica, that an infusion of the dried plant, or a decoction of the fresh plant, is a powerful promoter of urine, & very useful in the gravel. Ibid. See page 129

Clap 13. Order 1.

Papaver. P. Somniferum. Ang. White or Wild Poppy -

Gen. Desc. Calyx 2-lobed, caducous. corol 4. petalled. capsule 1 celled. deliquescent by rows under the permanent stigma (somniferum) leaves clasping, annual. fl. exserted.

Use. It grows in gardens; flowers in the months of July & August. The juice which it makes exudes, exudes from the head of this species, is supposed to inspissate by the heat of the sun, & then affords the drug called Opium. An extract is prepared from these seed vessels, which being less powerful than the foreign opium, is given in double quantity to produce similar effects. The seeds are very nourishing; are directed of the narcotic property of the flowers, & yield an expression of sweet oil, little inferior to that of almonds; hence they are often employed

26 as an article of diet. - Linnaeus counted in one Poppy-head 32,000 seeds, & as there are white & blue grains, we understand from an experienced gardener, that the former, when found in head, the capsule of which is of a bluish cast, are most successful for propagating the species, & likewise afford a larger proportion of the sweet oil than the blue seed. God

### Clas 6. Order 1.

Cornus. P. Verticillata. Fr. Black alder. Winter-berry-

Fr. Des. - Calyx inferior, 6, cleft: corolla wheel form, 6 cleft; berry 6, seeds verticillate. Leaves obovate lanceolate, acuminate. Berries red, permanent, woody, white flowers.

Use. It grows in moist places, generally sending up several slender stalks, to the height of ten feet... The inner bark of this tree applied as a poultice, is much used for promoting suppuration in tumours; & a decoction of it for preventing mortification in wound fractures & ulcers. Jointed with the bark of the Liriodendron (poplar) or Sassafras root, forms a fashionable & successful remedy in the country for the intermittent fever. The virtues of this medicine certainly deserve attention from Physicians. Dom. Use.

Dr. Amos Gregg of Bristol Penn. has used the Cornus Verticillata in intermittent & other fevers with great success. He generally gives three drams of the powdered bark in six ounces of water, which prevents a return of the fever. He observes: - "When it is exhibited in powder, I am disposed to believe that it is nearly equal to the celebrated bark of Peru. When the stomach would retain the powder, I did not fail in a single instance; & in one case only was it rejected. Like the Peruvian bark it succeeded best when it was given immediately after the sweating stage. In general I gave it alone but to prevent diarrhoea, an effect it occasionally produced (though less commonly than the Peruvian bark), & to prevent pain, I sometimes added a few drops of laudanum. - In one instance only I applied it to the skin. One of my patients, a child which using the decoction of Cornus, discharged worms. It is no uncommon thing to see worms discharged during fevers, & future experiments must decide whether, in this respect the Cornus is supe-



is the other bitter-tonics. The bark of this vegetable makes an agreeable  
with proof spirits."

The bark is manifestly astringent. It is likewise considerably bitter & pungent.  
Germ. which are of a fine red colour, greatly partake of the bitter quality; & of course  
in wine or brandy might be advantageously employed in cases where bitter tonic  
are exhibited. In intermittent fevers it is both given internally, & employed  
externally as a wash. On many occasions, it appears to be more useful than Pe-  
rusian bark. It is useful in onychia, united with the root of sansevieria  
decoction, &c. Care must be taken to distinguish our germs from the swamp  
elder or candle elder. Thacher. See my Met. Med. vol. 1. Page 107.

Clap 6. Order 2.

Juncus. J. Effusus. Ang. Common or soft Rush. Bull Rush -  
Gen. Desc. Germ 2. valved: calyx 6 leaved permanent: stigmas 1 or 3 celled, 3 valved,  
many seeded. (effusus) culm round, smooth, panicle lateral. from Wet meadows  
& pastures flowers from June to August.  
Use. It is eaten by horses & goats. it is also used for rush lights, & sometimes  
manufactured into wicker baskets. The common rush is cut about midsummer  
in the vicinity of Fasham, & dried in the same manner as hay; after which it  
is formed into a kind of snow, & sheltered till the succeeding spring, when on ac-  
count of its toughness it is usually employed for bands or ties, in fastening  
ropes to the poles... In a fresh state it is further converted into brooms or  
brushes for blacksmiths, & other artisans working in metals. Don L.

Clap 2. Order 1.

Salvia. S. Offinalis. Ang. Sage.  
Gen. Desc. Calyx tubular 2. lipped, under lip 2. toothed: corol ringent: filaments  
transversely affixed to a pedicel (offinalis) leaves pinnate. from flor. the purple  
toxic.  
Use. There are several varieties of this species, namely the common green sage, the  
rosewood sage, the green & red sage, both with variegated leaves; & a French kind  
with red or blackish leaves, the last of which is most commonly cultivated together  
with the rosewood sage. This flower furnish bees with honey & wax. The whole  
plant is exceedingly grateful to sheep, & imparts a delicate flavour to the flesh.

80 Juice of these animals— In a medicinal view, sage moderately warms & strengthens the alimentary canal; hence in cold phlegmatic habits, it excites appetite & may be of service to persons labouring under nervous debility. The best way of taking it, is by an infusion of the dry leaves used as a common tea; or a tincture or extract, made of rectified spirit & given in proper dose. These preparations contain the whole virtues of the sage, while the distilled water & essential oil possesses only the warmth & aromatic quality, without any of its bitterness or astringency. Watery infusions of the leaves, with the addition of Lemon juice, form an useful drink in febrile disorders & are very grateful to the palate. Ibid.

Clas. 14. Order 1.

Saturgia. S. Hortensis. Aug. Summer Savory.

Gen. Desc. Calyx tubular, striate: corol with divisions nearly equal: stamens distant: (Hortensis), peduncles axillary, 1 or 3 flowered, leaves lanceolate: annual. fl. blue. erect.

Use. This plant is propagated from the seed which ought to be sown in August on beds of light earth. If the plants are intended to remain in the same situation, the seed should be sparingly scattered; but if they are designed to be transplanted it may be sown more closely.

Both the summer & winter savory have long been cultivated in the British gardens for culinary & medicinal purposes. This warm, aromatic & pungent leaves, are much esteemed in salad; formerly they were employed medicinally with a view to attenuate viscid humours, to dispel flatulency & to increase the appetite. According to Professor Bradley, this herb when dry & put into a bed, possesses the remarkable property of expelling fleas. Ibid.

Clap 8. Order 3.

Acer. A. Striatum. A. Canadense. Ang. Striped or Canada Maple.

Gen. Desc. Polygamous. Calyx 5 cleft. corol 4 or five parted. Samaras 2 united at the base 1 seeded. woody.

Use. It is of a middling growth. The bark is beautifully variegated or striped. The leaves are divided into three <sup>very</sup> sharp pointed lobes, & finely serrated on their edges. The flowers are produced on whitish bunches with short foot stalks & are of a greenish yellow cast. Ibid.

Clap 20. Order 13.

Arum. A. Triphillum. Ang. Indian Turnip.

Gen. Desc. Spatha cucullate: spadix not entirely covered with the fructification, being more or less naked above, with pistillate flowers beneath & staminate in the middle. (a few sometimes a few are staminate beneath) Berry mostly 1 seeded, generally axillary. glandular beneath (Triphillum) leaves ternate, with ovate entire leaflets. naked part of spadix very long clavate. green. flow. purple, yellow, greenish.

Use. A Gums Sago is prepared from the root of this plant. The following letter from Edwin L. McCull, student of medicine in the University of Pennsylvania, to Benjamin S. Barton, M.D. shows the method of preparing it:-

"Like all the Aras, this species contains a very acid juice, which may be separated by repeated affusions of cold water. By experiment, I have ascertained that the proportion of Gums Sago to the aggregate is one to four; two ounces of the root freed from the exterior coat, yielding half an ounce of the pure, white & delicately flavoured powder. -- The process for obtaining it is very simple & consists, 1<sup>st</sup>. In peeling off the outer coat of the roots. 2<sup>ndly</sup> By reducing them to a pulp, by bruising, scraping, or grating. 3<sup>rdly</sup> by placing the pulp in a strainer, adapted to a tub, or any convenient vessel, & pouring cold water through, which passes through carrying the sago & acid juice along with it, & leaving the parenchyma on the strainer. 4<sup>thly</sup> separating the milk powder from the acid juice by repeated ablutions. And 5. pouring off the water, & drying the

90  
 powder which is now fit for use. - The acrimony of the recent part root of this plant, is well known. By drying much of it is lost. It has been very beneficial in asthma, especially in old people, in croup, & whooping cough. The recent root, boiled in Card has been found useful in *Tinea capitis*. The dried root, boiled in milk, in the proportion of one root to half a pint, has been advised to be employed in consumption. Some acrimony should be perceptible to the tongue & throat in its exhibition. It never affects the general circulation, says Dr. Mead, but acts solely on the parts just named; to the glands of which it is a powerful stimulus, causing a copious secretion of mucus. (See my M. M. Vol. 1. page 52)

Clap 10<sup>th</sup> Order 1.

Prenanthes. P. Alba. Aug. White Prenanthes, White Lettuce, Gall of the Earth.

Gen. Desc. Root, in a simple series or in one circular row; calyx calicled; sepal each naked; corolla imbricate, 5 lobed. (alba) florets numerous, leaves angular & halberd form, toothed, flowers nodding. green. flower white.

Use. It is the famous Indian cure for the bite of venomous serpents, & is called in Savannah the Gall of the Earth. Its alkali appears to be extricable in the herbaceous state. Its leaves are lactescent & every part of the plant is intensely bitter. J. Boissell.

Clap 10. Order 2.

Tanacetum. T. Vulgare. Aug. Common Tansy.

Gen. Desc. Calyx imbricate, hemispheric; scales acuminate; rays obsolete & cleft; corolla somewhat marginal; receptacle naked. (Flowers corymbose) (Vulgare) leaves doubly pinnate green. fl. yellow. exotic.

Use. This plant possesses a warm bitter taste; it is diobstruent, not unqualified to the palate; & may be used as a substitute for hops; the tender leaves are sometimes employed to impart a colour, & flavour to puddings; according to Withering, its seeds are an excellent vermifuge; & if any animal substance, be rubbed with this herb it will effectually preserve it.

in the attack of the flesh fly. Tansy tea is recommended as a preservative of the fount. From the expressed juice of this vegetable the Indians obtain a green dye. The plant is eaten by cows & sheep, but not by horses, goats & hogs. Bon. Enc.

Clas 18. Order 1.

Carduus Lanceolatus. Ang. Spear Thistle.  
Gen. Desc. Calyx ovate, imbricate, with prickly scales: receptacle villous: involucre pilose:—

Ure. According to Withering this species vegetates on ground newly tilled &c. when no other weed will thrive; under the shelter it affords, new plants will speedily appear, & the whole become fertile. Its flowers like those of the stitchwort, possess the property of curdling milk. It is not relished by horses, cows, or goats; & is especially refused by sheep & swine — see next art.

Carduus Benedictus, or Centauria Benedicta. Ang. Blasted Thistle

Gen. Desc. As above — Ure. This is an annual exotic cultivated in gardens. It flowers in the months of June & July, & produces ripe seed in autumn. Its leaves possess a penetrating, bitter taste, & an ungrateful flavor, which by keeping them, for some time is mostly dissipated. A decoction of this rancorous plant is sometimes used to excite vomiting; & likewise a strong infusion to promote the operation of other emetics. Good effects have occasionally been derived from the Blasted Thistle, in loss of appetite, or when the stomach was impaired by irregularities. A strong infusion either in cold or warm water, drank freely, occasions copious perspiration & promotes the secretions... All the species of this neglected vegetable, may be usefully employed for various purposes. Thus the seed-corn of the Thistle afford both a valuable material for manufacturing paper & a kind of strong cloth: the ashes obtained by burning the whole plant are of great service in glass houses, & the young tender, mealy stalks may be chopped & eaten as substitutes for Asparagus &c.

Clap 13. Order 13.

Clematis. C. Virginiana. C. vitalba. Ang. Virginiana. Lowe. Traveller's Joy

Gen. Desc. Calyx 0: petals 3, 4, 5, or 6: seeds compressed, styles prominent becoming long tails (some species are dioecious) (virginiana) dioecious climbing, leaves ternate with climbing petioles. frum. flor. white. Calcareous soil St. Jun. frum.

Use. It is easily propagated by layers or cuttings - The fibrous stalks of this vegetable may be converted into paper. The whole plant is very acid to the touch; on which account it is frequently employed as a caustic for cleansing old ulcers. Both leaves & branches may with advantage be used in dyeing - Beck & Dambourney obtained from the latter alone a yellow decoction. - Beck stem observes that the hard, compact, yellow, & odoriferous wood of this shrub furnishes an excellent material for veneering. Wid. See my M.D. p. 6.

Clap 18. Order 3.

Achillea. A. Millefolium. Ang. Common Yarrow. Nat. ord. Corymbifera

Gen. Desc. Calyx imbricate, ovate: corolla 0: receptacle chaffy: florets of the ray 4 to 10 dilated. (flowers corymbid) (millefolia) leaves doubly pinnatifid, stem grooved. frum. white.

Use. The flowers of this vegetable give an essential oil which possesses an aromatic odour, a bitter taste & is similar to that of chamomile. A decoction of its leaves with chamomile flowers is said to form a corroborant diet drink for children who on account of their rapid growth are unable to retain their water, during the night: but for this purpose from one to two pints of such preparation ought to be taken in the course of 24 hours. Linnaeus observes, that the Dalians have a practice of throwing the flowers, & leaves of the common yarrow into beer, which in a state of fermentation with a view to increase its intoxicating effects. Bastich in Germany, has usually employed the whole herb in the process of tanning.

Wid.

per my M. M. vol. 1. page 22  
captioned that is below Chap 18. Order 1. The following description is given in  
Eupatorium. E. Pe. foliatum. Ang. Thoroughwort. Bone set  
Desc. Calyx imbricated (rarely simple) oblong: style long, above halfway  
in: erect pilose or rough flapsillose: red black naked: Florets 6 or more.  
foliatum, leaves comate. Perfoliate, downy, pinn. flower white  
loc. This is a native annual plant, flourishing abundantly in wet meadows  
of the moist places. The stalk is hairy & rises from two to four feet, per  
forating the leaves at each joint, from which it is sometimes called thorough  
stalk or stem. The flowers are white & appear in July or August, forming a  
corymbus at the termination of the branches. The leaves at each joint are hor-  
izontal, serrated & rough, from three to four inches long, & about one inch  
broad at their base, gradually lessening to a very acute point, of a dark green  
& covered with short hairs. Thoroughwort certainly possesses active properties,  
& deserves the attention of American Physicians. It acts powerfully as a re-  
sorbic & emetic, & sometimes as a purgative, & has been successfully em-  
ployed in intermittents & other fevers, either in decoction, or the leaves in  
powder. Every part of the plant may be advantageously employed though  
the flowers appear most active. A watery infusion of the leaves, is a power-  
ful & not disagreeable bitter, & the flowers are deemed superior in this re-  
spect. To those of camomile & ought to be kept in the shops. The dried  
leaves in powder, or made into pills, with Ambric extract, given in do-  
ses of 12 or 15 grains are of excellent effect as a mild laxative, obviating  
costiveness without inducing debility or heat; correcting bile & promoting  
respiration. This plant is frequently employed in the country as a downy  
in diseases of cattle. There are several species in the United States. I have  
saw an affection of the extremities, & in such a case it may be considered a disease  
of debility. The alcoholic tincture of eupatorium may be safely recommended as  
an excellent tonic; & in addition to its tonic effects, the properties of a diuretic  
renders the employment of it still more advantageous in cases of this description. (Nacken)

Clap 18. Order 1.

Asclepias. A. Lappa. Ang. Burdock

Gen. Desc. Calyx globose, with scales hooked at apex: corolla chaff-bristly: receptacle chaffy (Lappa) stem leaves cordate. Biennial. flow. purple. Flower. July. August. Use. This is a common plant about way sides, sufficiently known from its scaly heads, or bur which stick to the clothes. The seed have a bitterish sub-acid taste: They are recommended as very efficacious diuretics, given either in the form of emulsion, or in powder, to the quantity of a drachm. The roots are esteemed aperient, diuretic, & sudorific, & are said to act without irritation, so as to be safely used in acute disorders. Decoctions of them have of late been employed in rheumatic, gouty & venereal disorders, & are by some preferred to sassafras. Wid.

Clap 19. Order 5.

Asclepias. A. Decumbens. Ang. Pleurisy root. Butterfly-Mead Swallowwort

Gen. Desc. Follicles 2. nectaries 5. concave, containing a little honey: petals reflexed. Use. This species of swallow wort is one of the most beautiful biennial plants, flourishing best in a light sandy soil, by the way-side, under fences, & near old stumps in rye-fields. It abounds in the Northern states, but with us it is not so frequently found. There are sometimes fifteen or twenty, or more stalks, the size of a pipe-stem proceeding from one root, rising from one to two feet in height, & spreading to considerable extent, generally in a decumbent position. The stalks are round & woolly, of a reddish brown colour on the sun-side; the leaves stand irregularly, & are spear or tongue shaped, with a short footstalk, & covered with a fine down on the under surface. The umbels are compact at the extremities of the branches, & formed like the common silk weed, but differing from it in the colour of the flowers, being of a beautiful bright orange colour, while those of the silk-weed are of a pale pinkish hue. The flowers appear in July & August, & are distinguished by their size & brilliancy from all the flowers of the field. These are succeeded by long slender pods, containing the seed, which have a delicate kind of silk attached to them. This is probably the only <sup>variety</sup> kind of asclepias that is destitute of a milky juice. The root is spindle or carrot-shaped, of a light brownish colour on the outer surface, which coarse, & striated within. The roots of this plant is a valuable addition to our Materia



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licia, having been found to possess medicinal virtues of no inconsiderable  
importance. It has long been celebrated in Virginia & the Carolinas, as a remedy  
in pleurisy, & of pneumonic affections in general. It is said to display a remark-  
able power of affecting the skin, inducing general & plentiful perspiration without  
weakening the body. In the form of decoction it often induces a diaphoresis, when other  
medicines have failed to produce that effect. We have the testimony of Professor  
Barton in favour of the great efficacy of this medicine in pulmonary affections -  
After the loss of some blood & the use of an antimonial emetic, Dr. Thomas Mason  
of Virginia, who has used this root in pleurisy sufficient to establish its reputation,  
he gives his patients about half a dram of the root, finely powdered in a cup of  
warm water, & repeats the dose every two hours, until the patient is perfectly  
recovered, which happens frequently in three days. Dr. Mason asserts that by  
this simple means he has cured hundreds, & never failed in a single instance -  
The powdered root frequently acts as a mild purgative, but it is particularly  
valuable for its virtues as an expectorant, diaphoretic, & febrifuge, & in this  
respect its efficacy is amply confirmed by the testimony of Dr. Benjamin Par-  
son of Bradford, Massachusetts, from his own observation during an extensive  
practice in Virginia. From the successful employment of the pleurisy root  
for twenty-five years, this respectable physician, has imbibed such confidence  
that he extols it as possessing the peculiar & almost specific quality of acting  
on the organs of respiration, powerfully promoting suppressed expectoration,  
& thereby relieving the breathing of pleuritic patients in the most advanced stage  
of the disease; & in pneumonic fever, recent colds, catarrhs, & diseases of the  
chest in general, this remedy has in his hands proved equally efficacious -  
He directs it to be given in the form of strong infusion, a tea cup full every  
two or three hours. By many families in the country this root has been  
long esteemed as a domestic medicine, resorted to for the relief of pains in the  
stomach, from flatulency & indigestion, hence the vulgar name of wind  
root, by which it is commonly known in some parts of the country, & from its  
colour it is by some called white root. It is said that by a perseverance for  
several weeks, in the use of about one drachm of the powdered root every day, the  
force of the tone of the stomach, & digestive power has been restored. This -

Casia. C. Marylandica. Clas 10. Order 1  
Ang. American Senna.

Gen. Desc. Calyx 5 leaved: corol 5 petalled: anthers 9 lower ones beaked: Legume  
membraceous. (Marylandica) pinnate leaflets 8 paired. flower fl. yellow.

Ure. This plant is abundant in America, & known by the name of senna of  
the shops, & possesses nearly the same virtues as the eastern species. It is used as a  
purgative, in different parts of the United States, & from the high price of for-  
eign senna, deserves to be attended to. It is easily cultivated from the seed, & ought  
to be generally introduced into our gardens. Ibid.

Clas 3. Order 1.

Crocus. C. Sativa. Ang. Garden Saffron.

Ure. Saffron is a bulbous rooted perennial plant, very generally cultivated in gardens  
in European countries. The smell of saffron is pleasant & aromatic, but narcotic; the  
taste a fine aromatic bitter, & immediately gives a deep yellow colour to the saliva when  
chewed. The active matter is equally extracted by alcohol, water, proof spirit & wine  
liquors. This drug was formerly considered an excellent remedy in hysterical disposi-  
tions originating from spasms, or in obstructions of the uterine secretions; but in  
modern practice it is seldom employed, though it enters into several medicinal  
preparations. The best saffron is that raised in England: it ought to be of a deep  
red or orange colour, fresh & tough, though neither too dry nor too moist, & of a  
strong but pleasant aromatic odour. The common saffron of our gardens if  
properly prepared by macerating with brandy & pressing into cakes, will be  
found a tolerable substitute for the imported drug. Ibid.

Clas 13. Order 1

Geranium. G. Ubanum. Ang. Roman, or Herb Bennet

Gen. Desc. Calyx 10 cleft & alternate divisions smaller: corol 5 petalled:

with a bent over: receptacle columnar, yellow -

This plant grows by fences & borders of fields the flowers are white or yellowish  
July. According to Dr. Willich the root of avens has lately been employed with  
singular efficacy in the cure of obstinate agues. A strong tincture of the root given  
in quantity of half an ounce, or the decoction of ~~the~~ powder, in doses of one drachm  
several times a day, has seldom failed to cure intermittents where the Peruvian bark  
proved ineffectual. The root has also afforded an excellent remedy in several  
menstrual disorders as a general strengthener & astringent, & its antiseptic power is  
to be superior to the best Peruvian bark. Dr. Withering says the roots gathered  
in the spring & put into beer give it a pleasant flavour & prevent its grow-  
ing sour. Infused in wine it is a good stomachic says Dr. Cutler. When it grows  
in warm dry situations, its taste is mildly astringent & aromatic. (Thacher)

It is a good febrifuge & is really an excellent substitute for the genuine  
bark in the cure of intermittent fevers, dysentery, chronic diarrhoeas, wind colics, af-  
fections of the stomach, asthmatic symptoms, & cases of debility.

Preparation. After the patient has taken a purge of the American species  
of bark, & the fever is off, a tea-spoonful of the powder may be administered every  
hour until the fever is broke. See my stomach bitter mentioned in this work. Henry's  
Medical Botany in order to prevent a relapse.

The following is Mrs. Shaw's preparation of Indian chocolate, which is strongly  
recommended as an effectual cure of consumptions: Take of avens root two  
ounces: arum root half an ounce; in powder; ginseng & mastwort, each half  
an ounce; sugar candy one ounce. Mix one table spoonful of these powders  
boil them in one quart of rain water, & one pint of New Milk for an hour.  
In all debilitating complaints, or beginning consumptions, the patient may  
take two tea-cups of this chocolate, morning & evening sweetened with loaf sugar  
to be used every day for two hours before dinner. Thus I have made known  
a valuable public secret, with some valuable additions which will be  
of great utility to the community. (Henry's Medical Botany)  
See my Med. Bot. vol. 1 page 82

Clap 3. Order 1.

Juncus. J. Virginiana. J. Pseudacorus. Aug. Water Flag. Flowers blue. Blue flag.

Gen. Desc. Calyx, spathe & ovary: corol 6 parted, divisions alternately reflexed. stigmas petal like.

Use. This plant is perennial, & grows in great abundance by the banks of rivers, & in other watery places. It blossoms in July; its flowers are blue, variegated with white, yellow & purple; its leaves are sword shaped. The root has an acid taste, & when fresh are highly cathartic. The expressed juice of the root recently gathered given to the quantity of sixty or eighty drops, every hour or two, & occasionally increased, has been productive of very copious evacuations, after jalap, gamboge & other strong purgatives had proved ineffectual. — Thacher

Clap 5. Order 1.

Lobelia. L. Inflata. Aug. Indian Tobacco. Emetic weed—

Gen. Desc. Corol irregular, often irregularly shitted; anthers cohering & somewhat curved. Stigma simple; capsule 2. or 3 celled. (inflata) capsule inflated. biennial. fl. white, blue

Use. The lobelia inflata is indigenous & ~~is~~ rising one or two feet, with branched stems. The leaves are oblong, alternate, slightly serrated & sessile. The blossoms are whitish, in a kind of spike, of a pale blue colour. It is found common in dry fields among barley & rye stubble, & flowers in July & August; its capsule are inflated & filled with numerous small seed... The leaves when at first insipid.

Says Dr. Cutler but soon become pungent, occasioning a copious discharge of saliva. If they are held in the mouth for some time, they produce giddiness & pain in the head, with a trembling agitation of the whole body; at length they bring extreme nausea & vomiting. The taste resembles that of tartar emetic.

It was employed by the aborigines as an emetic, & also by those empirics who affect to deal in Indian remedies only. It has been found to operate as a speedy & active emetic, & it often induces a smart profuse perspiration immediately after having been received into the stomach. It has proved serviceable in cases where emetics were indicated. In a variety of instances it has been administered as a remedy in asthmatic affections, & on competent authority is

assured, that it has in general manifested considerable efficacy & some-  
times proved more beneficial in this distressing disease than any other medicine  
on some of its effects, says an eminent physician, Lobelia seems to be related  
to some of the narcotic plants; to the mouth & first passages it proves a cordial & high  
stimulant; its stimulus seems to be of the diffusive kind, as Dr. Cuthbertson taking  
experienced an irritation of the skin over the whole body. It is probably one of the  
most powerful vegetable substances with which we are acquainted & our rational  
actions will have recourse to it but with the greatest precaution. It has  
been fatal in the hand of a noted empiric. The dose in which he is said usually  
to prescribe it, & frequently with impunity, is a common tea spoonful of the pow-  
der seed or leaves, & often repeated. If the medicine does not purge, or evacuate  
effectually, it frequently destroys the patient, & sometimes in five or six hours.  
Horses & cattle have been supposed to be killed by eating it accidentally.  
Dr. Cuthbertson, who had been affected for years with "a convulsive asthma from fulmen  
irritation of effused serum" says, I had a tincture made of the fresh plant & took  
to have the spirit fully saturated, which I think is important. In a par-  
oxysm which perhaps was as severe as I ever experienced, the difficulty of breathing  
continued, & after it had continued for a considerable time, I took a table spoonful  
three or four minutes my breathing was as free as <sup>it</sup> ever was, but felt no nausea  
at the stomach. In ten minutes I took another spoonful which occasioned sick-  
ness. After ten minutes I took the third, which produced sensible effects upon  
the coats of the stomach, & a very moderate purging, & a kind of prickly sen-  
sation thro' the whole system down to the extremities of the fingers & toes. The  
urinary passage was perceptibly affected by producing a smarting sensation in  
the ureters, which was probably produced by stimulus upon the bladder. But  
all these sensations very soon subsided, & vigour seemed to be restored to the con-  
stitution, which I had not experienced for years. I have not since had a parox-  
ysm, & only a few times one small symptom of asthma. Besides the violent  
attacks, I had scarcely passed a night without more or less of it, & often so as not  
to be able to lie in bed. Since that time I have enjoyed as good health, as, per-

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has before the first attack. — A particular case has been related to me of  
an effectual cure of the Hydrophobia, in the last stage of the disease by the use  
of this plant. — With the view of establishing a uniformity of strength in the  
preparation, the Essex district medical society have agreed that the proportion  
for the tincture of lobelia shall be two ounces of the dried plant to one pint of  
diluted alcohol. — In numerous instances of asthma it has procured the  
most essential relief, though in general its effects were only temporary & pal-  
liative. As a pectoral it has been found useful in consumption & other coughs  
depending on mucus accumulated in the bronchial vessels by exciting nausea  
& expectoration. From its very speedy operation as an emetic, its stimu-  
lating effects upon the mouth & fauces, beneficial effects might be expect-  
ed from its use in croup & whooping cough; & on some trials our expectations  
have been realized in this respect. It may perhaps be anticipated to super-  
sede the use of seneka as a remedy in the fauces, & antimonials in the latter  
affection. — The leaves should be collected in August when the plant  
is in blossom, & carefully dried & preserved for use. From ten to twenty grains  
of the powdered leaves will in general be found a suitable dose as an emetic  
for an adult, or it may be repeated in smaller quantities. As a pecto-  
ral it may be given in powder or in pills alone, or combined with other  
remedies, repeated in small doses till an evident good result is observed.  
Of the saturated tincture, twenty, forty, or even sixty drops may be safely  
given to children one or two years old, increasing as occasion may require.  
See Thacker's Dispens. 2<sup>nd</sup> edition

Class 10. Order 10.

Phytolacca. P. Decandra <sup>Pringle</sup> Shoke, American Nighthede. Gayet. Pke.  
Gen. Desc. Calyx 0. cord & petalled, calyx-like inferior. Berry 10 celled, 10 seeded —  
(Decandra) leaves ovate, acute, racemes simple. stem. fl. white, berries red.  
Use — This is one of the most common North American plants, well known  
in New England by the name of curium, shoke, or cockum. In the south

it is called ~~scorbutic~~ *Phytolacca*. It has a thick, fleshy, perennial root as large as  
a turnip. From this rise many purplish herbaceous stalks about an inch thick  
in or seven feet long; which break into many branches irregularly set with large  
lanceolate leaves, supported on short foot stalks. These are at first of a  
pale green colour, but as they grow old they turn reddish. At the joints & divisions  
of the branches, come forth long bunches of small, bluish coloured flowers  
consisting of five concave petals each, surrounding ten stamina, & ten styles  
which are succeeded by round depressed berries, having ten cells each of which  
contains a single smooth seed. The young stems when boiled are as good as aspar-  
tagus, but when old they are to be used with caution, being a plant of great ac-  
tivity, operating both as an emetic & cathartic. A tincture of the ripe berries

is a popular remedy for rheumatism, & similar affections.  
The juice of the berries is a popular remedy for rheumatism, & similar affections.  
it may be given with safety & advantage in all cases where quackum  
is proper. The extract of the juice of the ripe berries has been employed  
in some cases of scrofula; & cancerous ulcers have been greatly benefited  
by its application. The juice of the leaves, however is said to be more effectual

Dr. George Hayward of Boston has found by experiment, that the root  
contains the most active principle of the plant, & this he gives in substance.  
He gives it doses of a scruple of the finely powdered root, which has always op-  
erated as an emetic & cathartic. It generally commences its operation in an hour &  
rarely continues longer than three or four. It excites little or no nausea previous  
to its operation; & tho. it makes a powerful impression on the system, it never has  
produced any disagreeable or unusual symptoms. I have never noticed, says the  
doctor, any dizziness, vertigo or stupor from it, & I have always been particular  
in my inquiries to ascertain if any such effects took place. In one case of the com-  
mencement of fever, it was administered with decided advantage; it continued to  
operate for six hours as an emetic, & entirely removed all the febrile symptoms.  
The root should be dug late in November, after the leaves & stalks are killed  
by the frost. It must then be cut into thin slices, dried with a very moderate heat,  
& powdered for use. An ointment may be prepared by mixing one or two ounces  
of the powdered root of *Phytolacca* with a pound of hog lard & simmering them together  
over a slow fire until the lard with success in cases of itches, where the ointment of sulphur

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movements have had no effect. It is apt to produce after the first or second application, a great heat & burning over the whole surface on which it is applied; when this is the case it should be immediately washed off. I never knew the same effect to follow the renewed application of it. I had the satisfaction of curing a boy with this ointment who had tinea capitis for twelve years, which had been treated in various parts of Europe & in this country, & had resisted all the ordinary applications. The hair was kept short, the head was washed night & morning, & the ointment was then ~~rubbed~~<sup>sublyd</sup> all over the parts affected. He never complained of any pain or smarting, though the surface was considerably ulcerated. (Hayward) It is affirmed by a physician of eminence the leaves of *Phytolacca* have been found an admirable remedy in hemorrhoids. A decoction is given internally & if it does not speedily relieve, the same infusion is injected into the rectum. This method will in general effect a perfect cure. According to the experience of Drs Jones & Kollock, of Savannah, this plant may be relied on as an effectual remedy for syphilis in its various stages, even without the aid of mercury; & they employ it with confidence both internally & externally in rheumatism & in cutaneous eruptions. One ounce of the dried root infused in a pint of wine, & given to the quantity of two spoonfuls operates kindly as an emetic. The roots are sometimes applied to the hands & feet of patients in ardent fevers. Many country people use the extract with great confidence in its efficacy in discharging indolent tumours & in healing various kinds of ulcers. It is found to operate as a mild vegetable caustic, charring & healing foul ulcers better than most other remedies of the same class. In three cases of apparent fistula lachrymalis, it is reported to have performed cures, by being applied to tumours twice a day, for two or three weeks. This root has also been employed in compound as an article of dye. (Nash)

That noted Quack, Dr. Henry of New York, in his American Herbal, says "The root which is large, bulbous & white, is an emetic, cathartic, & discutient



Berries are stimulative, sudorific & pectoral.  
 Preparation. Infuse one ounce of the coarse powdered root in a pint of Madeira wine for a week, & you will have an excellent emetic wine: dose two table spoonful which sweats mildly, & work it off with camomile tea. Several wonderful cures in chronic rheumatism have been effected by the following mixture: To one pint & a half of the expressed juice of the berries add half a pint of Brandy: dose from one to two table spoonful night & morning, diluted with half a pint of prickly ash tea. The root roasted & mashed with vinegar cures hard glandular tumours, by applying it twice a day.

The following is the method for making my famous cancer ointment which has been purchased of me by a great number of physicians, & always proved effectual: Take the fresh leaves & roots of young poke weed, bruise them well in a mortar & express the juice: to one pound of fresh butter, pour in in a frying pan till it is of a blackish colour, stir in half a pint of pulverised gun powder, & hold it over the fire until it flashes once & twice; then pour the butter thus burnt into a quart of the poke juice, mix it well, & let it stand on the hot coals in an earthen pot until it is boiled to the consistence of an ointment. This ointment if spread on & applied over the cancer every other day, will kill the roots & fetch them all out. Wash the cancer with a decoction of yellow dock root, boiled in four quarts of water down to three, & drink half a pint of it daily twice a day. After the roots are dead apply a poultice of bruised yellow dock leaves, & heal the sore with the elder salve." Henry. (If any thing cure the cancer it is the yellow dock root. See page 44. P. W. W.)

Clas Cryptogamia.

Polypodium - P. Filix Mas. Ang. Male Fern

Desc. - Capsules disposed in rows scattered dots, on various parts of the lower surface of the frond.

Use. The fern is biennial, & grows in great abundance in almost every part of Britain, where the ground is not cultivated. The root when chewed is somewhat

104 mucilaginous & sweet & afterwards astringent & bitter. The vermifuge powers of fern are well known. It appears to be particularly active in expelling the tape worm. Dr. G. Jones relates the case of a lady in New York, who after taking many worm medicines, with partial good effect, drank a decoction of fern in water for a fortnight until some gallons were taken, when a dose of castor oil brought away the remnant of the worm, measuring forty five feet.

The fern is the famous remedy of Madame Stuffer of Switzerland, for the tape worm. She acquired the knowledge of the remedy from her husband, who was a surgeon, & obtained a great price for the secret from Louis 15<sup>th</sup> of France, by whose order it was published.

The powdered plant was generally prepared by Mad. S. & may be given in doses of <sup>from</sup> sixty grains to two drachms. (Trachm)

Usage. The day before the patient was to take the fern powder, he was purged with a dose of calomel & Jalap, & after its operation he must take a very light supper. The next morning he was to take three drachms of the powdered fern root, & two hours afterward take another dose of calomel & Jalap, & drink a tea cup full of of the skunk cabbage root tea, every hour, till the tape worm is expelled, taking care to sit on a clost stool & not break the worm but pull it gently. In case the worm is not expelled the first day, the medicine is to be repeated the next. The tape worm has come away from a patient after taking a drachm of the powder without any purge.

### Clap 20. Order 16

Ricinus. R. Communis. Ang. Palma Christi. Castor oil plant.

Gen. Desc. Staminate flowers - calyx 5 parted: stamens numerous. Pistillate flowers - calyx 3 parted: styles 3. & cleft: capsule echinate, 3 celled, 3 seeded (common). Leaves palmate, peltate. Annual, exotic in

Use. This plant grows in both India, Africa, & the south of Europe. It also grows luxuriantly in the southern states of America, where it is now becoming an article of export. It is of speedy growth, & in one year arrives at its full height which seldom exceeds twenty feet. The capsule are prickly & triangular, & con-

under a thin dry gray & black matted rusk, a white silk lined. The skin 105  
extremely acid & one or two of the seeds swallowed entire operate as a drastic pur-  
gative or emetic. The kernels yield almost a fourth part of their weight of a bland  
oil, commonly called Castor oil. It is obtained from them either by expression  
by decoction with water. The former method is practiced in Europe the latter in  
Jamaica. In warm climates the produce it is common to parch the seed over  
a fire before the oil is extracted from them, but the oil thus obtained is infe-  
rior to that prepared by cold expression or simple decoction, & is apt to become  
rancid. Genuine castor oil is thick & viscid of a whitish colour, insipid or sweet

to the taste, & without smell.  
As a medicine it is a gentle & useful Purgative; it in general produces its  
effects without griping & may be given with safety where acid Purgatives are  
proper, as in colic, calculus, gonorrhoea &c. Some likewise use it as a Purgative  
in women. Half an ounce or an ounce commonly answers with an adult,  
a drachm or two with an infant. With many the aversion to oil is so  
great, that this Purgative cannot be taken without great reluctance, &  
consequently different modes of taking it have been proposed. Some prefer  
taking it swimming on a glass of water, of milk or Peppermint water, or in the  
form of emulsion, with mucilage, or with the addition of a little rum. (See  
See my M. M. vol. 1. p. 110.)

Clap 13. Order 12-

Rosa. R. Gallica. Aug. Red rose-

Gen. Desc. Calyx won. firm & cleft, fleshy, contracted toward the top. petals 5.  
stamens numerous, bristles fixed to the sides of the calyx within.

Use. The Gallica, French or common red rose, has large, spreading, half  
double, deep red flowers. It has not the fragrance of the damask rose, but  
the beautiful colour of its petals, & their pleasant astringency has rendered  
it official. It must however be remarked, that this odour is increased  
by drying, while that of the damask & moss roses is almost des-  
troyed. Thecher

Ruta. R. graveolens. Aug. Clas 10. Order 9 Ret. Ord. Rutaceae  
 Gen. Desc. Calyx 5 parted. Petals concave: receptacle surrounded by 10 nectariferous  
 dots: capsule lobed. (Petals sometimes 4 & Stamens 8) (graveolens) leaves decomposed  
 or more, petals entire.

Use. This is a small shrubby plant, met with in gardens, where it flowers in June  
 & holds its green leaves through the winter. It has a strong ungrateful smell, &  
 a bitterish penetrating taste; the leaves when in full vigour are extremely acid  
 inasmuch as to inflame & blister the skin if much handled. Some writers on  
 Materia Medica have entertained a very high opinion of the medicinal vir-  
 tues of this plant, & it is still retained in the Massachusetts & other Pharmaco-  
 pias. It has been considered as powerfully stimulating, attenuating & de-  
 terging, & hence in cold phlegmatic habits it quickens the circulation, dis-  
 solves tenacious juices, opens obstruction of the excretory glands, & promotes  
 the fluid secretions. Boerhaave is extravagant in his praises of the essence  
 of oil & distilled water of rue for their efficacy in promoting sweat &  
 respiration, & for the cure of the hysterical passion, & of epilepsy, & for  
 expelling poisons. In modern practice rue is not regarded as possessing  
 much power as a remedy. This

Clas 10. Order 2.

Anthem. A. Nobilis. Aug. Chamomile.

Gen. Desc. Calyx hemispherical, nearly equal: corolla, or a membranous  
 margin: florets of the ray more than 5: receptacle chaffy, the chaffs flat  
 with a rigid acuminate apex (nobilis) receptacle chaffy, leaflets 3 parted lin-  
 ear sabulata. fern. exotic.

Use. Chamomile is a perennial plant indigenous to the south of Europe  
 but cultivated in most gardens for the purposes of medicine. The flowers have  
 a strong, not ungrateful aromatic smell, & a very bitter nauseous taste.  
 They are so very generally employed in medicine as to render their very exten-  
 sive cultivation in the United States, well worthy of attention. — Their active  
 constituents are bitter extractive, & essential oil. The latter is to be ascribed  
 their antispasmodic, carminative, cooling & diaphoretic effects. The form

to be ascribed their influence in promoting digestion. As chamomile is  
to the peristaltic motion it is useful in dysentery, but is not antispas-  
modic in all cases of diarrhoea. From its stimulating & somewhat unpleas-  
ant essential oil, Chamomile is also capable of exciting vomiting, especially  
when given in warm infusion. & in this way it is often given to assist  
the action of other emetics. Externally chamomile flowers are applied as a dis-  
solvant, in the form of chylus, or embrocation, in colic, dysentery, & stran-  
gulated haemorrhoids. Chamomile flowers are exhibited. 1. In substance,  
the form of powder, or rather of electary, in doses of from half a  
drachm to two drachms, either alone or combined with Peruvian bark as  
in the cure of intermittent fevers. 2. In infusion in form of tea. This may  
be drunk warm, for promoting the action of emetics, or cold as a  
stomachic. 3. In decoction or extract. These forms contain only the  
extractive, & therefore may be considered as simple bitters. 4. The es-  
sential oil may be obtained by distillation. This possesses the antispas-  
modic power in a higher degree than the simple flowers, but on the  
contrary does not possess the virtues depending on the presence of the  
extractive. It is a most agreeable addition to many pills. Cocce

### Clas. 10. Order 1.

Capsic. C. Marylandica. Ang. American Senna.

Gen. Desc. Calyx 5 leaved: corol 5 petalled: anthers 8 lower ones beaked: legume membran-  
ous. (Maryland.) pinnate leaflets 8 paired. perian. yellow.

This plant which is abundant in America, is of the same genus with the senna  
of the shops, & it possesses nearly the same virtues as the eastern species. It is now a  
native in different parts of the United States, & from the high price of foreign senna  
it certainly deserves to be attended to. Cocce See my Nat. Med. Vol. 1. page 61

Dianthus. D. Caryophyllus. Chap 10. Order 2. Aug. Pink.

Gen. Desc. Calyx inferior cylindrical, 5 shaped, with 4 to 8 scales at the base: petals 5 with claws: capsule cylindrical, 1 celled. Dehiscent at top (Caryophyllus) petals crenate lobed. scales of calyx ovate acute. Fern. fl. red. exotic

Use This species of pink is a native of Italy, but is cultivated in our gardens. By cultivation its varieties have increased to a very great number & they form one of the greatest ornaments of our gardens. Most of these are termed carnations, but the variety which is official surpasses all the other in the richness of its smell, & is also distinguished by its colour, being of a uniform deep crimson. This only use in pharmacy is to give a pleasant flavour & beautiful colour to an official syrup (Cosa).

Chap 18. Order 2. Nat. ord. Compositae

Erigeron. E. Philadelphicum. Aug. Philadelphia. & Blue Fleabane.

Gen. Desc. Calyx imbricate: erect pilose: receptacle naked. Florets of the rays linear, very narrow numerous (Philadelphia) stem leaves half clasping lanceolate subovate ray florets as long as those of the disc, stem many flowered. Fern. July. Blue

Use - This is one of the most common plants in many parts of the United States. It has been used in decoction or infusion in Philadelphia, for gouty & gravelly complaints, & in some instances with much benefit. It operates powerfully as a diuretic & melanic. It is known by the name of Skewick in Pennsylvania, which Dr. Barton suspects to be a corruption of the word Scabious. This plant is employed by the Cochinchinese, according to Father Linnæus; who speaks of it as an active emmenagogue - Ibid See page 152

Chap 2. Order 1.

Gratiola. G. Officinalis. Aug. Hedge Nymph.

Gen. Desc. Calyx 7 leaved, the two outer ones spreading: corol 4-lobed, 2 lipped, reverse Stamens 4. 2 of them barren, stigma 2 lipped, capsule 2 celled. (Officialis) leaves slightly toothed (This is the source of Madder dye) annual. fl. yellow - exot.

Use - This is a native of marshy situations in the north of Europe & of the U.S. It is gathered for use when in flower. It has no smell but a very bitter somewhat

incon taste. It is a drastic purgative, & emetic & a very powerful anthelm-103  
tic, but it requires caution. In substance it may be given to the extent  
half a dram, & in infusion to three drachms. Ind  
#

Clap 20. Order 16.

Equidambar. L. Asplenifolium. Ang. Sweet Fern.

Gen. Desc. Staminate flowers. ament conic, surrounded with a four leaved involucre  
filaments numerous. Pistillate flowers. ament globose, surrounded with a 4 leaved  
involucre: calyx 4 leaved, peltate form, 2 flowered: style 2: capsule 2, surrounded at  
the base by the calyx, called many seeded.  
Use. This is useful in diarrhoea. The Indians are said to chew the root to stop  
hemorrhages of recent wounds. Ind.  
#

Clap 10. Order 1. Nit. Ord. Ericacia

Podalyria. P. Tinctoria. Sphora Tinctora. Ang. Wild Indigo. Indigo Weed.

Gen. Desc. Calyx 5 cleft, somewhat 2. lipped: corol papilionaceous, wings of the  
length of the banner: legume inflated, smooth, many seeded (tinctoria) stipules obsolete  
ovate wedge form. green, yellow.

Use. This vegetable is indigenous, & supposed to be exclusively American. In Dr.  
Miller's catalogue it is called indigo fera. & it is sometimes known by the name of  
indigo weed. It is perennial growing in great abun-  
dance in almost every barren pasture & in woods. The stalk rises to two feet or  
more sending off numerous branches. The leaves are small, ternate, inversely heart  
shaped & reddish. In July & August all its branches display, butterfly shaped,  
golden coloured blossoms, which render the plant very conspicuous. The seed vesicle  
inflated containing numerous seed. The root is ligneous, rough & irregular in shape  
& of a dark brown colour externally, & sending off many long slender branches. Its  
taste is unpleasant, subacid & nauseous, very similar to that of Spicacuan. The  
particular medical properties of indigo weed are yet to be ascertained, that it possesses great  
activity is unquestionably true; those who in the spring season have made the young shoots  
substitute for asparagus experienced its drastic evacuating power. In the hands of some  
physicians it is found to operate in a large dose with much severity as an emetic & cac

110 thartic. But a weak decoction of the bark of the root has, it is said, been made known by an empiric experienced in its use, as a remedy in scarlatina anginosa. & its employment has been extended in a few instances to typhus or putrid fever with such good effects as to encourage farther trials. An experienced physician considers it as an excellent antiseptic & febrifuge, preferring it in some fevers to Peruvian bark. As an external application, its antiseptic qualities ought to be more extensively known. In the form of fomentation or cataplasm, it has proved eminently beneficial when applied to phagedenic & gangrenous ulcers, especially if the decoction be administered internally at the same time.

A liniment prepared by simmering the cortical part of the root in cream has been found an efficacious application to sore nipples & ulcerated breasts. A violet or pale blue colour has been prepared from the leaves & small branches of this plant, & used as a substitute for indigo. The leaves turn black when dried. (Machet) See my M. Bot. vol. 1. page 109.

### Clas. 14. Order 2.

Orobanche. O. Virginiana. Any Cancer root, Buck drop, ~~Bacon~~ ~~oyster~~  
Gen. Desc. Calyx of 2 lobed lateral leaflets: corolla ringent: capsule 2 celled  
many seeded glands under the bark of the stem. (Virginiana) stem branched fl. waxy  
Use! The following is a letter from Dr. George Bennell, of Germantown Penn.  
to Dr. Barton: In the year 1798 a friend of mine who had found the benefit  
of this root (in Kentucky) in the cure of an old & painful ulcer of the leg,  
gave me a small quantity of the powder. I applied to a confirmed cancer  
situated in the face, which it completely cured. Having found in my  
neighbourhood, the same plant, which attaches to itself the remarkable  
peculiarity of growing under ~~any~~ tree of the forest but the water beech, I  
have upon various occasions used the powdered root of it in foul & can-  
crous ulcers, frequently with success, & generally to the great relief of the  
patient. It is difficult to say in what manner this vegetable ac-  
cidentally, indeed by certain qualities it possesses of neutralizing the cancer



For in no instance have I found it to excite the smallest degree  
The powder should be mixed with a solution of gum arabic, thickening  
the consistence of ointment, & laid on thin leather, which may be left upon the  
as long as any adhesive quality remains. This in proportion to the size  
will sometimes last two or three days.

Ureter says the Buck drops are a powerful astringent, & cancers have been  
effectually cured by the application of the fresh Bomied root frequently ap-  
plied. It is very beneficial in the cure of St. Anthony's fire, & the can-  
cers in the throat. — Preparation. In four quarts of water put  
eight ounces of buck drops: boil it down to two quarts, strain the deco-  
tion, & sweeten it with loaf sugar. After proper evacuation, patients  
subject to the sore, or erysipelas, may take a tea spoon full of this  
two times a day, & keep linen oap wet with the decoction before it is  
sweetened, over the inflamed parts, until perfectly well.

N.B. To every quart of the decoction you may dissolve half a tea  
spoonful of white vitriol, & use it occasionally. Omit the tea  
when you expect your courses, & when they are down. Children  
subject to falling in warm weather may be cured by wetting the  
parts frequently ~~in warm~~ with a linen rag dipped in the decoction  
made weaker by adding a table spoon full of rose water to a pint  
of the above lotion. — This is supposed to have formed a part of Dr. Martin's  
Cancer powder. Cox. 5.

Clap 6. Order 3.

Tribium - I. Rhomboidium. Ang. Beth Root.  
Gen. Desc. Calyx 3 leaved, inferior, spreading: corol 3 petalled: ovary 3 celled, many  
seeded (Rhomboidium) flowers peduncled, erect or erectish. Var. erectum, album &  
var. flavum. fl. p. or white.  
Use. This root is powerfully astringent. I have found this root of great  
efficacy in violent uterine hemorrhagia, hematuria, or bloody urine in  
existing gangrene, & in curing carbuncles. I have been instrumental over

117 long since, in saving the life of a sailor who was taken with a violent pain  
in his penis, & made bloody water continually. After proper evacuation, my  
prescription was to take a teaspoonful of the powder of this root, four times  
a day. Two or three days afterwards, I had the happiness of finding him entirely  
well. — Preparation — In all immoderate flow of the catamenia, spit-  
ting, or discharging of blood, the patient may take one teaspoonful three times  
a day, in a tea cup full of the tea made of yarrow or St. John's wort, after  
bleeding & using cooling laxatives. This is always effectual. —

For the benefit of gentlemen of the college, & the medical society, as well  
as private individuals, I will insert the following new discovery, which ob-  
viates the gangrene, & quickly cure carbuncles.

A case. I was called to visit a French lady living in Roosevelt street  
New York, who had a carbuncle on her arm as large as a crown piece.  
It was of a fiery red colour, & sharp watery ichor, or watery running. I  
made a poultice of equal parts of both Blood root, powdered fine & mix-  
ed with honey, & bound it over the carbuncle, with directions for renewing  
it every two hours, & taking a purge. When I called the next day, I found  
to my great satisfaction, that the carbuncle was killed, & only a brown  
mark left, & has never returned.

This poultice is also a certain cure for old putrid ulcers, obviates  
the gangrene or mortification, & will prevent the cutting off many  
limbs in our hospitals, & on board ships of war. Henry.

Clap 13. Order 1.

Chelidonium. C. Majus. Ang. Celandine.

Gen. Desc. Calyx 2 leaved: corolla 4 petalled: siliqua like capsule, called linear: seeds  
covered many (majus) leaves pinnate lobed, umbels axillary. Juven. fl. yellow.

Use. This plant rises two feet in height with many tender round green stalks,  
with large joints than is common in other plants; very brittle & easy to break.  
Leaves large, serrated, & very tender: the flowers consisting of four leaves are yellow.

which come down from blackish red berries, the root is found at the  
head shooting forth many long roots with small fibres, reddish externally &  
low within, & full of yellow sap. This plant grows wild along the sides of mead-  
& by running brooks. It is acrid, stimulant, astringent, diuretic & indolent.  
juice rubbed on warts extirpates them, cures ring worms & cures old ulcers. It has  
found useful in dropsy, cachexy, & green sickness. A poultice made of this plant  
in milk has cured the herpes miliaris. Infusions of the plant in vinegar  
promote perspiration. In order to take a film off the eye, take half an ounce  
of the expressed juice of the leaves, & one pill of the fresh juice of the leaves of ground  
ivy, called alchor, dissolve a teaspoonful of salt in it, & keep it in sand in a  
glass jar. The film must be wet with a small hair brush dipped in this juice  
two times a day, & afterwards wash the eye with a little milk & water. To cure  
above complaint the patient may take twenty or thirty drops every morning  
evening of the expressed juice of this plant, in a pill of new milk twice a day  
increasing the dose occasionally. Twenty drops of the juice mixed in an ounce of  
rose water makes an excellent eye water which will cure the most inveterate  
eye eyes, by wetting them morning & evening. A poultice made of the roasted  
roots mashed in vinegar, & applied to scrophulous tumours on the neck, quickly  
deposes them. An ointment made of the roots boiled in poppy seed cures the  
same, by anointing them with it every night before the fire, & taking daily  
teaspoonful of cream of Tartar & flower of sulphur on honey. Boerhaave  
Boerhaave recommends the chelidonium major as a substitute for mercury in the venereal  
disease. He says in summer I generally give the juice of the radix & root (which is expressed) with  
milk & diluted with water, first in the dose of a teaspoon, gradually increasing it to a Table spoon  
which dose I order to be continued till the cure is completed. In autumn & spring I employ the  
juice expressed, radix chelidonium, & in winter the extract which is made of the whole plant. The  
most persons dislike taking expressed juices I generally give the following pills. ℞. Succ. recent. ex  
rad. & rad. chelid. maj. aa ʒss. inspi. lini caloris. grad. ad consistent. mellis. dein adde pulv. rad.  
rad. g. v. satis ad consistentiam massa pillularis; ex qua formant. pil. pond. gr 2. confus.  
the. locustardii serv. usui. Of these pills I order two to be taken in the morning & evening, da  
creasing the dose by one pill till I have raised the dose to ten pills which I continue till  
cure is completed. I have often employed the herb & root each separately, & the latter appears to be  
most efficacious. If it be intended to quicken the cure I prescribe the pills to be taken every three hours



*Siphonia cucurcu*



*Comaniphora madagascariensis*

Class Monoclea. Order Monodelphia.

*Siphonia*. L. Cuchuen. Arac. Elastic Gum resin tree.

The remarkable substance known by the name of elastic resin or caoutchouc is imported in great quantities from South America in various forms; generally in the shape of bottles, & is employed in Europe for several medical & chirographical purposes for making catheters, cups, syringes &c. & also for rubbing out black pencil marks. It was long known to be a vegetable production, & the inspissated juice of a tree, but it was a long time before it was botanically described. Linnaeus thought the elastic gum to be prepared from a tree to which he gave the name of *cecropia peltata*, & he firmly believed that this was the only tree from which the substance was obtained. It has however since been ascertained by the modern botanists, that there are several <sup>trees</sup> which yield elastic resin, but especially, that the caoutchouc which is imported into Europe, is now taken from *cecropia peltata*, but from a far different plant. It appears moreover from the researches of modern chemists, that this substance is likewise contained in several European plants, namely in the berries of the *vicum album*, though it is never to be met with, in any European plant in so pure a state as it is observed in several trees in hot climates. The younger Linnaeus takes the *Jatropha elastica* to be the true elastic resin tree which he learned from Aublet's work, who found this tree only with fruit. & Linnaeus concluded from the form of the latter, that the elastic gum tree which Aublet calls *hevea guyanensis*, belonged to the genus *Jatropha*.

Prof. Richard however discovered the same tree during his travels in Guyana, in flowers, & at the same time in fruit, & from his accurate examination of both it appeared to make a new genus which is now called *Siphonia*. Mr. Richard found but one species which bears the systematic name of *Siphonia cucumer*, of which a branch is represented in fig. 1. on a smaller scale from a branch in my collection. *Siphonia cucumer* (*siphonia elastica*, Woodville medical botany, tom. 4.) belongs to the

Linnean class Monoclea, Monadelphica. It is a large tree growing to the height of sixty feet & more; the bark of the branches is smooth & grey brown. Leaves on long foot stalks, & very close together. Leaflets half a foot long, elliptical, pointed, entire, coriaceous, on the upper side smooth, & on the under side whitish, with very short, fine, down hairs. From the axilla of the leaves arises a panicle of small white flowers

116 longer than the leaves. Male flowers have a monopetalous, campanulate corolla  
tube with five ovate anthers. Female flowers cleft in teeth which are recurved &  
deciduous; germen roundish & a little concave, style none, stigmata three, emar-  
gined, depressed, capsule woody, three parted, three celled, in each cell one seed of the  
size of a sweet almond, elliptical, spotted, & covered with a thin & brittle pericarpium.  
The seed are said to be eagerly sought for by the Americans, & to be a very palat-  
table food. The manner of obtaining elastic resin from this tree is by shaking in-  
cisions in the trunk of the tree, from which a milky juice issues which is received into  
earthen vessels. On exposure to the air this juice gradually inspissates into the known  
elastic resin. In America it is employed for different purposes, & they make of it  
bottles, boots, Glambaux, &c. ±

### Class Diocia

Commiphora Madagascariensis - Besides the above tree, which is now pretty well  
ascertained another has been discovered in the Island of Madagascar, yielding a substance  
which perfectly ~~resembles~~ resembles that of the Siphonia, & said to be obtained by sim-  
ilar proceedings; & it is to be expected that several other lactescent trees may produce  
such a substance. This tree is called by Mr. Jacquin, Commiphora Madagascariensis.  
On table 2. (a) a branch with flowers is represented in natural magnitude; & in  
(b) a branch severed by half. It belongs to the class of Diocia, & the male flower  
we are only as yet known. Mr. Jacquin gives of it the following description. The  
branches are round covered with a yellowish bark which adheres loosely, leaves oblong  
blunt, finely serrated, having at their base two small foliaceous appendages. Flowers  
yellowish, small, appearing before the eruption of the leaves; they are deciduous  
Calyx bell shaped, cleft into four short teeth. Corolla consisting of four lanceolate  
petals which surround eight tubuliform filaments, four of which are shorter  
than the rest. Anthers erect & oblong. Peridium & fruit unknown. Middleton  
Med & Phys Jour. vol. 11. P. 385. & 398.

*Abium*. *G. Aschellum*. *G. Spina*. *Stag.* Pointed Chives - Goose Grass

*in*. *Disc.* Calyx 4 toothed, cool flat. Fruit dry, red & roundish. (leaves stellate) as per the  
color in rice. stem decumbent. green, white.

*in*. This plant grows from four to six feet in height, climbing round the bushes near it.  
The leaves are eight in a whorl. lanceolate, & the upper side is white with sharp prickles.

The squares, the angles being guarded with sharp prickles bent down. Flowers small, in-  
spicuous, & divided into four segments, then change into a fruit rather large, composed

of two berries, slightly adheing together, & covered with hooked prickles containing two seed.  
It grows in hedges on low ground, beside meadows, near books, & is known to people

the country, by the name of poor robin's plantain, from its efficacy in curing the gravel.  
I have found it an excellent & speedy medicine in all suppressions of the urine &

swelley complaints, & it is a powerful diuretic. It has also been found beneficial  
the cure of senury, hemorrhagia of the nose, & spitting of blood. A tea made by

an infusion of an handful of the leaves has cured the Epilepsy & the gout.  
In order to remove tumours in the breast, mix the expressed juice of this plant

with oatmeal to the consistence of a poultice, & apply it cold over the tumour three times  
a day. Keeping the bowels open in the mean time by castor oil, & taking a table-

spoonful of the juice every morning. By this treatment very violent tumours have  
been dispersed in a few days. In suppression of urine & the gravel let the patient

follow this prescription: after taking a dose of castor oil or oil of cloves, put two  
handful of the dry leaves of the plant into three quarts of rain water, & boil it down

to two, strain the decoction & sweeten it with honey: let the patient take a tea-  
spoonfull warm every hour until relieved. A particular case. I was called to see an el-

derly lady labouring under violent pain & suppression of urine. After necessary evacuations  
I took a large handful of the leaves of the goose grass, which was gathered fresh from the

meadow & poured three pints of boiling water on them, & ordered a tea cup full, sweetened with  
honey every half hour until I returned from visiting a patient near by. In about three hours when I  
returned, her husband came to meet me, & with the greatest satisfaction declared that the life of his wife  
had been saved by drinking the tea. Henry

Tussilago F. Farfara. Ang. Colts foot.

Gen. Desc. Calyx ~~in ph.~~ scales equal, & equalling the disk, submembranaceous: receptacle naked: frutillate florets ligulate or without teeth: sepal simple sessile (sometimes polygamous) (Farfara) scape, flowered scaly at length come out radical, heart angular leaves. (round S. W. W.) p. 4.  
Use This plant rises about eight inches in height. The scape is covered with small pointed purple leaves like scales: leaves very large, serrated, irregular toothed, of a bright green colour on the upper, & downy & white on the under side, standing upon large, long radical footstalks; large yellow flowers. Those in the rays of the sun are very white.

It grows on high moist clay ground, the roots are pleasant to the smell & aromatic. The yellow flowers generally appear before the leaves in spring. (filium antiphetum) that is the son before the father; because the flowers appear before the leaves.

The juice or decoction of the dried leaves has been found efficacious in the nephritis. The leaves powdered fine & a small pinch taken at bed time, removes giddiness & all obstructions of the head, nose, eyes, &c. It is a good medicine in coughs, asthmatic complaints, pain in the breast & promotes expectorations.

Put one pound of the dried roots & leaves of colts foot in six quarts of rain water, boil it away to three quarts, strain the decoction & use it as follows: For King's evil take half a pint three times a day, & roast pond lily root in wet brown paper under the hot ashes: mash the root & apply it warm every night over the lump or tumour on the neck, which will either disperse, or bring them to a suppuration in a week.

Continue the use of the decoction daily until cured. For cure of the hooping cough, the child may take half a tea cup of tea sweetened with honey four times a day, made by putting one ounce of the dry roots & leaves into a tea pot, & pour a quart of boiling water on them.

For consumptive coughs the patient may take a pill of the above decoction four times a day. Ibid, — // See my M. M. vol. 1. p. 122.

Clap 13. Order 1.

Cistus C. Canadensis. Ang. Canadian Cistus. Rock rose.

Gen. Desc. Calyx five leaved 2 of them smaller, cord & petaloid: capsule 3 valved: open at the top. (Canadensis) stamens boortrate on the petals, leaves alternate, lanceolate green, yellow. Late in autumn this plant sends off curved ice crystals from near the root of a very singular structure! We should like to know what that structure is. Rafinesque



This plant rises two feet in height: leaves numerous, ovate, very small  
a whitish colour like host, & grow on small purple stalks. Flowers of a pale col-  
& inconspicuous, which terminate in a small pod containing very small seed.  
is now discovered plant grows in the wood on Long Island, & plentifully in New Jer-  
& is known by the name of hostwort, from its colour.  
It has been found effectual in the cure of oedema, or King's evil.  
Take one handful of the dry leaves, a quart of rum, & a table spoonful of black  
pepper, put this in an earthen pipkin, & let it stand on the hot embers for two  
days to simmer: strain it & put in a handful or two more of the dry leaves into  
liquor, & let it simmer for half an hour. Then thicken it by stirring in two ounce  
of the powdered leaves, & apply a poultice over the bump twice a day. Let the  
patient drink the following infusion three times a day: put four ounces of the dry  
to a tea-pot filled with boiling water, & wash the roots three times a day  
with a rag dipped in the tea. Numbers have been cured in this city (New York)  
with the above prescription. Ibid.

Clap 17. Order 8.

Samaria. F. Officinalis. Syn. Fumatory.

Gen. Desc. Calyx 2 leaved, caducous: corolla irregular, spread at the base: filament  
each with 3 anthers: capsule deep like, 2 celled, & seeded, not opening by valves, seed af-  
fixed to the side of the cell (officinalis) leaves more than decomposed with leaflets  
edge lanceolate pinnate. stem with spreading branches. annual. fl. red.

Spec. This plant rises a foot in height: leaves pale green, compound, doubly pinnate  
the smaller pinnas three lobed. flowers of a reddish purple & grow in spikes which  
rise from the axilla of the leaves: the corolla has the appearance & is in reality ori-  
ent. This plant grows common in corn fields, & along the fences. Flowers in June & July

It is a tonic bitter, & antiscorbutic, & has been found efficacious in the cure of ulcers  
other cutaneous eruptions. The virtues are chiefly contained in the dry plant.

Pour two quarts of boiling water on two ounces of the dry leaves of fumatory: in  
all foulness & scabby eruptions let the patient take a pill three or four times  
day & wash the parts with a tea twice a day. As a tonic or stomachic used

12<sup>o</sup> icine. infuse two ounces of the dry flowers & tops of the plant in three pints of Madeira wine, rum, or brandy. a wine glass full of the wine infusion may be taken twice a day on an empty stomach, & a table spoonful of the brandy with a spoonful of spring water, which will strengthen the stomach & create a good appetite.

Clas 10. Order 2. Nat. Ord. Asterales

Solidago. S. Ciliari. S. Virga Aurea. Hay. Goldenrod.

Gen. ~~Car.~~ Calyx scales imbricate, closed, erect simple: receptacle naked, furrowed with dots or punctures. ray florets about five.

Use - This plant is perennial, & rises about two feet in height: small brown round stalks, divided at the top into small branches, with many long green leaves: flowers small & yellow on every one of the branches, all of which are turned one way, & when ripe they become as down & are carried away by the wind.

It grows in wood, meadows, & along the fences in every part of the United States & produces its flowers in July.

The flowers are aperient, corroborant, & the leaves are gently astringent. The flowers have been found beneficial in removing obstructions of the urinary organ in gravelly complaints, ulcerations of the bladder, are good in cachexis & in the first stage of dropsy. The leaves are good in debility & laxity of the viscera or bowels, & all disorders proceeding from that cause.

Pour two quarts of boiling rain water on two handfuls of the flowers; put them in an earthen vessel covered, & set it on hot ashes for an hour: strain the infusion through a clean linen cloth & sweeten the liquor with loaf sugar. Let the patient labouring under obstructions of urine, & gravelly complaints take a tea cup full of this infusion three or four times a day till he finds relief - In all complaints of the bowels as well as fever, observe the following prescription: Pour a quart of boiling water on a handful of the dry leaves & flowers of the golden rod & let the vessel stand over the fire covered for an hour & close a tea cup full taken every two hours through the day, sweetened with sugar. In fever after proper evacuations, the patient may take a full cup per hour, sweetened with lump sugar, together with a tea spoonful of lemon juice till he recovers.

Clas Cryptogamia. Order 1.

Aspidium. P. Obsecrum. Ang. Ground pine -

Gen. Desc. Capsules mostly kidney form or roundish, 2 or 2 valued opening elastical. They are placed under separate scales in a spike or sometimes in the axils of the leaves. (very leafy thin stems being generally covered with 2, 3, or 4 rows of narrow single entire leaves) (obscurely leaves scattered 6 rowed, shoot erect, branches radiately forked, spikes nearly sessile cylindrical, solitary, terminal.)  
Loc. This small & useful plant grows plentifully in low woodland, in rocky places, on the sides of mountains, & near running brooks.

The leaves are aperient, corroborant, nervine, attenuant, diuretic, & menagogue. They are beneficial in gout, rheumatism, suppression of urine, uterine obstructions.

Take half a pound of the dried leaves & flowers of the ground pine pour two quarts of Madeira wine upon them, shake the vessel often & let it remain for one week, when it will be fit for use. A wine glass of this infusion may be taken three times a day on an empty stomach, in any of the above complaints. It has also removed rheumatic pains, after necessary evacuations. Ibid.

Clas 2. Order 2.

Colinsonia. C. Canadensis. Ang. Horse weed. Horse balm. Stone crop -

Gen. Desc. Calyx tubular 2 lipped: corol unequal, undulose many cleft. capillary. In perfect seed (canadensis) leaves heart ovate, green yellow. Latex Root knotted flat & as hard as a stone. Hence it derives the name of stone weed or root. It grows on the sides of hills & on the borders of high meadows, both in New Jersey & West Virginia (& in Dorfield N.Y.)

Use. This root is carminative, diuretic, corroborant, aromatic, & has cured the dropsy. Dig up the root in the spring, & cut it into thin slices, dry it sufficiently in a bath over a slow fire, stir it constantly, & when dry pulverize it, & put it into bottles for use. - Boil two ounces of the powder in two quarts of rain water, strain decoction & in dropical swellings the patient after taking a purge of Stomach

122 jucamanha may take a teacup full of the decoction six times a day in-  
creasing the dose according as they may find benefit, & likewise they may take a  
spoonful of the powder four or five times a day until they find their strength restored  
In all debilities & flatulent complaints of the bowels, a teaspoonful may be taken  
in a spoonful of brandy & water, three times a day on an empty stomach.  
In the cure of fevers after necessary evacuations, the patient may take for his  
constant drink, when the fever is on, half a pint of the infusion of the dry  
tops of the weed, made by taking a handful of the dry tops of the <sup>weed</sup> & pour  
a quart of boiling water on them. Ibid.

Clap 5. Order 2.

Thocynum. A. Cannabinum Ang. Indian Hemp.

Gen. Desc. Corol. bell form: stamens alternating with 5 filamentous pointed anthers  
stigma broad, almost sessile: follicles long, linear. (cannabinum) panicled, corol erect  
green, yellow. Use. This useful plant rises three feet in height, the stalk  
is bare for a foot, then spring many branches: leaves numerous & ovate, rang-  
ing on footstalks: flowers whitish, similar to buckwheat, which terminate in  
seed pods resembling a cucumber. The stalks & roots are lactent.

It grows in meadows & in low wood on the border of meadows on Long Island, & in  
New Jersey, as well as in other parts of the United States, & is sometimes vulgarly cal-  
led wild buckwheat.

Use. It is emetic, cathartic, sudorific, diuretic, & is an excellent pectoral. I have  
found it beneficial in curing rheumatism, dropsy & asthmatic coughs.

Dip the root in Alcohol, & hammer it on a stone until you can take off the bark,  
which you must dry & pulverize: dose from thirty to thirty five grains, which will  
generally work the patient both up & down, which may be used as an emetic in  
intermittent fevers. As a sudorific six grains may be taken three a day in  
a spoonful of cold water. As a pectoral take one ounce of the fine powder, & let  
an ounce of the powder of stunk cabbage bath, mix it with tar, & make it in  
a snap for pills, of the size of a large pea, which I have found of great use

in asthma: dose, take two pills every night & morning for a week, after <sup>723</sup>  
which take three times a day & drink a tea cup of the infusion of stunk cabbage  
t. three times a day. I have found it effectual in curing rheumatism & in-  
termediate flow of the menses, by taking every night half a tea spoonful of the  
rinds of Indian hemp, in a tea cup of pinkish ash tea: & as a pectoral  
the grains may be taken night & morning. A spoonful of the infusion ta-  
ken occasionally is good in the whooping cough, & prevents straining & the  
sinking of blood which I have observed among children labouring under that  
complaint, & should recommend changing from the city to the country, children  
afflicted with this dangerous complaint. Ibid.

### Clas Cryptogamia. Order 1.

Adiantum. A. Pedatum. Ang. Maidenhair.

Gen. Desc. Capsules disposed in oblong spots arranged along the margin of the frond.  
The involucre is formed by turning back the margin of the frond over the capsules, & it opens  
inward (The lines of oblong spots are generally along that margin which may be consid-  
ered the end of the leaf (pedatum) frond pedate, branches pinnate, leaflets halved.  
This plant rises to seven or eight inches in height: leaves very fine & soft, on short  
footstalks, deeply cut on the edges, thickest on the upper part, & spotted finely  
underneath: stalks of a dark purple colour. It grows in swamps & low grounds,  
& on the sides of stony mountains.

Use. Maidenhair is expectorant, mucilaginous, & sub-astringent. It has been  
found beneficial in tickling coughs, hoarseness from acrid defluents, in obstructions  
of the viscera, obstinate coughs, pleurisy, asthma, jaundice, promotes the menses  
& fluid secretions, & strengthens the tone of the fibres.

Pour three quarts of boiling water on a pound of the dry herb, & two ounces of  
liquorice root ground, a tea cup of this infusion may be taken every hour in all  
tickling coughs. As a pectoral boil two pounds of the dry herb & four ounces of  
licid liquorice root, in eight quarts of rain water, & the consumption of one  
allow: strain the decoction & put three quarts of molasses, or six pounds of loaf  
sugar to the strained liquor, then boil it away to the consistence of honey: a table

124 Spoonful or two may be taken every hour, & is an excellent remedy in coughs & asthma. Boil three pounds of the herbs & root of maiden hair, in two gallons of rain water down to four quarts; strain it, & take a tea cup full or half a pint, four times a day in order to promote the menses, & cure the jaundice. I cured a man of the jaundice in West-Florida, by this decoction some years ago. Ibid.

Clap 2. Order 2-

Monarda. M. Altophilla. Ang. Rose Balm. Mountain Mint.

Gen. Desc. Calyx cylindric, striat. 5-toothed: corol oringent, upper lip linear, in-  
volving the filaments. (allophylla) leaves acute serrati. perenn. herb.

This beautiful plant rises two feet in height; leaves heart shaped with a sharp point serrati, in pairs opposite each other on tender reddish stalks. Flowers of a purplish red, which appear in July.

It is indigenous to the United States, & grows plentifully on the borders & banks of low meadows in New Jersey. Long Island &c.

Use. This plant is an excellent febrifuge, antiseptic, diuretic & sudorific. & is beneficial in all inflammatory fevers, pleurisy, piles, & ardour of urine.

On one handful of the dry tops & flowers pour a quart of boiling rain water, cover the vessel & set it on hot ashes for an hour. After all necessary evacuations in fevers, pleurisy &c. the patient may take a tea cup full of this tea every hour with

a little lime juice in it. & sweetened with lump sugar. & in order to raise the perspiration, the patient may bathe his feet in warm water for fifteen minutes. & dry the feet with a cloth. Let him drink a tea cup full warm in bed every half hour, with

ten or twelve drops of spirits hartshorn in each tea cup full of tea, until it has caused a plentiful diaphoresis. He must avoid the cold after this for fear of a relapse.

The rose balm is more aromatic, & more effectual in fevers, than the garden balm, or melissa officinalis, of the shops. Ibid.

Clap 7. Order 1

Rumex. M. Acetosella Ang. Sheep Sorrel.

Gen. Desc. Calyx 3 leaved: petals 5. converging; stigma many cleft. seeds naked  
three sided (acetosella) leaves hastate, perennial.

is one or two feet in height; leaves are radical, & arrow shaped, of a bright  
colour, & stand upon long foot-stalks. Flowers produced upon terminal spikes,  
of a reddish colour. The seed of one single, & of a triangular shape  
grows in old pastures, & in corn fields &c. thro' out the United States.  
An infusion of the leaves are refrigerant useful in all inflammatory habits  
well as in the Scoury.

With the leaves of Sheep sorrel I cured a large soft wen, which a man had on  
scrotum for twenty years which hung down as big as the eye of a goose.  
Being called by one William Comfort, in Orange county to examine his case  
I walked with him in the field, & found it to be a soft wen without arteris &c.  
I advised him to pull up a few bunches of the sheep sorrel, growing in his corn field, & to  
wrap them in wet brown paper, & roast them under the ashes, when done to mash  
them into the consistence of a poultice, & to sift a spoonful or two of ashes into the poultice  
& apply it over the wen warm every two hours. In a few days he called upon me  
saying by applying my finger, that there was pus or matter formed, I opened it  
with a lance & after evacuating the matter, I prepared a coagulum resembling  
egg white. I then advised him to apply an emollient poultice &c. & in two weeks he was  
cured. See page 124  
Ibid.

### Clap 5. Order 5.

Poraba. A. Racemosa. Ang. Spikenard.

Gen. Desc. Umbellifer umbeloid: perianth 5. toothed, superior: petals 5: berry crowned  
with cells & seeds. Leaves ternate (racemosa) stem branching. Fruit white  
This plant grows to three or four feet in height; leaves are many, small ovate, on  
long branches, from a thick purplish stalk; flowers inconspicuous very small, of a  
pink colour, producing berries much resembling elder berries, of a sweetish pleasant, acrid  
taste. This large grows in low moist ground & among rocks. The roots run  
under ground very long, about the thickness of your fingers, & have a very fragrant  
smell & pleasant taste.

Use. This plant is much used by the Indians. The roots have been found effectual  
in gouty complaints. The berries are Sarcotic, cordial, & anodyne, & when mixed in  
with an equal quantity of brandy & water, make an excellent cordial, very palatable,  
refreshing, & highly beneficial to persons afflicted with the gout. The med-

126 medicine has cured a man afflicted with the gout in his stomach, when other medicines had been tried to no purpose.

Pour a pint of brandy on a pint of the fresh berries, & let it stand for a week near the fire, then pour a pint of rain water on them. Keep this medicine by you as a speedy cure for gout in the stomach. Dose a wine glass of this cordial twice a day. This is a disorder which has proved mortal to my neighbor who went to his bed seemingly well, but was suddenly seized with the gout in his stomach, which carried him off in a few minutes. But had he taken a glass of this cordial I make no doubt, but his life might have been prolonged. For wound a poultice of the fresh root will cure without any other medicine, & is good for ulcers in the leg &c. Ibid.

### Clap 10. Order 11

*Pyrola. P. Rotundifolia.* Ang. Round leaved Wintergreen. Thin leaf.

Gen. Desc. Calyx parted: anthers with two pores: capsule 5 celled, dehiscent at the angles (*rotundifolia*) vacuole many flowered leaves round. juv. w. This plant rises about three or four inches high: leaves numerous on small reddish stalks, heart shaped, thick; remain green all winter, produces small red berries, of a delicious aromatic sweet taste. flowers small, of a pale purple colour. This small plant grows in abundance in pine wood where the land is good. In some places in New Jersey the woods are full of it, & the ground is green all winter, from whence it derives its name.

Use. It is refrigerative, diuretic, diuretic, astringent, consolidating, & vomit away, both internally & externally. In fevers, suppression of urine, cough & debility the following infusion is excellent. Pour two quart of boiling rain water on two handful of the leaves & roots of wintergreen, & let it simmer on hot embers for two hours: a tea cup full of this infusion may be taken four or five times a day in fevers, suppression of urine & the gravel. For weakly consumptive habits, put the fresh leaves in a mortar until you can express the juice, which must be put in a pipkin & kept over a fire until it boils, after it is cool decant the clear juice from the sediment, & to every pint of this clarified juice, add half a pint of Madeira wine or old Holland gin, as the patient likes. Dose, a wine glass full may be taken every morning, before dinner, & at lying down; the dose



increased as they find benefit. - There is a most delicious essential  
obtained from this herb, which answers every intention of the herb itself  
its fresh state: dose from four to ten drops on sugar twice a day. The  
juice of wintergreen is made by pouring one ounce of the essential oil to a  
pint of alcohol, rectified & shaking the mixture. Dose of the essence from  
two to sixty drops in any kind of tea. - This

### Clap 5. Order 5.

Peruvia. A. Studicaulis. Aug. Sarsaparilla.

Desc. For this see page 125.

Use. The roots are used as a substitute for foreign sarsaparilla. A decoction  
used in the country for that eruptive complaint called the shingles. It is also  
 esteemed a remedy to restore the tone of the stomach. Dose.

### Clap 10. Order 1.

Peruvia. C. Scolymus. Aug. Garden Artichoke.

Desc. Receptacle bristly: calyx dilated, imbricate; scales with fleshy base,  
marginate, pointed: erect pinnate, sessile (scolymus) leaves prickly or unarmed,  
marginate & undivided; calyx scales ovate.

This plant though an exotic plant well known. There are four species, but  
only two are raised for use viz. the scolymus or garden artichoke, & the carduus  
luc. or cardoon both of which are propagated by slips or suckers, arising in  
spring from the roots of the old plant. The slips should be taken from good  
plants in March, at the beginning of April, & set in an open quarter of  
the kitchen garden, in rows at the distance of five feet from each other. By  
this process artichokes may be produced in the autumn of the same year.  
The size of this fruit will gradually diminish after the third or fourth year,  
though the roots continue sound for several years. - Artichokes flourish  
best in a rich & moist soil, but if it be too wet the roots are apt to  
decay in a severe frost. They have been used with advantage in the making  
of soda; & the leaves of scolymus, prepared with bismuth impart to wool

120 a fine & permanent gold colour.

Artichokes succeed very well in this state (Pennsylvania) if left exposed in the winter months. When covered with straw in the autumn they rot. The only precaution necessary to take, is to dig a ditch round the plants to prevent the water from injuring them. For this very useful information the editor is indebted to Mr. Legaux, of Spring Mill. His artichokes were eight or nine inches diameter. The seed was imported from Holland. See page 143.

Clap 11. order 3. Act. ord. Capparides.

Ruscus. R. Odorata. Ang. Mignonette. Base. Rocket.

Gen. Desc. Calyx 4 to 6 parted: petals in many divisions: capsule 1 celled. deciduous at the top: seed uniform (stamens 15: style 3, 5, or more (odorata) leaves entire & three lobed. calyx long as petals, styles often. perian. yellow.

Use. This is an indigenous plant, growing in meadows, pastures, & corn fields, chiefly in a calcareous soil; though it is sometimes found on walls; when its pale yellow flowers appear from July to August. This neglected vegetable may be eaten in the same manner as Kale. & it was formerly reputed to possess anodyne properties. Ibid.

Clap 5. Order 1.

Campanula. C. Rotunda Glomerata. C. Perfoliata. Ang. Clasping Bell-flower.

Gen. Desc. Corol. bell form, closed at the bottom by valves bearing the stamens: stigma 3 to 5 cleft: capsule 3 to 5 celled, opening by lateral grooves. (perfoliata leaves clasping) annual. fl. blue. It grows on high calcareous lands, & blossoms in July & August. Atho. has frequently frequented the flowers of this species, yet it should be carefully extirpated from meadows & fields as being a pernicious food for cattle. Ibid.

Clap 18. Order 4.

Centauria. C. Cyanus. Ang. Blue Bottle

Gen Desc. Calyx various, mostly imbricate, roundish: corol simple, various: receptacle bristly: corol of the ray funnel-shaped longer, irregular (Cyanus) leaves linear entire lower ones toothed. annual. Blue. Exotic.

vegetable is considered as a weed, but besides the property of affording a valuable  
int. (A fine blue colour equal to ultramarine may be made by collecting the  
corn bottle flower or Centaurea Cyanus, which abound in almost every corn field  
has two blue tints; the one pale in the larger outward leaves, the other deeper  
rich in the middle of the flower; by rubbing the last white froth, so as  
express the juice it will yield a beautiful, unchanging colour. On the same  
that the flower is gathered, the middle should be separated from the extremities  
& when a quantity of the juice is obtained, a small addition of alum will pro-  
duce a permanent clear blue, which in the opinion of many persons is not inferior  
ultramarine.) it is also much frequented by bees. A decoction of the flowers with  
salts & copperas afford a good writing ink; & it may also be employed with suc-  
cess in the dyeing of linen & cotton. Ibid.

### Clap 3. Order 2.

*Linum. B. Scaberrimum. Ang. Boon Grass. Ches-*  
*ter. Desc. Calyx 2 valved; sepals oblong. teeth 2 ranked; valves awned below the*  
*(scaberrimum) awnless. panicle spreading.*  
*Flowers in July. Cathe are found of this grass, the seed of which are prevalent*  
*among eyes, in a considerable proportion, & when ground with the latter for bread, not*  
*only renders it blackish, but produces a narcotic or stupefying effect. From its flowers*  
*indeed as Bechstein informs us a beautiful green dye may be easily extracted*  
*Ibid.*

### Clap 8. Order 3.

*Hygonum. P. Fagopyrum. Ang. Buck wheat.*  
*Desc. Calyx inferior 5 parted, coloured: corolla: red: angular, covered with the calyx*  
*membranes & joints vary in number. the calyx in some species might be taken for a corolla*  
*(fagopyrum) stem smooth. Branches. exotic.*  
*Buck wheat is in flower throughout the summer, & would yield much larger crops*  
*if all the grains would uniformly ripen, & could be collected at the same time. About*  
*1/2 a bushel is sown on each acre in this country, & the Germans calculate sixty pounds*  
*weight to every square rod of land (From seven to eight weeks only are required for bring-*  
*ing it to maturity, & it produces from twelve to twenty fold. In this state it affords*

130 an excellent substitute for rice: it is affirmed that the German farmer obtains at less expense than by mowing & drying the whole, in the usual way, ten times the quantity of corn. One of the principal uses of buckwheat in this country is that of feeding horses. Mr. Fane advises it to be mixed with bran, chaff or grain either whole or broken in a mill. In dry feeding upon this vegetable are very liable to scabby eruptions. Buckwheat should be sown thin, because the top blossoms are very apt to burn in the sun, in which case the under ones will be saved as they spread out under branches. The straw of buckwheat is but little esteemed. Sheep however feed on it. It also makes good manure when thrown into the farm yard.

For culinary purposes, also the grain of the buckwheat is used in various forms & affords a nutritious meal, which is not apt to turn sour on the stomach. Buckwheat reduced to flour, mixed with water & a little yeast, will rise in the course of two hours, if placed near a fire; & being then baked upon a hot iron, previously greased forms very pleasant cakes, which when buttered, constitute part of the diet of many persons in the United States during the winter. By depriving the grain of its husk before grinding, the flour is rendered white & is much esteemed. From the fresh blossoms of these plants, Gambourey dyed wool prepared with bismuth & tin, of a beautiful brown colour, & from the dried flower bundles different shades of green. Those of Siberian species, in particular, yielded a fine yellow, which on boiling the wool still longer in the dye, changed into a golden tint, & at length assumed a brilliant yellow.

See Dom. Enc. page 421 & sequents - See my Nat. Med. vol. 1. pag 105.

Clap 20. Order 5.

Hanthium. H. Strumarium. Ang. Sea Burdock.

Gen. Desc. Staminate flowers - common calyx imbricate, corol 5 cleft, funnel form receptacle chaffy. Pistillate flowers - involucre 2-leaved, flowerd: corol 0: double, muciccate, 2-cleft: nut 2 celled (strumarium) stem unarm'd, leaves cordate-nerved, fruit an oval burr.

Use. This is a native plant growing on dung, & ground highly manured, the thro' up stem is a foot & a half high, thick, often spotted, the leaves heart-shaped lob'd on long footstalks, flowers from June to September. The leaves are bitter & astringent, they are eaten by hogs & goats, & refused by cows, sheep, & swine. Adverts

whole plant yields a bright yellow colour which however is more lively  
the ~~whole~~ flowers alone are employed. Ibid

Clap 20. Order 3.

Chaerophyllum. S. Ramosum. Ang. Burr Root.

Desc. Staminate flowers - ament roundish: calyx 3 leaved: corol 0: Petalate  
flowers - calyx 3 leaved: corol 0: stigma 2. cleft: drupe quadrup. 1 seeded (ramosum)  
leaves 3 sided at the base, common peduncle branched. green. greenish.

Use. This is an indigenous perennial, growing in ditches, marshes, & on the banks  
of rivers where it flowers in July. This plant though refused by sheep & horses, is  
seldom eaten by cattle while in a green state, but when dry it produces a hard  
odor. Its flowers while in full bloom, have by Ranches been successfully  
employed in tanning. Ibid.

Clap 5. Order 1.

Ceanothus. C. Americanus. Ang. Jersey Tea.

Desc. Petals bay like, vaulted, standing in the cup form calyx; berry or cap-  
sule dry 3 graind. (Americanus) leaves oval, serrate, downy beneath, woody. Fl. white  
Use. This shrub seldom rises more than three or four feet high, sending out bran-  
ches on every side from the ground upward. The branches are very slender, & are gar-  
nished with oval pointed leaves, having three longitudinal veins, running from the  
stalk to the point, & diverging from in the broad part of the leaves from each  
stalk: the leaves are placed opposite & deciduous, & of a light green colour. At the ex-  
tremity of each shoot the flowers are produced in close thick spikes, & are composed of  
small petals of a clear white. They appear in June.

During the revolutionary war the leaves of this shrub were dried & used as a sub-  
stitute for common tea. The plant is said to dye wool a fine strong orange cin-  
nabar colour. Ibid.

Clap 5. Order 1.

Cestrum. C. Scandens. Ang. Climbing staff tree. Waxwork. Bittersweet.

Desc. Calyx flat: corol spreading: capsule 3 angled, 3 celled, berry like: stigma 3 cleft:  
calyx 3 leaved - (Scandens) climbing: fruit berry like, red, permanent, opening with 3 valves, wood

Use. Three species are found in the United States. *C. bulbatus*. *C. scandens*, or climbing staff tree. *C. myrtifolius*. The second species possesses all the power of *sassa-parilla*. Don. Enc. This by the common people is called the bitter sweet. But it is a mistake. The *Solanum dulcamara* is the bitter sweet. An ointment is made by simmering the bark of the root, or the berries in lard which is efficacious in strains & wounds of cattle & horses. J. W. W.

Clap 12. Order 13-

Potentilla. Ang. Cinquesoit.

Gen. Desc. Calyx 10 cleft, 5 alternate divisions smaller: corolla 5 petalled: red above. Up. roundish, ovate, fixed to a dry small receptacle. This is a genus of plants comprising 35 species, of which only eight are indigenous to the United States. Use. This plant has been usefully employed on the Continent of Europe in tanning calf skins: & it is also eaten by cows, horses, goats, & sheep; but it is refused by dogs. Don. Enc. See my N. M. Vol. 1. page 107.

Clap 10. Order 3-

Dianthus. D. Caryophyllus. Ang. Clove Pink - Carnation

Gen. Desc. Calyx inferior, cylindrical, 5 leaved, with 4 to 8 scales at the base; petals with 5 claws: capsule cylindrical, 1 celled, dehiscent, at the top / caryophyllous petals connate-lobed, scales of calyx ovate, acute, few. fl. red. This genus comprehends 28 species, of which six only are natives of England. The carnation in its wild state grows on old walls, & is found among the ruins of ancient castles. It usually flowers in the month of June & July. All the clove pinks will thrive in almost any garden soil yet they delight most in <sup>in shade</sup> a light loamy nature. They are propagated chiefly by seed, in March or April, & generally come up in a month after sowing. When properly weeded & watered till July they will be fit for transplanting into nursery beds, which should be about three feet wide, & in an open situation. In these beds the plants are to be pruned during frost weather, at the distance of four inches from each other, & moderately watered, which should be occasionally repeated until they have taken good root. In September they will be fit to be finally

planted into other beds of good earth, about three feet wide in rows a 233  
at nine inches asunder. Here they are to remain till spring; but if the winter  
prove very severe, they should be sheltered with mats. In the vernal season  
they ought to be carefully weeded with a hoe, & the flower stalks must be tied  
to sticks, in order to prevent their drooping, by which their growth would  
be retarded.

Clove pink has a pleasant aromatic odour, & are said to be car-  
minative, & alexipharmic. A decoction of these flowers has been successfully used  
in malignant fevers, & as Pauli asserts they raise the animal spirits,  
quench thirst, & powerfully promote both perspiration, & the secretion  
of urine, without occasioning great irritation. Ibid.

Complanatum Clas Cryptogamia. Order 1.  
Lycopodium. L. Complanatum. Ang. Flat Club Moss.

Gen. Desc. See page 121. Article Lycopodium.  
The common club moss grows in dry mountainous places, heaths & woods. It is prin-  
cipally found in the North of England, produces a prostrate, creeping stem, from one  
to three yards in length. It flowers from July to August & bears seed, which, if sown  
in a copy wine, will, in a few days restore it. When thrown into a fire the seed  
emit a bright flash & also possess the peculiar property of being almost impervious  
to moisture, so that if they are scattered on a basin of water the hand may be  
immersed to the bottom, without being wetted. In the north of Europe they  
are pulverized & applied externally for curing chaps in the skin & other sores.  
Beautiful mats, or summer carpets are manufactured of the stalks of this  
plant in Sweden. Ibid.

Clas 10 Order 5-  
Agrostemma. A. Githago. Ang. Corn Cockle

Gen. Desc. Calyx 5 leaved, concave; petals 5, with claws border obtuse, entire; capsule 1.  
Mid. many seeded. (Githago) bristly, petals entire. annual. fl. red.  
Use It grows in corn fields & bears reddish purple flowers in the month of June or July.  
It is very prolific, & produces a great number of seed, each of which contains, from seven  
to thirty seed, somewhat resembling those of the turnip; they impart a strong taste to

184 The bread baked of corn mixed with them: such grain ought therefore to be employed in the distilleries for the manufactory of starch. There is a variety of this species, which produces similar but smaller seed than the former, & exhibits a peculiar mode of vegetation, being found within the wheat ear, one side of which is filled with good grain, & the other with a spurious one, produced by this weed. Hence husbandmen have given it the significant name of ear cockle. It is by no means so common as the former variety, but is generally attributed to bad husbandry, by which the land is exhausted of its nutritious qualities, & weakened to such a degree as to be prevented from bringing the wheat to perfection; because this plant is never found on lands that are well cultivated & properly managed. It is eaten by horses, goats, & sheep. Ibid—

Clap 14. Order 2.

Melampyrum. M. Americanum. M. Pratense. Ang. Cow Wheat.

Gen. Desc. Corol with the upper lip compressed. The margin folded back. capsule 2 celled. oblique. dehiscent on one side: seed 2 gibbous. (linear when Americanum) leaves linear. lanceolate. the upper ones toothed, bristles at the base. flowers axillary. annual yellow white.

Use. It grows in wood & thickets, especially on clayey soils. Its blossoms are of a yellow colour, with white tubes, & appear in July & August. Hogs eagerly eat the seed, but reject the plant, which is also refused by horses. It is however eaten by sheep & goats, & particularly by cows, which are extremely fond of it. Where this plant abounds the butter is yellow & uncommonly good. Ibid.

Clap 20. Order 16.

Pinus. Pinus Bahama. Ang. Spruce fir.

Clap 3. Order 1

Scirpus. Ang. Bull-rush.

Gen. Desc. Glumes chaffy, scales imbricated every way. seed single naked, surrounded with hairs or bristles. In fens & swamps.

Use. When properly cured it makes very neat bottoms to chairs; but they will be much stronger mixed with the leaves of the cat tail grass. though somewhat coarse.

Curtis,



Clas 6. Order 1. Nat. order Scabiosa

poxi. H. Præta. Ang. Yellow Bethlehem Star.

Desc. Glume like spathe 2 valued: corol superior 6 parted, permanent: capsule don-  
id, narrow at the base: seed roundish. (erecta) scape 2 to 4 flowered. peren. fl. yellow  
common in grass land & amongst bushes.

The bulbous roots are nutritious & wholesome. It makes beautiful edgings for  
gardens. Ibid. It is vulgarly & febrifuge. The roots are sometimes  
used in long standing colic & agues.

Clas 8. Order 1.

Scabiosa. Or. Biennis. Ang. Scabish, or Tree from tree.

Gen. Desc. Calyx 4 cleft, tubular, caducous, divisions deflexed: petals 4 inserted  
in the calyx: stigma 4 cleft: capsule 4 celled, 4 valued: seed not feathered. Biennis,  
ovate lance ovate stamens shorter than corol. Large. Biennial. yellow. Common in  
fields. This plant is generally known by the name of Scabious, & seems to have  
been mistaken for the Scabiosa arvensis of Linnaeus. No species of Scabious has been  
found native in this part of the country. Ibid.

Clas Pentagynia

O. stricta. O. Delenii. O. Fritocella. Ang. Upright wood sorrel. low diffus.  
proe broad. In rainy weather the leaves stand upright, but in dry weather  
they hang down. Blossoms yellow. In shady places. fl. May. August.

Dr. Withering says, The expressed juice depurated, properly evaporated  
in a cool place affords a crystalline acid salt in considerable quantity  
which may be used whenever vegetable acids are wanted. The London colly-  
rium a conserve to be made with the leaves beaten with three times weight  
of fine sugar. This juice is gratefully acid. An infusion of the leaves is an  
agreeable liquor in acute fevers. Ibid.

Clas Polygama-andric

R. Canina. Sop. Rose Wild rose.

Blossoms red. Berry pale red. Common in moist land.  
Blossoms gathered before they expand, & dried are astringent, but when full

136 Down are purgative. This species is generally preferred for conserve. A ~~dis~~ perfume water may be distilled from the ~~leaves~~ blossoms. The pulp of the berries beat up with sugar, makes the conserve of hips of the London Dispensatory. The dried leaves of every species of rose have been recommended as a substitute for every species of India tea, giving out a fine colour, a subastriquent taste, & a grateful smell. Ibid. See my M. M. vol. 1. p. 111.

Clas Polygynia.

Rubus R. Strigosus. Ang. Red Raspberry.  
Blossom white. Berry pale red. Common by stone walls. June.  
Use. The fruit is sub-acid, cooling & extremely grateful. If it be made into sweet-meat with sugar, or fermented with wine the flavour is improved. Dr. Withering says, it dissolves the tartarous concretions of the teeth. But for this purpose it is inferior to the strawberry. Ibid.

Clas 13. Ordess. Nat. ord. Hydrocharidus-

Sarracenia. S. Purpurea. Ang. Side saddle flower. Sarracene. Hollow leaved plants.  
Gen. Desc. Calyx double, 3 + 5 leaved: corol 5 petalled: stigma peltate, covering the stamens: capsule 5 celled. (purple) leaves cup form with bordered mouth, radical, perennial, purple. The leaves are tubular, somewhat resembling the horn of an ox inverted. The aperture at the top is horizontal & circular, with a broad, patent, foliaceous appendage, extending two third of the way round it. A similar appendage runs down the concave side of the root. The cavities of the leaves are large & generally contain a quantity of water. They seem to be designed by nature for reservoirs, from which the plants may constantly be supplied with moisture. The stems are erect & naked. Blossom single, terminating & reclining: petals red, the stigma which covers the disc reddish green. In moist land, especially in fens & quagmires. May, June. Ibid.

How greatly the flowers of the yellow Sarracenia represent a ~~golden~~ canopy. The yellow pendent petals are the curtains, & the hollow leaves are not unlike the cornucopia or Amalthai's horn, what a quantity of water a leaf is capable of containing, about a pint! Each of it - how cool & animating - limpid as the snow.

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dew: nature seems to have furnished them with this cordated appendage  
(2) which turns over, to prevent a too sudden & copious supply of water, from heavy  
rains of rain, which would bend down the leaves never to rise again; because their stouter  
parallel nerves, which extend & support them, are so rigid & fragile. The leaf would  
inevitably break when bent down to a right angle; therefore I suppose the water  
which contribute to their supply, are the rebounding drops or horizontal streams  
drifted by the winds, which adventitiously find their way into them, when a  
blast of wind shifts the leaf: see then short stiff hairs they all point downwards,  
which direct the condensed vapours down into the funiculum; these stiff hairs also  
prevent the variety of insects, which are caught from returning, being invited  
on to sip the mellifluous exudation, from the interior surface of the tube,  
where they inevitably perish; what quantities there are of them! These latent  
waters undoubtedly contribute to the support & refreshment of the plant; per-  
haps designed as a reservoir in case of long continued droughts, or other calamities.  
since these plants naturally dwell in low savannahs liable to overflow, from  
rain water. For a tho. I am not of the opinion that vegetables receive their nour-  
ishment only through the ascending part of the plant, as the stem, branches,  
leaves, &c.; & that their descending parts, as the root & fibres, only serve to hold  
them in their place; yet I believe they imbibe rain & dew through  
their leaves, stems, & branches, by extremely minute pores, which open on both  
surfaces of their leaves, & on the branches, which may communicate to little  
arterial ducts or vessels; or, perhaps the cool dew & shower, by constricting  
these pores, & thereby preventing a too free perspiration, may recover & again  
rejuvenate the languid nerves of those which seem to suffer for want of wa-  
ter, in great heats & droughts; but whether the insects caught in their hairs  
which dissolve & mix with the fluid, serve for aliment or support to  
these kind of plants, is doubtful. All the *Sarcocolla* are insect  
catchers, & so is the *Drosera Rotundifolia*. (Bartram—)

Claf 5. Order 1.

Viola. V. pubescens Gray. Yellow Violet.

Gen. Desc. Calyx 5. leaved: corol irregular, with a horn behind (sometimes the horn is wanting) anthers attached by a membranous tip: capsule 3 celled, 3 valved. (Perisperm)  
Leaves cordate, hairy. Petal. Blooms yellow. In shady places. May-

It is said the Indians apply the bristly leaves to boils & painful swellings, for the purpose of easing the pain & producing suppuration. Cutler.

Claf 20. Order 4.

Urtica. U. humilla Gray. Stinging Nettle. Wiskweed Urtica dioica Linn.

Gen. Desc. Staminate flowers - calyx 4 leaved: corol 0: nectary central cyathic form. Pistillate flowers - calyx 2 leaved (2 valved) corol 0: seed 1. glossy. (Gummita)  
Leaves opposite, ovate, racemes 2 parted, shortish, subcorymbid, annual -

Use. The young shoots early in the spring are a good pot herb. A leaf put upon the tongue & pressed against the roof of the mouth, is said to be efficacious in stopping a bleeding at the nose. The parts affected in paralytic cases have been recovered by stinging them with this plant. Dr. Withering says the stings are curious microscopic objects. They consist of an exceedingly fine pointed, tapering hollow substance, with a perforation at the point, & a bag at the base. When the sting is pressed upon it readily punctures the skin; & the same pressure forces up an acrimonious fluid from the bag, which instantly exerts into the wound, & produces an effect which almost every one has experienced. The stalks are dried like flax for making cloths or paper. The leaves cut fine & mixed with dough are very good for yeast cakes. Ibid

Urtica humilla vel Acleria. Gray. Water Nettle. (Claf 20. Order 4.)

Claf. Order & Generic Description as above -  
The footstalks of the leaves, & the stem of the plant is filled with water so as to make them transparent. Ibid the leaves upon scrophulous sores & they allay their irritation. They are said to be excellent for fresh Wounds S. P.

Clas 20 Order 5-

maranthus. A. Melancholicus. Ang. Love lies bleeding. Prince's feather.  
 Desc. Staminate flowers. calyx 3 or 5 leaved. corol 0. stamens 3 or 5. Pistillate  
 flowers. Calyx & corol as the staminate; styles 3. capsule 1 celled, opening transverse  
 seeds. (melancholicus) glomerules axillary peduncled, leaves lance ovate colored  
 annual. ord. exotic.  
 Use. A decoction of this plant drunk freely has been found efficacious in  
 some hemorrhages, when other powerful styptics have failed. Cutler

Clas 11. Order 3. Nat. ord. Euphorbiac

Euphorbia. E. Maculata. Ang. Spotted Euphorbia. Spurge

Gen. Desc. Calyx 1 leaved, inflated. petals 4 or 5, standing on the calyx. capsule  
 3 graind. (maculata) stem prostrate, forked, leaves hairy, spotted, annual. fl. white.  
 This is said in the Transactions of the Philadelphia Agricultural Society  
 to produce the shob or shaver in horses which eat it. It grows in corn fields.  
 S. W. W.

Clas 5. Order 2-

Sanicula. S. Marylandica. Ang. Sanicle.

Gen. Desc. Flowers of the disc abortive: umbels crowded into head-like masses.  
 seeds prickly. (marylandica) forked, leaves about 7 lobed, biennial. fl. white.  
 Use. The root is warm & aromatic. & is said to be good for pain in the brain.  
 W. W. A decoction of the Sanicula Marylandica, or Maryland Sanicle  
 is said to be employed with good effect by some of the country practitioners  
 as a diuretic in cases of dropsy. This plant grows very abundantly in  
 many parts of the United States. Barton.

Clap 8. Order 1.

Epilobium. E. Spicatum. Willow herb. Wickup.

Calyx 4 cleft, tubular; corol 4-petalled; capsule oblong, & of great length; seeds feathered. - flowers reddish purple.

Use. It is very emulaginous. Infused in hot water, it renders it as soft as slippery elm. A decoction of it has frequently proved highly serviceable in the dysentery - S. W. H.



Clap 10. Order 1.

Cnicus. C. Arvensis. Any. Canada Thistle.

Root perennial, round, almost the thickness of the little finger, of a dirty white colour, penetrating deeply, & creeping far & wide.

Stalk three or four feet in height, upright, somewhat branched at the base, round & somewhat woolly, above angular & smooth.

Leaves semi, alternate lanceolate, cut in so as to be somewhat pinnatifid, the sides somewhat pressed together, sinuated, wavy, & curled, spinous, above smooth, green, beneath pale, scarcely villous, & the uppermost one almost entire.

Flowers middle sized, of a pale purple colour, very fragrant.

Flower stalks leafy, one or two flowered, above somewhat woolly.

Calyx common to all the florets, ovate, contracted at top, imbricated the scales numerous, purplish, close lanceolate, sharp at the back, terminated by a jointed appendage, purplish, points turning a little back, & mild.

Corolla, compound, tubular uniform, all the florets hermaphrodite, nearly equal, monopetalous, funnel shaped, the tube very slender, the limb divided into four linear, reflexed segments, one more deeply divided than the rest.

Stamina: five capillary filaments, very short & white; anthers united into a cylindrical shoot, shorter than the corolla, the mouth five toothed, the teeth white, at the tips -

tilium: Germen ovate, compressed; style filiform, longer than the stam-  
ens, of a whitish red colour: stigma obtuse, finally bifid.  
& linear, slightly four cornered: down feathered sessile.

Receptacle hairy, hairs glossy. Curtis, Flora Londinensis—

After this minute description of the plant, Mr. Curtis makes the following observa-  
tions on the method of destroying it.

We have bestowed on this plant the harsh name of curd, with a view to awaken  
the attention of the agriculturalist to its nature & pernicious effects; repeated obser-  
vation has convinced us that many husbandmen are ignorant of its economy, &  
while they remain so, they will not be likely to get rid of one of the greatest  
pests which can affect their corn fields & pastures.

Of the thistle tribe the greatest part are annual, or biennial, & hence  
easily destroyed: some few are not only perennial, but have powerfully creeping  
roots, & none so much as the present; in pulling this plant out of the  
ground, we draw up a long slender root which many are apt to consider  
the whole of it, but if those employed in such business examine the roots so drawn  
up they will find every one of them broke off at the end, for the root passes  
perpendiculary to a great depth, & then branches out horizontally under  
ground.

To give an idea of its astonishing increase, we shall subjoin from  
the memoirs of the Bath Agricultural society an experiment made for  
the very purpose of ascertaining it.

April 1<sup>st</sup> 1778. I planted in a garden a piece of the root of this  
thistle, about the size of a goose quill, & two inches long, with a small head  
of leaves, cut off from the main root just as it was springing from the ground:  
By the 2<sup>nd</sup> of November following this small root had thrown out shoots, several  
of which had extended themselves now about six inches under ground, others had  
penetrated to the depth of two feet & a half, the whole together when dug  
up & washed from the earth weighed four pounds. In the spring of 1779, contrary  
to my expectation, this thistle again made its appearance, on & about  
the spot where the small piece was originally planted; there were between

142 fifty & sixty young heads, which must have sprung from the roots, which had eluded the gardener's search. Tho' he was particularly careful in extracting them: When this paper was delivered to the society from experiments then made. I was of opinion that repeated mowing or ploughing would not destroy this thistle. I have since had cause from further observation & experiments to think differently; so deep however does it penetrate, that these operations are the only ones which can well be applied to its destruction, & if they do not effectually overcome, they will greatly enfeeble it. This species is seen every where by road sides, too frequently in corn fields, & more rarely in pastures; it flowers from June to August.

In the Flora Rustica of Dr. Martin, Professor of Botany in the University of Cambridge, you will also see a figure & description of the same plant, under the Linnæan name of *serotula arvensis*. After describing the plant he observes: This thistle is known every where by road sides, too frequently in corn fields & more rarely in pastures; flowering from June to August.

It has the habit of the thistle, & is universally called so in English though Linnæus makes it a *serotula*. It is the worst pest of arable lands, having strong creeping roots, striking down to a great depth, & then branching out horizontally, so that it is very difficult to root it out when it has once got possession. Frequent & deep ploughing in dry weather will destroy it in arable land. In pastures it should be pulled or forked out when the ground is well soaked with wet.

To us mowing has always appeared to make it run more at the roots.

The goat & sheep will eat it; hares will sometimes crop the head when tender, but no other cattle seem to touch it. It is said to yield a very pure vegetable alkali when burnt."

Such is the information to which I have been led in the examination of the Canada Thistle. In addition to the practice of frequent mowing & ploughing, as the best means of destroying this weed, I would suggest the following mode of culture:

1<sup>st</sup> After deep & frequent ploughing to occupy the ground with corn, potato or some other crop which will require frequent hoeing & churning.  
2<sup>nd</sup> In the autumn after taking off the crop, again to give the land another deep ploughing leaving it the rough state, so as to expose the roots of the thistle to the frost of the ensuing winter. This process will also the better prepare the soil to be laid down in grass the following spring. In doing this I would also suggest the propriety of -



Sowing a much greater quantity of grass seed to the acre than is usually done! 43  
Pursuing the practice recommended by Lord Kames, of sowing from twenty to twenty-five  
pounds of clover seed to the acre. I have remarked that the grounds at the Elgin Botan-  
ical Garden are much more free from weed than those of my neighbors, at the same  
time that the grass is much more delicate for feeding. It is apt to be thrown down  
by the storm, & makes a less excellent hay, both more easily cured, & better preserved  
than when it is more thickly sown, but of stronger growth. How far this may prove  
an additional means of counteracting the growth of the thistle in question, I submit to  
other practical farmers. David Hoack - Hon. Saml. L. Mitchill -

Clas. Order.

Physalis. P. Alkekengi - Ang. Winter cherry -  
The berries of this the only part of it ever in use are not known in the present prac-  
tice & I have never seen them employed, but I have some reports of their being em-  
ployed by others without effect: & if their diuretic power had ever been remarkable, we  
may presume that they would still have continued in use. I cannot discover them with-  
out an observation, that as it is allowed that the berries often take a taint  
from the leaves of the plant, it will always require some caution in employ-  
ing any part of a plant which is taken for an order of a very poisonous kind. Under

Clas 18. Order 3.

Helianthus. H. Tuberosus. Ang. Jerusalem Artichoke -  
~~For general description see page 107. Artich. Cynara Scolymus -~~  
Gen. Desc. Calyx imbricate, subsquarrose, leafy: receptacle flat, chaffy, erect &  
and, caducous (tuberosus) lower leaves heart ovate, root tuberosus, green. Fl. yellow -  
Use. The Jerusalem artichoke is a plant of the same genus as the sun flower. It pro-  
duces tubers at its roots, has been long cultivated in gardens as an esculent vegetable,  
except that it is watery & of a softer consistence, in many respects resembles the  
potatoe, but is not in much general esteem. This root is however much valued for  
feeding hogs, & stone pigs. Mr. Peter, the author of "Mental Riches" published in the  
year 1772 asserts that from one acre of ground he obtained between seventy & eighty  
bushels of this root. He is of opinion that seven acres will yield three hundred & nine-  
ty tons, which will keep one hundred swine for six months, allowing each head five

144 lb. in pound per day. at an advance of value from ten to fifteen shillings, especially if they be boiled with sweet hop wash.

When these roots are given to horses. they should be washed, cut, & ground in an apple mill; the proportion given at each time is eight pounds, with two ounces of salt & a bite of hay three daily.

Another celebrated cultivator found the produce of this root to be about four hundred & eighty bushels Winchester measure, per acre without any dung. Its chief recommendations are the certainty of a crop; its flowering almost upon any soil; but not requiring manure, & being proof against the severest frosts. The culture is the same as that of potatoes. Bon. Enc.

If this plant could be propagated by seed it might make an useful product in agriculture. as horses are very fond of the leaves, & some of the roots both of which are produced in great quantity; & as the latter contain much sugar they must be very nutritive; & in respect to their culinary use are remarkably grateful to most palates, as well as nutritive when cut into slices, & baked in beef or mutton pie, but are said to be flatulent in the bowels of those whose digestion is not very powerful; a property which might be worthy of attention, where the propensity to fermentation is required, as in making bread with potatoes, or in the distillery. — Barrow's Phytologia — Section N. N. vol. 1. page 84.

Class 18. Order 2.

*Graphalium*. *G. Uliginosum*. Key. Cudweed

Gen. Desc. Calyx imbricate, with the marginal scales rounded, scarious, striate, glossy, colored. receptacle naked. corolla yellow, or plumbeous. (Flowers often all perfect) (Uliginosum) — stem much branched. leaves lance linear tapering to both ends. racemes crowded terminal. annual. white.

Use. It has a root that creeps every way, & the leaves that grow from it lay on the ground; these are oblong with a brownish point, of a light green colour, & have on the under side; among which arise the stalks to near a foot in height which are covered with a sort of down or cotton; & the leaves are long & narrow. The flowers are on the top of the stalks, which consist of florets in the form of a star, which are placed on an embryo & comprehended in a scaly, shining cup. This turns to a seed with downy thread thereon. It is cooling in cragating, & astringent, & has been recommended in disorders of the lungs, as well as for stopping catarrhs. & there has been a course kept in the shops for these purposes. — Brooks —

Clap 20. Order 2.

Lemma. L. Minor. Ang. Ducks meat.

Gen. Desc. Staminate flower - calyx, leafid: corol 0: Pistillate flower - calyx leafid: corol 0: capsule, cellid, 2 seeded (minor) leaves oval flat both sides covering the stem, root solitary.

Ducks meat is generally seen on the top of stagnating waters, where it swims like a green mass & the whole surface is covered with small leaves that are round, & compressed like a lentil. They are greenish above but blackish below, & they are hid together with very slender white filaments from which a root they derive their nourishment. They have neither flower nor fruit, at least none that we yet discovered. Ray looked upon the infusion of Ducks meat as a secret against the jaundice. When six ounces of it are taken in white wine for nine days together in a morning fasting. Some have used as a cataplasm against the gout, & to ease the pain of the piles. It is called Ducks meat because ducks are very fond of it. Ibid.

Dilobe Clap 13. Order 13.

Hepatica. H. ~~Scabi.~~ Ang. Noble Liverwort.

Gen. Desc. Calyx three leaved: Petals 6 to 9: red naked. This has a fibrous perennial root, composed of several heads or knots, from each of which the flowers proceed, & then the leaves, which consist of three lobes growing on a pedicel that rises from the root; the pedicel of the flower is naked & single, & the calyx consists of one leaf cut into three segments. The flowers are maroon, & are composed of six or eight blue petals, & many stamina with thin spines; the pistil is globous & warty, & turns to a head containing several sharp seeds. There are other kinds with flowers of different colours by which they are distinguished from each other. It is accounted a vulnerary, but is now of little use among us, though many affirm it is cooling, gently astringent, & an excellent strengthener when the fibres are lax. Ibid.

Class Cryptogamia. Order 1.

Polypodium. P. Vulgare. Ang. Fern. Polypody.

Gen. Desc. Capsules disposed in round scattered dots, on various parts of the lower surface of the frond. (vulgare) frond pinnatifid with oblong obtuse subovate lobes, root with chaffy scales.

It has a root six inches in length, & almost as thick as a man's little finger, that creeps along the surface of the ground; it is full of tubercles or warts & is easily broken. It sends forth leaves, which are like those of male fern, but much less, & they are deeply cut almost to the rib, into long, narrow segments which are covered on the back part with a sort of reddish powder. This examined through a microscope appears to be spherical, membranous shells, which open, & let fall small yellow seeds, in the form of a kidney. It is a capillary plant, & consequently bears no flowers; it grows in forests, valleys & among stones covered with moss, as well as on the trunks of old trees. The root only is used in medicine, & that is accounted best that is found upon oaks. It is green all the year, & in April it sends forth fresh leaves. The ancients accounted this root to be purgative, but it does not so much open the belly, or at least very weakly. Some affirm that it opens obstruction of the urina, but the best authors are not agreed in its virtues, though it has been much used in medicine - Ibid.

Class 18. Order 1.

Carthamus. C. Cocculus. Ang. False Saffron. Ladies Thistle.

Gen. Desc. Calyx ovate imbricated with scales; ovetish. leafy at apex; egret chaff hairy. Iron: receptacle chaff bristly. (cocculus) egret hairy. Leaves thorny toothed. Fern. This has a long thick fibrous root, & long, broad, sinuated leaves, crenated on the edges, with many hard, shining, smooth, stiff prickles, of a light green colour, & variegated with lines or stripes of white. The stalks are about as thick as ones fingers, striated, & covered with a hairy down, & are branched, & are two or three cubits high. The flowers grow on the head of the branches, & consist of many purple tubulous florets, divided into five parts at the top, each of which are placed on an embryo in a scaly, bristly calyx. Each embryo turns into a smooth

at mid. a little flattish & furnished with down. It grows in uncultivated places 41  
by the way sides. The tender leaves after the petioles are taken off, are eaten  
as a salad, & they are said to have the same virtues as *carduus benedictus*.  
The seed is excellent for the pleurisy, rheumatism, & pains of the breast. & is given  
in emulsion from one dram to two. Wid. See my M. M. vol. 1. page 61  
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### Class Cryptogamia. Order 1.

Asplenium. A. Putamararia. A. Trichomanes. Ang. Splenwort.

Gen. Desc. Capsules in lines parallel to each other situated exactly upon the secondary  
veins of the frond: involucre opening inwards. (By the secondary veins is meant those  
in the middle part of the disc, not the larger ones at the margin or midrib. The  
parallel lines of capsules may stand obliquely with respect to the midrib, but their di-  
rection must be parallel to each other.) (*putamararia*) frond only pinnate at top  
with obtuse leaflets.

This is a small plant, six or eight inches in height: leaves upright un-  
branched & pinnate, the ribs are blackish, pinnae in pairs annexed, gradually di-  
minishing towards the top.

It grows in bunches in low wood, near moist meadows & among rocks.

Its leaves are pectoral, aperient, & diuretic, they open obstructions of the viscera  
promote expectation, assist urine by cleansing the kidneys, they pain in  
the urinary passages by gently carrying off sand & gravel, & has cured the ve-  
nerial disease.

Put an handful of the <sup>dry</sup> plant into a quart mug, & fill it up with  
boiling water: draw a teacup full taken four times a day, sweetened with  
honey. In the cure of hypochondriac affection, the patient may take  
a spoonful of the expressed juice of the plant twice a day, beginning  
the first day to take but half a table spoonful at a time. I have known  
as their reason restored by drinking the juice of this plant. — I have been  
repeatedly informed of a countryman who came down the river Delaware with  
what is called a fever, who had the misfortune of catching the  
venereal disease. & that on his return he met with an Indian Squaw,  
who by the use of this plant cured him in a few days. Hence —  
#

Clap 10. Order 1.

Veronica. V. Praelata. Ang. Devil's Bat. que.

Gen. Desc. Calyx imbricate, ovate; equal double, exterior shaggy, & short, interior capillary; ocreptach naked; stigma & cleft striate. This is called Scabious by some. It has a perennial short root, that seems to be bitten off in the middle, & it is furnished with long fibres. It sends forth oblong pointed leaves like those of common scabious, but they are whole & not cut, except those on the upper part of the stalk, which are crenate on the edges, & are green above than below, as well as rough & covered with such short hair that they seem to be smooth. Late in the season, there arise from among the leaves several stalks, that are round, firm, reddish, branched, & have two small leaves at each joint, which flower at the top like those of the common Scabious, but the heads are thicker & of a bluish colour. Though sometimes they are purple or white, there are succeeded by several round furrowed seeds. It grows in uncultivated places & in meadows, & pastures, & it flowers in the autumn. It has been looked upon as an alexipharmic, & vulnerary, & has been by some reckoned excellent in the gummy, & in venereal ulcers of the mouth, & throat. Books -

Clap 12. Order 1.

Eugenia. E. Caryophyllata. Ang. Clove-tree.

Gen. Desc. Cal. 5 part. superior. petals 4. bacca. 1. loc. 1. sperma -  
Use. This is a beautiful tall tree, a native of the Molucca Islands. Cloves are the unexpanded flowers, which are dried by fumigating them & then exposing them to the sun. They have a strong aromatic odour & a pungent taste. This afford to water their flavour principally; to alcohol their taste. By distillation with water they yield a fragrant essential oil not very pungent. The oil of cloves commonly met with is rendered sweet by certain additions -

Cloves are among the most stimulating aromatics; The dose of them does not exceed from five to ten grains. They are employed principally

adjuvants, or corrigents to other medicines. The essential oil is used  
with the same intention, & likewise as a local application in tooth-ach; but  
from its pungent nature, it is apt to corrode the gums & injure the adjacent  
the Thacher

Clap 16. Order 10.

Robinia. R. Pseudo-acacia. Ang. Locust-tree

Gen. Dec. Calyx 4 cleft. upper division 2 parted. banner large, reflexed, roundish.  
legume gibbous, elongated. (pseudo-acacia) racemes pendent. legumes smooth, stipules spi-  
rous. woody. fl. white

The Locust tree is a native of the United States, but was not known north, or east  
of the river Potomac, before the white settlers brought it from thence. It is the  
Robinia pseudo-acacia of Linnaeus with a white & fragrant blossom. It has inpe-  
riour advantages for beauty or use to most trees of foreign or domestic growth.  
The delicacy of its green shade is most pleasant to the eye, & so agreeable to  
vegetation, that the earth beneath a locust grove, or within the embrace of a sin-  
gle tree is covered with a luxuriant foliage of tender grass. The odour of its leaves  
is pleasant, but that of its papilionaceous blossom is delightful. As an orna-  
mental tree it is not excelled by any forest tree of our own country. When in  
full foliage no tree has a more delicate appearance to the eye of the  
 beholder, or a more agreeable shade to man or beast. Some admire the dogwood  
(cornus florida) some the bean tree (lignonia catalpa) others the horse chestnut  
(scutellaria hypocastanum) some the white wood or tulip tree (liriodendron tulipi-  
fera) all natives of our own forests; but none of them can compare with the lo-  
cust either for beauty or utility. It therefore appears of importance to in-  
quire into its properties, & point out some means of cultivating it to advantage.

The locust tree is of quick growth, the wood of which is hard, durable  
principally used in ship building. In a country situated like the United States  
with an extensive line of sea coast, penetrated by numerous bays, & giving rise  
to many great rivers whose banks are covered with forests of extraordinary  
growth, whose soil is fertile rich & variegated, whose climate is agreeable  
diversified by a gradation of temperature; to such a country inhabited

In an industrious & enterprising people, commerce both foreign & domestic must constitute one of the principal employments. As long as this country possesses the necessary timber for ship building, & the other advantages which our situation affords, the government will continue to be formidable to all other powers. We have within ourselves good materials necessary for the completion of strong & durable naval structures. These are the live oak, locust, cedar & pine, which can be abundantly supplied. The former is best for the lower timbers of a ship, while the locust & cedar form the upper works of a frame. The pine supplies the timber for decks, masts, & spars. A vessel built of live oak, locust & cedar will last longer than if constructed of any other wood. The locust a native of Virginia & Maryland is in such demand for foreign & domestic consumption, that it is called for before it can attain its full age. It has been cultivated as far eastward as Rhode Island, but begins to be deficient in quality in that state. Insects attack it there which are not found in New York or its native situation. These give the timber a worm eaten appearance, & render it less useful. The locust has been extensively raised in the southern parts of New York, but the call for it has been so great, that few trees attain any size before they have been wanted for use. Hence they are in great demand & ready sale, & no ground can be appropriated for any kind of timber with so much advantage as locust. Besides its application for ship building it is extensively used for fencing, & for posts or timber will last longer in or out of ground. On Long Island, where wood is scarce, & fencing timber in great demand, the locust becomes of much local importance from this circumstance alone, independent of its great consumption in this city among the carpenters. In ship building it is not exclusively applied to the interior of a frame. In many places where strength is wanting locust will bear a strain which would break oak of the same size. Thus an oak tiller has been known to break near the bill head of the rudder in a gale of wind which has never happened with a locust one. Tiller for large vessels are now uniformly made of locust in New York. It is the best timber for pine or trunnels, & preferable to the best of oak. The tree generally grows straight with few or no large limbs, & the fibres are straight & parallel which makes it split well for making trunnels with little or no loss of substance. They are made in considerable quantities for exportation.



The locust tree does not bear transplanting in this part of the country, & in all probability this arises from the custom of cutting off the roots when taken up for that purpose. Most of the roots of the locust are long, cylindrical, & run horizontal & far under the surface. In transplanting, so few of them are left to the body of the tree removed, that little or no support is given to the top, & it consequently dies. If care was taken not to destroy so much of the roots, a much larger proportion of those transplanted would live & thrive. So great has been the difficulty of raising the locust in this way, that another method of propagating has been generally resorted to. Whenever a large tree is cut down for use, the ground for some distance around has been ploughed, by which the roots near the surface have been broken & forced up. From these roots suckers shoot up, & the ground soon becomes covered with a grove of young trees. These, if protected from cattle & fenced in, will grow most rapidly & the roots continuing to extend new shoots arise & in a few years a thrifty young forest of locust trees is produced. The leaves of locust are so agreeable to horses & cattle, that the young trees must be fenced in to preserve them. When growing in groves they shoot up straight & slender, & if standing to one another, to receive the most benefit from the rays of a genial sun.

As the difficulty has arisen in propagating the locust from inability to raise it from the seed. The seed does not always come to perfection in this state, & if slow, it will not sprout unless prepared before planting. The method best adapted to this purpose has been long ago proposed by Dr. Baill, but it is not generally known, or if known is not usually attended to. When this shall be well understood & practiced the locust will be easily propagated, & then instead of raising groves of them, the waste ground along fences & places where the useless Lombardy poplar encumbers the earth, should be selected to transplant them separately & singly, there will be an economy in using the soil, & the trees will grow much taller & stronger timber.

Dr. Baill's method of preparing the seed was to pour boiling water on them & let them stand & cool. The hard outer coat would thus be softened, & if the seed swelled by this operation, it might be planted & would soon come up. This has been followed with success on Long Island. In a late visit to North Hants I was led to admire Judge Mitchell's nursery of young trees planted this spring.

152 The Judge took a quantity of seed <sup>selected</sup> on the island, & put it in an earthen pit  
che & poured upon it water near to boiling. This he let stand for 24 hours, & then decanted  
it & selected all the seed that were any way swelled by this application of heat & mois-  
ture. To the remainder he made a second libation of hot water & let it remain also 24  
hours, & then made a second selection of swelled seed. This was repeated a third  
time on the unchanged ones, when nearly all were affected, & then he prepared  
the ground & planted them. He planted the seed in drills about four feet apart  
& in eight or ten days they were all above ground, & came up as regularly as  
beans or any other seed that are cultivated in gardens. When I saw them the  
middle of July, they were about a foot high, & thrifty & of a good colour.

It is the Judge's intention to leave them in this present situation about  
three years, & then transplant; & provided he does not mutilate the roots in re-  
moving them they will bear transplanting, live, & thrive, & be the most productive  
tree that a farm can have. This method of preparing the seed, & planting the  
locust, cannot be too warmly recommended to the farming interest. *Sand. Akeley-*  
*American Monthly Mag. vol. 1. p. 363.*

Clap 10. Order 2. Nat. Ord. Compositae  
*Erigeron. E. Canadense - Aug. Canad Flea-bane.*  
For Generic Description see page 108. Art Erig. Philadelphia -  
Receipt. medium. *Pappus pilosus. Corol. radii linearis angustissima*

The *Erigeron Canadensis* is an annual plant. It appears to like a dry, gravelly, &  
somewhat elevated soil. I have known to arrive at perfection on the roof of a house where  
the roots found only sufficient ground to support its weight. Its usual height is  
about four feet, though it sometimes grows to six feet. The stem is hairy, &  
has sometimes branches near the top in the form of a cone. The specimen which  
I have examined, had the lower leaves subdentate agreeing with the account of Scop-  
oli in his *Flora Carniolica* "Folii vni dentati" but a gentleman informed me  
that in the vicinity he has sometimes seen the upper leaves dentate, which we  
conclude the authorities of Scopoli with that of Wethering, who says "the leaves above  
with distant serratures. The calyx is short linear & inner scales longest. It flowers  
from the beginning of August to September. The florets are very small, on slender  
pedicels; yellow in the center; in the circumference white with a tinge of red."

manners in which Linnæus expresses the colour of the gull blown flowers (above 154)  
blids) is not sufficiently definite; the pale ground has a tinge of yellow/dilute tinge  
any part of the plant as Clayton observes is odouriferous, & diffuses an agreeable  
flavour through the field when the flowers are in full bloom.

Medical Use. This plant has been reputed as an antidote to the bite of serpents,  
venomous reptiles, & as efficacious in removing tumours.

The Erigeron Canadense was first introduced into the practice of the New York  
Alms House in 1812 by Dr. Gilbert Smith, the attending Physician. It was re-  
commended to him by a medical gentleman who had witnessed its efficacy in a case  
of diarrhoea, after the usual remedies had failed to afford relief, was speedily  
cured by a decoction of this plant, under the direction of a female acquaintance.  
The decoction & infusion were administered in the Alms House with de-  
cided advantage in diarrhoea. Several distressing cases were cured & others relieved  
by a few doses; but it also sometimes disappointed our expectations, & what at first  
appeared in some instances unaccountable, evidently aggravated the complaint.

This was owing to the preparations speaking in warm weather before the quan-  
tity allowed was taken. I then prepared the extract & tincture, both of which  
succeeded in curing a great majority of cases in which they were taken. After  
proper evacuations, a few doses were generally sufficient in ordinary cases that  
had not become very inveterate. It was sometimes intentionally given in some  
instances of recent diarrhoea without any previous evacuations, though they  
were obviously indicated; in almost every case of this kind it averted the  
complaint as speedily as when evacuations had been performed. A friend of  
mine was attacked with a troublesome & debilitating diarrhoea, during a  
visit to the city, he was anxious to be immediately cured - two doses of half  
an ounce of the tincture had the effect. But it is manifestly improper to restrain  
diarrhoea when the contents of the bowels are vitiated, before they have  
been thoroughly evacuated - pain may be the consequence, & I have known this  
to follow such premature use of the Erigeron Canadense. I was enabled to try  
its efficacy in many cases of chronic diarrhoea in consequence of the small quan-  
tity of flowers which I had gathered, but in some cases of long standing were com-  
pletely cured & others were much relieved by a few doses which were given only to

54 observe its operation. Six drops consisting of only one grain of the extract completely cured one patient sixty years old, of a distressing diarrhoea, with which she had been afflicted for two months, & by which she was very much debilitated.

What it does to the frequency of the above discharges, it generally though sometimes but temporarily, quieted the pain & griping attendant on diarrhoea. The tincture & extract almost uniformly increased the quantity of urine, & it not unfrequently operated as a powerful diuretic. In Cases where diarrhoea depended on affection of the liver, as might be expected, received at best but temporary benefit from the use of the Rujeron.

Recent dysentery It is worthy of remark that the Rujeron Canadense was, in no case, accompanied by those auxiliary means which we find it sometimes advantageous, & even necessary, to combine with those more active remedies on which chief reliance is usually placed. The increase of urine which was uniformly observed to attend the use of the tincture & infusion, induced me to prescribe the latter in a case of Acute, in which the quantity of urine was considerably less than natural. The patient was directed to take a pint of the infusion daily; his ordinary drinks were so regulated as not to interfere with the result. The quantity of urine amounted the next morning to twenty four ounces. The same quantity of the infusion was continued, & the secretion increased until the fifth day, when it amounted to sixty seven ounces; the swelling had evidently subsided. He now objected to continue the use of it, on account of the taste being unpleasant to him, & was ordered to take calomel & squills by the attending Physician.

I once gave the tincture in a case of Dysuria, in a patient subject to spasmodic stricture, accompanied by painful contraction of the bladder, & vesical scalding in the urethra; the relief it gave him was so speedy & complete, as to induce him to accompany his thanks with the most lively expressions of gratitude.

It has already been shown that the infusion & tincture operated more powerfully on the kidney than the other preparations, which makes it probable that its diuretic quality depends on the aromatic property essential oil it contains. The tincture may be made by digesting one ounce of the leaves in a pint of Brandy or diluted alcohol, & filtering it after eight

is; this possesses the pleasant flavours of the plant, & is an eligible pre-  
paration as it possesses all the qualities of the plant in a small compass -  
the volatile is dissipated in making the decoction & extract; but the latter is  
convenient & powerful preparation if carefully made. If the decoction be  
preferred it should be made with milk - one ounce of the leaves to a quart of  
milk, makes rather a pleasant drink which is rarely objected to by children.  
De Puy. Transactions of the Phys. Med. Society N.Y. Vol. 1. p. 49 -  
Sims M. M. vol. 1. page 75

Class Decandria. Order Monoginia. Sect. ord. Erica.  
Chimaphila umbellata. attened from Poyrola.  
Pyrola. P. Umbellata. Ang. Umbellid Wintergreen. Pepsissawa.  
Gen. Desc. Calyx quinque partitus. Petala quinque. Capsula superiora, quin-  
quelocularis, angulis dehiscens, polysperma. Antherae, foris duobus.  
Specific character: Floribus subumbellatis.

In Dr. Russ. Cyclopedia the following description of the Pyrola umbellata  
is to be found. Umbellid signifies that the flower open broad at the top, like  
an inverted bell. "It is a native of the wood in the northern part of Europe, Asia  
& America. Mr. Pursh found it frequent in dry woods from Canada to Vir-  
ginia. Of the twelve different sorts, Dr. Sims asserts this to be the most beauti-  
ful of the genus. The stem is woody a span high, somewhat branched, reg-  
ular & rough. Leaves crowded together into something like whorls, stalked,  
narrow, obovated, bluntish, strongly serrated, dark green & veiny above, paler  
beneath about an inch & a half long. Flower stalks terminal, solitary, three inches  
long, reddish, bearing about five imperfectly umbellate, singly. Partial stalks,  
each an inch long, spreading rough with glandular pubescent. Flowers larger than  
the other kinds & drooping. Petals orbicular, concave, cream coloured; connate at  
the base. Stamens short, red, all regularly inflexed. Anthers short, purple with  
white tubular pores, dilated & lobed at the orifice. Germen globose, green.  
Style thick & very short, but certainly present. Stigma orbicular, connate  
with five slight notches. The American specimens are usually less umbellate,  
more racemose than the Europeans."

56 Use. The highly respectable character & reputation of Mr. Cooper, preclude every doubt of the truth of the following statement, which is extracted from the New Gloucester Farmer, a valuable paper printed in New Jersey. Boston Intelligencer.

Cure of Cancer. In looking over one of your papers I observed an extract (I think from an eastern paper) which mentioned that Pipisaway would cure the cancer but made no mention of the manner of using it. I have been troubled with something on the side of my face, which I heard was of the cancer kind, as its progress & appearance was similar to several I had seen in the early stages which proved fatal. I shewed it to Dr. Bowman Hendry, who advised Lead water, which I tried as he directed, but it continued to increase in size & uneasiness, so that I could not shave myself on its account. But on one of Dr. Logan's visits, I showed it to him, & related what I had seen in your paper. He said he had seen the same, & no direction how to use it; but advised making a strong decoction of the herb, & with a soft rag wet it as often as convenient, & drink freely of the tea. I followed his advice, & often held the wet rag to the part affected several minutes at a time, & frequently wet it when I awoke in the night. The bump soon began to decrease after the commencement of the above treatment, & in less than three weeks totally disappeared.

I had several scabby places about me, one near one of my eyes, which had been troublesome for several years past. I tried the decoction of them as to the other, with the like success. As the Cancer is one of the greatest calamities that ever afflicted the human frame, & prevention is preferable to cure & the above method perfectly safe & easy I think it my duty to recommend & advise all persons, who may apprehend occasion, to make trial. Yours for &c Cooper.

P.S. This is said to be a remedy not only for the Cancer but also for the Dropsy & may be drunk as a substitute for Chinese tea, & in this manner has been used by a physician of very high standing in this Country.

An account of the diuretic effects of the Pyrola umbellata of North America, was read at the late meeting of the Medico-Chirurgical Society. This plant has been long since used by the Indians, in cases supposed to arise from defective secretion of urine & promises to be a valuable acquisition to the materna medica. It has the property of

creasing the appetite, & has been found serviceable in some cases of dropsy. *15*  
New Eng. Jour. of med. & surg. p. 193-

A Case. Mr. Carter hospital surgeon at Fort William Henry in a letter to Wm. Somerville M. D. states that having a patient, private John McCan of the 49<sup>th</sup> regiment, labouring under ascites, & after administering digitalis, crystals of tartar, & other diuretic medicines to no effect, the water in the abdomen continued to increase rapidly. I was resolved previously to my making use of the trocar to try the effect of the herb de paigne (the Indian name for the Pyrola umbellata) He commenced taking a strong infusion of the plant on the 15<sup>th</sup> instant (April 1811) The next morning when I visited the hospital, I was agreeably surprised, when he informed me, that he had voided more water in the night than he had done in three nights & days previous put together, which I believe to have been the case from the quantity he showed me he had made in the night. The colour of his water was entirely changed from that of brick dust to the colour exactly of the infusion of the herb he had drunk. The water in the abdomen continues daily to decrease, & I have the most sanguine hopes of his speedy recovery.

The herb does not appear to possess any narcotic qualities, being perfectly innocent in its operation.

Dr. Somerville says: - With a view of ascertaining the power of the medicine I ordered a pint of the infusion to be drunk by ~~the~~ a young man who had fractured his arm, but who was in perfect health in all other respects. He was not supposed to look for an increase in the quantity of his urine. He informed me next morning that he should have slept well, if he had not been constantly waked by calls to make water.

The herb called by the Indians de paigne, & by the Canadians le herbe de a pisse, is the pyrola umbellata of Linnaeus.

I have generally found the good effects of the pyrola upon the stomach. & as far as my own experience or information extend no circumstance has occurred to forbid the use of it in any form, or to limit the dose. The surgeon of East York militia was cured of dropsical symptoms by the extract of Pyrola.

Dose a <sup>grain</sup> strong infusion of the Pyrola in twenty four hours - *Med. Chir. Transact.*  
See my Med. Med. Vol. 1. page 64

*Exocarpia Agallocha*



*Aquilana ovata*





On the aromatic Wood of Aloe, with a Botanical description of the *Exco-*  
*caria Agallocha.* & the *Aquillaria Coata*:— By Professor Willdenow of Berlin.

The agallochum which is known by the name of Aloe wood, or the aromatic aloe, is one of the most valuable spices imported from the East, & has been held in the highest estimation even in the earliest ages. According to the different species of the plant, it is called *lignum aloes*, *agallocha vera*, *aquilinae*, & *calambac*, all of which differ remarkably in their sensible properties. It is however very difficult to ascertain the botanical character of these various species.

The aromatic wood of aloe is properly a resin, which has pervaded the pores of the tree. The genuine sort of this precious resinous wood is as precious as gold, & is used only by the great & affluent in the East Indies, China & Japan, as an agreeable perfume, with which they fumigate houses; hence it is but rarely imported into Europe. It is black & variegated with grey veins, swims on water, & if strongly rubbed on glass, leaves behind resinous particles, which neither water, saliva, or pressed air, nor an alkaline lye, but spirit of wine only, will dissolve & remove. Its odour is very grateful.

This substance has in former times, been much used as a medicine, not only in biliary complaints, diseases of the liver & stomach, & dysentery, but likewise as a remedy for the snaw-worm, but at present it is entirely neglected in a revolution to which several of the ancient remedies have been subject, & which is likely to take place with many of the modern.

Father De Loureiro assures us, that he discovered in the Province of Cochinchina the tree which affords the true aloe. This aromatic wood is found in various maps, only in old, half decayed, hollow trees. According to this writer the tree belongs in the system of Linnæus to the first division of the tenth class, the *Dicandria Monogynia*: he called it the *Aloexylon Agallochum*. It grows in the highest mountains in Cochinchina, on the banks of the river Lay which flows thro' the whole of that Province. Loureiro had no opportunity of seeing the blossoms of the tree; he could only once obtain them dried, & transmitted by a friend, that the parts of fructification were much bruised & lacerated on a long journey he could with difficulty give the following description:—

60 Alcornoque Agallochum. Differ. spec. Aloe. foliis lanceolatis, alternis,  
pedunculis polyfloris, terminalibus. — Flab. Arbor magna: Trunco & ramis erectis,  
altissimi. cortice canabino, fusco, glabro, nec crasso. — Folia lanceolata, octo  
polyca longa, integerrima, plana, glabra, subcoriacea, alterna, petiolata. Flos  
terminalis, pedunculis polyfloris. Usus. — Ligni hujus fuscamenta inter omnia max  
ime aestimantur, apud nationes Orientales. Ex arboris cortice fit vulgaris Charta  
in qua Cochinchinenses scribunt, sicut in Japonia ex cortice Mori.  
Virtus medica. Excitant, corroborans, cephalica, cardiaca. Suffitus valet con  
tra vertiginem & paralysem. Pulvis cohibet vomitum & fluxum ventris. Praecipue duntaxat  
quod non proprie astringendo, sed corroborando agit.

This tree is not of a poisonous nature, & yields a milky sap when perforated.  
With respect to the gummivood of aloe, Loezio maintains that the various spe  
cies differs remarkably, both in colour & flavour. By some botanists this aromatic wood  
has been confounded with the Lignum Aquilae, which is likewise esteemed for its agree  
able odour, & like the Agallochum verum, Calambac, & Gars de Malacca,  
afford the different species of Perfume.

### Aquilaria Ovata.

Gen. Desc. Calyx tubinatus, coriaceus, semiquinquempartitus, laciniis ovatis acutis  
partibus persistentibus. — Corolla nulla. — Stamina: necobis calyci immo adherens, mo  
nophyllus, quinquepartitus, laciniis crispis tomentosis profunde bifidis, adhaerentibus  
vidus apparent. Ex singulis divisionibus totidem adsurgunt filamenta brevissima  
squamulis breviora: antherae decem, oblongae versatilibus. — Germen in squam  
ulorum centro & fundo calycis, ovatum, coronatum stigmatibus brevi simplicibus  
Tructus: capsula pyriformi lignosa, bivalvis, biloculari, dissepimentum, bis  
partibili immasens valvis medio septiferis: suturam ambiente membranata  
brevis. — Semina solitaria nigra corpore spongioso circumdata; alterum  
saepe abortivum. — Habitat in Malacca montibus.

Differ. spec. A. Foliis alternis, ovatis, mucronatis. — Gars de Malacca. —  
Arbor, cujus rami constant ligno albicante luteo, cortice griseo tecti; villis qu  
tenuissimis summatibus. — Folia alterna, petiolis sustentata brevibus pilosis  
ovata terminata mucroni, integra, glaberrima, unineuria, nervo ramoso, denique

Of this plant we have given our readers an accurate copy taken from the work we quote: & it is remarkable that Linnæus describes probably the same plant in his "Flora Cochinchinensis" under the name of *Ophisperrum Chinense*; as it differs from the former only by a long filiform style, & a bipartite stigma. Perhaps this apparent difference arises from the flowers of the plant described by Cavinelles having been injured by being dried & compressed between papers. He has given no description of the Calyx, & is of opinion that it does not exist. Professor Wildenow however supposes that the specimen in question is in this respect incomplete. The fruit is a compact, lignous, oviform, compressed, two-celled capsule. Each cell contains a seed with a fungous edge. According to Linnæus this plant belongs to the first order of the tenth class. The *Dicandria Monogynia*.

Sonnat & Kraempfer assure us, that the genuine wood of aloe, which is so highly valued, is obtained from this tree; & it is nevertheless probable, that several trees afford that precious drug; for all writers on the subject observe that the difference among them, both in scent & odour, is remarkably great.

For the same reason Professor Wildenow is inclined to believe that the *Excoecaria Agallocha* of Linnæus yields a similar drug, which has been introduced into commerce, under the specious name of *Aromatic aloe*. - The reader will find a sketch of this tree, with male flowers, on the annexed plate; & as the work of Linnæus is generally known, we shall, instead of transcribing his description, translate that given by Professor Wildenow in German.

This tree (says he) grows wild in the East Indies, & belongs to the third order of the thirtieth class of Linnæus, the *Dioecia Triandria*, that is the male & female flowers grow on distinct stems, & the male flowers have three filaments. The trunk of this tree is of a very considerable size. The bark on the smaller branches is of a light brown colour, smooth, & somewhat cracked. The leaves come out alternate, are petiolate, ovate, sharp-pointed entire, coriaceous, of a deep green colour, & glossy on the upper surface. The flowers are disposed axillary, on several pedicels. The male flowers are green, & in their growing state short & columnar. The filaments are gradually developed, become progressively longer

62 I have yellow anthers. Linnæus asserts that the male catkins are composed of many filaments, three of which uniformly stand together. But, the male flower (which only the Professor had an opportunity of examining) he observed a roundish pointed scale, a small corolla of two petals, & three anthers. The female flowers are green, arranged in catkins, & formed like the male flowers. The germen is round, & has three styles. The fruit is a three-celled capsule. On cutting the tree, a quantity of milky sap flows from the orifice of the wound, & if it be brought in contact with the eye, occasions blindness. In very old hollow stems, there is a resin which has penetrated thro' the brittle wood, & is likewise known in commerce, by the name of *Lignum aloë*.

From this account we may conclude, that the best & most valuable wood of aloë is contained in the *Albexylum Agallochum*; next to that one of an inferior quality from the *Aquillaria Ovata*, & the most indifferent kind, from the *Excoccaria Agallocha*.

#### Explanation of the Plate.

*Excoccaria Agallocha*: a. A branch of the natural size, with the catkins just opened.

b. A catkin in full blossom.

*Aquillaria Ovata*: c. foliated branch

a. b. Two flowers of the natural size.

c. The flower represented full blown, but somewhat magnified to display the nectary, with the stem & the pedunculus.

d. The nectary magnified with the filaments.

e. A filament with the anther much magnified.

f. The fruit with the calyx of the natural size.

g. The same dissected.

We are indebted to a correspondent whose paper is signed Philo & is dated August 26<sup>th</sup> for the following communication, which we presume will not be overlooked by our botanical readers: — Exsurgere

Clap 3. Order 1.

Eriophorum. E. Cyperinum. Ang. Cotton Grass. Hawk-tail rush-

Gen. Desc. Glume chaffy, imbricated every way: seed best round with very long dense woolly hairs (cyperinum) panicles three compound one growing from the top of another. perenn.

Use Springs in March & February. Sheep are remarkably fond of it, not only of the leaves, but of the roots; working in the ground up to the eyes to get them. Shepherds assert that sheep reduced by hunger will recover faster & throw much better upon this plant than turnips. It is a valuable plant for three or four weeks; but after it has flowered the sheep totally neglect it. Sticks of candles are made of it by the poor. Grows naturally on moors & bogs. Rushes & sedge are mown for litter & for fodder. (Glennings of Husbandry)

Clap 12. Order 13-

Spiraea. S. Trifoliata. Ang. Meadow sweet. Bowman's root, or Indian physic

Gen. Desc-

Clap 18. Order 2.

Artemisia. A. Vulgaris. Ang. Artemisia.

Gen. Desc. Calyx imbricate, with scales rounded, converging: sepal 0: receptacle somewhat villous or mealy (flowers mostly rounded) (vulgaris) divisions of leaves all acute & toothed. perenn.

Use. This as a fetid & antispasmodic, seems to be the weakest of the whole set, & justly omitted in the London set list; & tho' retained in Edinburgh, is not known in our practice. This plant has led the learned Professor Murray to give us a valuable compilation on the subject of morda; but this does not seem to me to belong to this place, as it seems to me to be a general & not a particular remedy. Cullen's Mat. Med.

Clap 19. Order 5-

Clap 2. Order 1.

*Uronia*. *U. Virginiana*. Ing. Culver. *Callistachia Virginiana*.

Gen. Desc. Calyx 4 parted: corol 4 cleft, lower division smaller. capsule 2 celled.

Ure. A decoction of the leaves & flowers of Culver is said to operate as a cathartic. It is used in the jaundice. S. W. W.

Clap 6. Order 3. See page 85.

*Simia Plantago*. Ing. Water Plantain, or Thrum. Wort.

From the Liverpool Advertiser of Feb. 23<sup>d</sup> 1818. Effectual cure for the hydrophobia.  
Of the long catalogue of those distempers with which it has pleased the Supreme Being to chasten or afflict humanity, the most violent, the most awful & deplorable, is Hydrophobia. This frightful malady, which bereaves of reason, distorts the frame, & humiliates the species by a change from human to brutal nature, whose paroxysms increasing with their succession in their tortures render the miserable being suffered too terrible for sight, almost too hideous for sympathy. This malady which hitherto no skill could control, no force restrain, no medicine relieve, at length yields to a simple of the vegetable world - a quick but effectual antidote, the complete & general discovery of which, Providence in its wisdom, has reserved for the present time.

The following communication on this important subject, is made by a Paris correspondent: - A Russian peasant of Simbira, on the Volga possessed a celebrity in the cure of this worst of all human distempers. From the state of Russian simplicity, & the tardiness of communication in that empire, owing to the fewness of the means, this celebrity was for a length of years, exclusively confined to the provinces in which he lived. He was not the discoverer of the root that cured, but he was the sole depository of the secret. The renown of his extraordinary cures bursting at length, beyond the circle of his government, their number increased with his practice, & his celebrity along with them. Travelling to a distant village on the borders of the Sasatornika, he tarried to overnight at an intervening hamlet, when a case of hydrophobia, in its awful stage overwhelmed the peasantry in grief. Unprepared for the event, shocked at the terrific spectacle before him the compassion & pangs of the afflicted being, he hesitated; it was only for a moment the conflict in his breast was only between humanity & interest. The feelings of

one however, soon overpowered all considerations of the other; he directed 165  
such to be made for the Thyma; he described it; it was known - it was sought  
for by all the inhabitants, each taking a different direction, & was immedi-  
ately procured. Here the secret was divulged - a preparation was made, & the  
antidote administered. On being intreated to tarry in the hamlet till morning,  
the peasant replied that his presence was no longer necessary - that the man  
was cured. Satisfied of the efficacy of the remedy, he resumed his habit, & taking  
his leave resumed his journey.

And the distempered man was cured. He felt a temporary exhaustion, but  
was at once freed from the torture of ~~the~~ the malady. The circumstance then  
related quickly transpired. Communications on the subject reached to Moscow.  
The physical world made enquiry & research. Throughout Prussia, all Germany,  
the reputed wonderful properties of the Thyma Plantago in the cure of Hy-  
drophobia induced experiments - successful experiments, they increased its fame,  
in those instances, is now established a perfect confidence in its unfeigned efficacy.

From the London Literary Gazette of Saturday week, we take the subjoined  
article on the same subject: - We must call the attention of the public & of the  
Academy to the Thyma Plantago, of which a drawing is annexed, & which is at  
present the subject of a general investigation upon the continent as a specific  
for the cure of Hydrophobia. Whether it possesses the qualities attributed to it in  
Prussia & Germany, or not, we have discharged our duty, in producing not only  
written description of it, & the assertion with regard to its healing powers,  
but also a picture of the plant itself, for which we are indebted to a correspondent,  
extracted from whose letter we subjoin.

To the Editor of the Literary Gazette. Sir, I send you for acceptance a drawing of the re-  
puted valuable plant, Thyma Plantago. It grows, I may venture to say, in most parts  
of Suffolk, certainly with us in great abundance, to the height of two feet above the  
surface of ponds & ditches, bearing white flowers inclining more or less to a purplish  
tint, from the middle of June to August. I have endeavoured to express the form  
of the seed vessel so that the plant may be known after the flower has ceased to ex-  
ist. I am acquainted with no species of Thyma that at all resembles this in habit,  
therefore it must be known at a glance. For specific orientation, you can refer  
to Dr. Smith's "Flora Britannica" or to "Withering's English Botany"; you will  
receive information from either. I am &c. Lovings Port.

166 Hydrophobia. Recent accounts from Russia & Germany state that the  
Alisma Plantago, or water plantain, is now in those countries regarded as an in-  
fallible cure for hydrophobia. An experiment recently made by M. de Saint Do,  
Chirurgien en Chef of Chevrolles (in the department of the Lower Loire,) to con-  
firm its virtues. About the 15<sup>th</sup> of last December, two young cows were bitten by  
a mad dog; one in particular was wounded in a severe way. The Alisma Plan-  
tago was immediately applied as a remedy. M. de Saint Do succeeded in ad-  
ministering to the cow which had been most severely bitten, a certain quantity  
of the dried root; the other, which could not be brought to swallow a very  
small dose, died of the hydrophobia a few days after. The former animal  
has not to this moment, manifested any symptoms of disease. — This experiment  
seems calculated to remove every doubt respecting the advantages arising from  
the use of the Alisma Plantago as a cure for hydrophobia among the human  
species. Montreal Herald.

great pain we think is due to one of our contemporaries for the zeal with which  
he has repeatedly introduced to the notice of the public the discovery made by a Rus-  
sian peasant of Simbirsk of a plant which is reputed to be a never failing cure  
for the bite of a rabid animal, or dog. This specific is the bulbous part of the  
plant called by botanists, Alisma Plantago or the green water plantain.  
By a gracious ordination of Providence the antidote never has been  
the poison & to add to ~~confirm~~ the value of the discovery this plant grows  
in every part of Europe. It vegetates in water marshes, lakes, & stagnant  
ponds, & is believed to be found in such situations in almost every district  
in Ireland. In England the season of flowering is in the month of July & August  
& September. It may be gathered any time but it is best when it is young.

In Germany as well as in Russia, the extraordinary properties of the  
Alisma in the cure of the hydrophobia, is said to have been established by the  
physical world; & we hope the physicians of our country will, without delay  
ascertain its qualities, & give it, if found efficacious, the sanction of their autho-  
rity. A Russian counsellor of state, Levshin has lately published a report  
upon the subject in which he bears ample testimony to its efficacy, & pre-  
scribes the method of administering it. The root, which when dried &



An onion must be used in a powder which  
 to be used on a piece of bread & butter & given to the patient is eat. Do not  
 doubt it is said have always been found sufficient to effect a cure, even after  
 hydrophobia is declared in the patient. What is it to be used in man or animal.  
 An article from St. Petersburg dated May 8<sup>th</sup> mentions an instance that  
 occurred in the territory of Cherson where a small dog bit four individuals &  
 seven animals. The extract is administered as an antidote. The St. Petersburg  
 gazette of the animals died, but none of the persons who were bitten were  
 afflicted with the slightest symptoms of madness. This, we think is a decisive & a  
 factory proof of the efficacy of the plant as a preventive the effect of the  
 antidote. Amphipol Amphipol Amphipol Amphipol Amphipol Amphipol Amphipol Amphipol  
 June 10<sup>th</sup> 1800. Vide plate on the other side of the leaf



*Hima Plantago*

great Water Plantain  
Rad. dog. plantain

Veronica V. Baccabunga Anagallis triquatica. vulg. Ang. Brooklime -

Lin. Desc. Bls. border four ch. t. lower segment narrowest. caps two celled

Spec. Desc. Leaves egg-shaped flat, covered with glands. Stem creeping. Blossom blue  
under lateral; germin sitting on a thick yellowish-green glandular substance. In shel-  
as streams, & near springs, that seldom freeze. The whole plant smooth & succulent.

Bl. June

Use. This plant was formerly esteemed as an external application to wounds & ulcers, &  
as used in many diseases. it is now valued only for its antiscorbutic virtues, as a mild refri-  
ant juice. it is superior in that disease which has been called the hot scurvy. To derive  
the advantage from it the juice ought to be used in large quantities or the fresh plant  
taken as food. Woodville the leaves are mild & succulent & are eaten in salads easily in  
England. Cows, goats, & horses eat it; it is refused by swine. Med. & Phys. Use.

Clas 3. Order 2

Porticum. P. Repens. Gramen caninum. Gramen dioscoridis. Ang. Doggrass couch.  
wasp squitch grass quitch grass couch wheat.

Lin. Desc. Calyx two-valved, solitary, mostly three. flowers. Short. Scutis.

Spec. Desc. Calyx four flowered oval shaped, tapering to a point; leaves flat. There  
are four varieties differing in the number of flowers of the calyx & awns. See Bot. Ar.

Use. The root is the grass-root used in medicine; it is diuretic & attenuant. Plin.  
Eightfoot! Boerhaave recommends the juice of these roots, drunk liberally in obstructions  
of the viscera, particularly in cases of schirous livers & jaundice. Cattle are frequently found  
have skin on their sides in the winter, & they are soon cured when taken out to grass  
in the spring. Dogs eat the leaves of this grass to excite vomiting. At Naples, the  
roots are collected in large quantities & sold in the market for the food of horses,  
they have a sweet taste, something approaching to that of liquorice; when dried &  
ground into meal they have been made into bread in years of scarcity. Wethering  
is a most troublesome weed in arable lands & can only be destroyed by fallow  
in a dry summer; but Mr. Pitt observes, that though this is the most common  
kind of squitch in gardens that which is chiefly prevalent in arable land consists of the  
kind of grasses, as the agrostis, the rolan, mollis & the avena elatior. Staff. Rep. Medical  
young leaves I have them when fully grown. Cows, sheep, & goats eat them. Use.

Clap 4. Ord. 1.

Dipsacus. D. Fullonum. Ang. Teasel. manumet teasel.  
 gen. Des. calyx common. many leaves; prosep superior; receptacle chaffy.  
~~Spec. Des. calyx common, sub simple, tapering to a point~~  
~~Spec. Des. leaves entire, serrate; chaff vent backwards; scales very hard.~~  
 Use. This plant is cultivated for the use of clothiers, who employ the head with crooked awns to raise the nap upon woolen cloths. For this purpose they are fixed round the circumference of a large broad wheel, which is made to turn round, & the cloth is held against them. The plant flowers in the month of July & June, & the heads are gathered in the last of October. The leaves of this plant are a good stomachic, but they are not much known as such. (Hill) -

Clap 4. Ord. 1.

Galium. G. Boreale. Ang. Cropwort madder. wool leaved goose grass  
 gen. Des. Blossom on petal bell shaped, short; seed. two, nearly globular, beneath.  
 Spec. Des. leaves four in a whorl, egg shape shaped, smooth, three ribbed; stem upright.  
 Blossoms numerous, beautifully white, but when dried turning to a dirty yellow. Blooms July, Aug.  
 Use. The roots afford a good red dye for woollen cloths. -

Clap 4. Ord. 1

Pantago. P. Major; P. Vulgaris. P. Latifolia. organs. Ang. Common great plantain.  
 gen. Des. Bloss. 4. alt. permanent, lobes broken back. cal. 4. cleft; stamens ten only  
 Use: caps 2 celled, cut round, inferior.  
 Spec. Des. leaves egg shaped, smooth with 4 or 5 ribs. stalk cylindrical nearly erect, 2 to 10 inches high. Spike thick with flowers, rather rough with short hairs. Prostratis. very common. Blooms July, Aug.

Use. This plant tho' omitted in the London is retained in the Edinburgh Pharmacopoeia, in which the leaves are mentioned as the pharmaceutical part of the plant. Their qualities are said to be refrigerant, attenuant, subtyptic, & diuretic. It was formerly reckoned amongst the most efficacious of diuretic herbs, & by the peasants the green leaves are now commonly applied to cuts & other fresh wounds, & cutaneous sores, sometimes made into an ointment. Inwardly they have been made use of in phthysical complaints, spitting of blood, & in various fluxes, both cholera & haemorrhagic. The seed, however, seem better adapted to relieve pain

on some trees than the leaves, as they are extremely mucilaginous. It  
has been recommended for the cure of tubercular intermittents; & from the  
experience of Bergius not undesireably. An ounce or two of the expressed juice  
of a strong decoction of plantain may be given for a dose; in a case  
where that quantity taken at the commencement of the fit - (Woodville)  
Plantain has been alleged to be a cure for the bite of a rattlesnake, prob-  
ably with little foundation. tho it is one of the principal ingredients in  
the remedy of the Negro Casars for which he was rewarded by the Assembly  
of S. Carolina. (American New. Ed. Dispens.) See my medical recipes Vol. 2<sup>nd</sup> page  
15 where will be found Casars' Recipe for the bite of Rattlesnakes - Sheep, goats, &  
cows eat it; horses & cows refuse it.

Clap 4. Ord. 1.

Cornus. C. Sanguinea. C. foemina. Ang. Dog-berry tree. Ground-tree. Ground-berry  
rickwood. Prick timber. Gotten tree. Female-bogwood. Female cornel. Red osier  
in. Dec. Smilacium generally 4 leaved; petals 4, superior; cloupa succulent, be-  
neath 2 celled, hard, solitary.  
Spec. Dec. Stem 4 or 5 feet high, dark brown. Branches straight; shoots; leaves  
egg-shaped, with strong nerves green on both sides; leaf of flowers flattened  
in divisions, then subdivided. flowers white. Ridges & wood. Blot. June.  
The berries of this tree have a styptic quality & are bitter to the taste. They  
are also to dye purple. The wood is white & very hard & smooth, fit for the  
shoes of the tinner. The leaves change to a blood-red in autumn. Horses, sheep  
& goats eat it; cows & swine refuse it.

Clap 4. Ord. 1.

Betula. B. Purpurea. B. Nana. Ang. Dwarf, birch tree.  
Spec. Dec. Male & female flowers separate on the same plant; calyx one leaf  
wide or five cleft. Blossom 4 div. male cal. 3 flowered. female cal. 2. flowered. Red 2 or 3.  
The leaves afford a fine yellow dye, than that of the Betula alba or common birch.  
A shrub supplies the Laplander in the summer when he lives in the mountains, with  
it for the fires which he is obliged constantly to keep in his hut to defend him  
from the gnats; & covered with the skins of rein-deer it forms his bed. (Linnæus)

6



*Orchis* *serotina*

Orchis - Aug. Orchis Spectabilis Clap 1. Order 1.

Gen. Desc. Calyx ringent like, the upper leaflets vaulted; lip dilated, spur long; anthers terminal adnate.

Spec. Desc.

Clap 3. Order 2

Festuca. F. Tritium. Aug. Sto fern grass.

Gen. Desc. Calyx two valved; spikelets oblong, roundish; husks tapering to a point terminating in an awn.

Spec. Desc. Panicle branched upright, very long, issuing from a long two edged sheath; spikelets nearly sitting cylindrical awnless; glumes awnless, mostly ten-nerved; straw striking root at the joints; leaves floating flat on the water.

In wet ditches & ponds, common. Bloss. June September

Use. The seeds though small are very sweet & nourishing. They are collected in many parts of Germany & Poland, & even brought to the tables of the great, under the name of mannas seeds, as an agreeable & nourishing food, & are esteemed a delicacy in soup & gruels, on account of their nutritious quality & grateful flavour. (Lightfoot Withing) When ground to meal they make bread very little inferior to that in common use, of wheat. The bran separated in preparing the meal is given to horses for the worms, but care should be taken that they are kept some water for some hours afterwards. Geese are very fond of the seed, & will know how to seek them (Withing) It is a good grass to sow in wet meadows, of a medicinal & nourishing quality, & cattle are extremely fond of it, so much so that horses & women will count great risks to get at it.

Clap 5. Order 1

Primula. P. acaulis. P. vulgaris. P. Sylvatica. Aug. Primrose

Gen. Desc. Bloss. tube cylindrical, smooth down, stem within the tube; caps. 5-celled cylindrical, many seeded, opening with ten teeth; summit a knob.





val quality. The officinal preparation of this is a simple decoction 175  
 and children answer the purpose of an agreeable purgative. The seeds are said  
 to be strongly diuretic, & useful in gravelly complaints, & the root, powdered  
 here of a Drachm proves both emetic & cathartic. (Wardley) Both the  
 seeds & roots are said to be mild laxatives. (Wardley) The flowers, & also the  
 leaves are cooling & emollient. (Lighthoot). The syrup of violets, which receives  
 colour from the petals, is very useful in chemical enquiries, to detect an acid  
 or alkali; the former changing the blue colour to a red, & the latter to a  
 green. For this purpose the violet is cultivated in large quantities about Strat-  
 ford upon Avon. Slips of white paper, stained with the juice of the petals, & kept  
 in the air & light answers the same purpose (Wardley). The Turks make  
 violet sugar of the flowers, & this dissolved in water constitutes their favourite  
 or called Sorbet. (Lighthoot)



*Viola tricolor*

Garden Violet  
Hart's case

*Viola tricolor*. Ang. Pennis. Heart-ease. <sup>set</sup> This is a wood-sage in many parts of the  
 gate. Call one to you. Herb. viridis. Most frequent garden weed.  
 Gen. as above.

*Desc.* With a stipular wing erect, terminating at the end. The leaflets, summit conical or  
 anchored, weak. Leaves egg-shaped, toothed. Several leaves two on each fruit stalk heart-shaped, entire.  
 half the size of the blossom. Summit open, hollow, tinged on the lower part. Blossom with  
 variety of colours, white, yellow, blue, purple, two or more of these. Corn fields, hedges, &c.  
 Blooms May, June, &c.  
 Frank says that the plant is called in the north 'heart-ease' in young children's  
 the seeds or half a dozen of the dried leaves in half a common

7:176 - morning for some weeks. *Med. Jour* vol. 2. p. 188.  
 By some of the old writers on *Materia Medica* the plant is represented as a power-  
 ful medicine in *epilepsy*, *asthma*, *ulcer*, *scabies* & *cutaneous* complaints; but by modern authors  
 it has been recommended chiefly as a remedy for the *crustacea* bacteria. In addition to the  
 use now mentioned bread with this decoction is also to be formed into a poultice & applied to  
 the part. By this treatment it has been observed that the eruption during the first eight  
 days, increases, & that the urine, when the medicine succeeds has an odour similar  
 to that of cats; but on continuing the use of the plant a sufficient time, this smell goes  
 off, the scabs disappear, & the skin recovers its natural purity. Haase administered the  
 decoction in various forms & in large doses, extending its use to many chronic diseases, & from the num-  
 ber of instances of its use, it seems well deserving of future trial. (Woodville)



*Viola pubescens.*  
 yellow wood violet



*Viola cucullata.*  
 common blue violet  
 meadow or heart violet

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Ribes Rubrum. Aug. Currant. <sup>Clap 5. 5. 5.</sup> Red Currant.

Des. Petals five they and the stamens fixed to the calyx. It is cloven. Berry beneath  
cells, many seeded.

Des. Without prickles. Bunches smooth, pendant; flowers flattish; leaves regm. round  
h. cal. spreading. Blof. greenish-white. Berries red, sometimes white. In wood in the northern  
counties banks of the Tus. Blof. May.

Use. The fruit of this plant is universally acceptable, either as nature presents it, or va-  
riously prepared by art, with the addition of sugar. Its medicinal qualities are similar to  
one of other subacid fruits which are esteemed to be moderately refrigerant, antiseptic, it-  
erant, & aperient. Hoffman & Boerhaave had great confidence in the efficacy of  
one fruit in obstinate visceral obstructions. They may be used with advantage to  
relieve thirst in most febrile complaints; to lessen an increased secretion of bile; & to  
correct a putrid & scorbutic state of the fluids, especially in sanguine constitutions; in  
case of a contrary kind they are apt to occasion flatulency & indigestion. The juice of the  
Red Currant is a most agreeable acid in punch; & at Paris mixed with sugar, it is a com-  
mon beverage, generally prepared to orange or lemonade (Woodville). Red currants make  
excellent wine, prepared in the following. To every quart of currant juice, add three  
arts of water, & three pounds of sugar. Let it stand a year before broaching. —  
As sheep & goats eat the leaves, rovers are not fond of them (Linn).

Ribes Rubrum Nigrum. Aug. Black currant. <sup>Quinque series.</sup>

Des. As above.  
Des. Bunches hairy. Flowers oblong, woolly; floral leaves woolly as long as the little  
joint stalks. Berries glandular. Cal. 4. n. of a rich brown colour. Petals, or sometimes  
range into stamens. Wet hedges, river banks. May.

Use. The berries have a very peculiar flavour which many people dislike, but together  
with the properties which they possess in common with other subacid fruits, they are be-  
lieved to be useful in sore throats especially those of the inflammatory kind. For this pur-  
pose the juice is boiled down to an extract, with the addition of a small quantity of  
sugar. There is little doubt that, in cases of inflammatory angina, they may be  
employed, possibly and to answer the same intention as gargles. They are said to pos-  
sess a diuretic power also to a considerable degree, but this seems to want confirmation.  
The common black currant jelly in domestic use for the cure of sore throats, it may  
be said, loses much of its efficacy by having too great a lodgement of sugar in it,  
dilatation. These berries by some people are put into brandy, for the same purpose as  
black cherries, & more commonly in Ireland into whiskey. The slender leaves are common

100 common fruit to resemble brandy. The leaves are said to be in infusion  
to have a taste of green tea, & when young, are thus to some peculiarly agreeable. There  
never we examine the report, & have likewise been recommended for this medicinal  
virtue which Bergius states to be mundificans, pulcherrimum, diureticum. An infusion of  
the young roots is useful in fevers of the eruptive kind, & in the dysenteric fever  
of young cattle. Kaller says, that of this fruit a wine may be made equal to any  
produced from the grape. Wood's Art, Hall's Diet, & Horn eat the leaves

Clas 5. Order 2.

Triplex. A. Martata. Aug. Wild orache. Fat her. Samoy water  
Gen. Desc. Blof. O. Flowers, some hermaphrodite some female, on the same plant; her-  
maphrodite cal. five leaved. ead. oblong, upright. Female cal. two leaved. seeds compressed  
Spec. Desc. Stems herbaceous upright or trailing. angular, furrowed. Calyx valve of the  
female flower large, bowl shaped, indented. Leaves, broad or heart shaped, indented,  
indented or entire. Varies much. Publik Amphilly. Blof. Aug. Sept.

Clas 5. Ord 2

Humulus. H. Lupulus. Lupulus mas & femina. Aug. Hop.  
Gen. Desc. Male & female flowers on different plants. Blof. O; male cal. five leaved  
female cal. one leaved, with a wanting opening, entire. seed one, with a leaf like calyx.  
Spec. Desc. Stems climbing. Leaves lobed serrated flowers greenish yellow. In hedges  
Blof. July.

Use. The flowers of the female plant are the common hops used in brewing ale or  
beer. They grow wild in the hedges, but the value of the female flower renders it wor-  
thy of being carefully cultivated. Soil & cultivation occasion some varieties, but for  
the purpose of brewing they are commonly distinguished by the name of the Kentish or  
Worcestershire hop. Wayards might be preserved from the honey dew which is the  
excrement of a species of aphid & from the other moth, by being covered with stones.  
The assertion is not correct that the honey dew is the excrement of the aphid. It is  
the excretion of wax, sugar &c. &c. from the leaves of plants. P. M. W. A decoction  
of the young shoots is esteemed a powerful antispasmodic. Lightfoot - A bag of hops  
placed under the pillow is an excellent soporific. Dr. Addison, - A decoction  
of the roots or from twenty to thirty grains of the extract is said to be a specific  
to answer the purpose of sarsaparilla. The young shoots boiled & eaten as a pottage  
early in spring are esteemed a delicacy; they are sold under the name of hop tops



102 or crayer oil, & does not destroy the grass under it. If grafted on the *U. glabra* it will throw out suckers, with which it is apt to overrun the ground. Horses, cows, goats, sheep & swine are fond of the leaves. (With p.) & the tender leaves are devoured with avidity by milk worms. Fr. Soc. Arts ii. 157

*Ulmus. U. glabra. Frax. Slippery elm. Red elm*

Gen. Desc. as above.  
Frax. Desc. Branches scabrous, whitish: leaves ovate-oblong, acuminate, nearly equal at the base, unequally serrate, pubescent both sides, very scabrous. Under tomentose with very dense yellow wool: flowers sessile. May always be known by chewing the bark, which is very mucilaginous. All places. flou. April. Perennial.

Use. The seed of *Slippery elm*, on account of its many valuable properties deserves particular mention. It rises to the height of thirty feet with a pretty strong trunk, divided into many branches & covered with a light coloured rough bark. The leaves are oblong, oval & sharp pointed, unequally serrated on their edges, unequal at the base, very rough on their upper surface, & hairy underneath. The flowers are produced thick upon the branches upon short collected foot stalks, & are surrounded by oval compressed, membranaceous seed vessels, with entire margins, containing one oval, compressed seed. The inner bark by infusion, or gently boiling in water, affords a great quantity of insipid mucous substance, that is applicable to a variety of important uses. Dr. Mitchell says it has been beneficially administered in catarrhs, hemorrhies, & quinies; it has been applied as a poultice to tumors, & as a liniment to chaps & lacerations. Amer. Mus. vol. 7.

The success of our revolutionary army, & also those of General Wayne's army, who defeated the Indians in the year 1794, experienced the most happy effects from the application of portions of the elm bark to gunshot wounds, which were soon brought to a good suppuration, & to a disposition to heal. It was applied as the first remedy, when the tendency to mortification was evident, this bark bruised & boiled in water produced the most surprising good effects. After repeated comparative experiments, it has been found that applications as milk & bread & butter poultices, its superiority was firmly established, in old & conditioned ulcers, & in fresh burns, equal benefit, or even more from it. The infusion of the bark was used with advantage as a cure in influenza & catarrhs, also in diarrhoea & dysentery. Many of the above facts are communicated relative to the virtues of the red elm & its medicinal qualities say the editor of the Domestic Magazine by Dr. Joseph Storr of Philadelphia as shown in the western army; & adds as a proof of the merit of it

... that a soldier who lost his way ... upon the ... 189 ... The editor of the above mentioned work ... proceeds to observe ... the red elm tree may be considered as a highly valuable addition to our ... medicinal exclusively American, & ought to be carefully searched for by the ... medical gentlemen in the country, & preserved from the indiscriminate use.

The inner bark of the slippery elm, or its mucilage has been found by recent ex-  
perience to be singularly beneficial when applied to chancres, cutaneous eruptions,  
& various kinds of sores & ulcers; & there is much reason to believe, that its in-  
ternal use in dysentery, consumption &c. may be attended with greater advantage  
than is generally imagined. This tree certainly may be recommended to the partic-  
ular regard of medical practitioners, as a new & domestic article of our Materia  
Medica, whose medicinal virtues will probably be found to merit a large share  
of confidence. Machus.

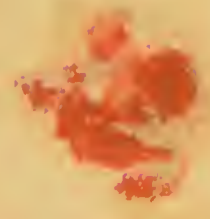
Clas. 5. Order 2.

Carota. D. Carolae. D. Sylvestris. D. Vulgaris. D. Polygamus. Ang. Carot. Ind. Carot.

Desc. Bloss. somewhat radiated. Stems hemisph. caps of the involucre divided; seeds  
in membranaceous toothed ridges.

Desc. Angles of seeds 4. distant, tripart. leaf stalks fibrous underneath, umbel com.  
when in seed. Flowers white or reddish. Meadows pastures, & cultivated in gardens. Boerh.  
There are several varieties of this species. see Bot. arrangement.

The seed have a light aromatic smell, & a warm acrid taste, they possess the note  
in a considerable degree the aromatic qualities common to those of most of the um-  
biflorous plants & since they have long been deemed carminative & emmenagogue but  
are chiefly esteemed for their diuretic power & for their utility in calculous & nephritic  
complaints; in which an infusion of their roots full of the seed in <sup>spring</sup> boiling water  
been recommended; or the seeds may be fermented in malt liquor, which receives  
there an agreeable flavour, resembling that of lemon peel. Carrots have been  
used to children as a vermifuge. The expressed juice, or a decoction of the roots, has  
been recommended in calculous complaints, & as a gargle for infants in aphthous affection  
& excoriations of the mouth; & a poultice of cracked carrots has been found useful, applied  
to hepatic ulcers, & to carcinous & fulvous sores, as well in mitigating the pain  
& beting the smell. This plant in its cultivated state is the well known garden carrot  
& as it possesses a large proportion of saccharine matter, affords consequently much  
nourishment, but it is found to be difficult of digestion. Waller An infusion of the seed in a hot  
water has been found to give immediate relief in the fits of the gravel. L. W. The roots are a nutritious  
kind of callus & worthy of attention, but if given too long they are apt to occasion bloody urine.





iris versicolor. - The common Blue flag or flower de lune is found in  
the meadows, from Maine to Carolina is the iris versicolor of DeCenies & Muhlber  
& the iris virginica of Michaux. The root of this plant possesses active medic-  
al powers. It is considerably used in the southern part of the United States. The pain-  
t of the plant on the opposite page was executed by Mrs. Harriet G. Williams, from a  
drawing in Dr. Bigelow's Medical Botany. For an account of the uses of this plant see  
page 90 of this vol.

Class 5. Order 2.

Tracheum. H. Lanatum. H. Spondylium. Ang. Cow. parmp. Madrip. Hogweed. Par.  
Hogweed.

Fls. Involucres budding. Sep. irregular. Petal. bent inward notched. Seed compressed  
like, smooth enclosed by a membranaceous border.

Stem. Leaflets wing. cleft even. Flowers radiated. Leaf stalk at the base like  
a scud. membranaceous woolly at the edges. Stem leaves winged hairy: leaflets three  
or jagged, indented; odd one three cleft. Outer florets radiated, the central ones  
equal. Flowers white. Seeds with three ridges on each side. Hedges meadow, pasture, July

Use. In Poland & Lithuania the poor prepare a liquor from the leaves & seed of  
plant, which, after undergoing a fermentation, is used as a beverage like  
the stalks, pulsed, are eaten by the Kamshatdals. The Russians prepare from  
plant, an eatable which they esteem a great delicacy; they pick off the leaf-  
lets of the root leaves, put them & hang them in the sun to dry a little. They  
tie them up in little bundles, & hang them up again till they become yellow.  
At this state they are put into bags, & a mealy substance, like sugar forms upon  
surface of them; this is carefully shaken off, & served as a treat to the guests.  
Whom visit an ardent spirit from it. Smelin The pulps of the  
stalk are acid. The leaves are a favourite food of rabbits, hogs, & asses: cows goats &  
sheep eat them. With The plant has been found useful in Chelmsky. H. B.

Class 5. Order 2.

Spice. H. Iniquita. Ang. Wild Spice.  
generic & spec. Dr. Ser Eaton Manual of Botany.  
It is a warm acid bitter & aromatic, possessing all the qualities of that cal.  
It is in our gardens. But as the latter possesses them in a higher degree this has been long  
stud. cows goats & sheep eat it. Flowers as per it.

... a cetera of anisee has made it an object of cultivation to the  
 gardeners for more than two centuries. The stalks leaves, seed, but more particu-  
 larly the root have a fragrant agreeable smell, & a bitterish pungent taste: on  
 being chewed they are at first sweet, afterwards, acrid & leave a glowing heat in the  
 mouth. The fresh root wounded early in the spring yields from the inner part  
 the best of anunctious yellowish odorous juice, which gently exsiccated retains  
 its fragrance, & forms an elegant aromatic gummy resin. Luini, Linnaeus says  
 the Schickanus entertain a very high opinion of the utility of this plant, as  
 for a medicine, which is natural, as few aromatic plants inhabit the polar  
 regions. Bergius thus enumerates its virtues: Stomachica, Indolifera,  
Carminativa. & it has been recommended in several diseases; yet though it must  
 be allowed to possess aromatic, & what are called carminative powers it is in these  
 qualities surpassed by other simples, & therefore seldom employed in the present  
 practice. Waller It is commonly used for a confection in sweetmeats; & em-  
 ployed in some distilled waters.

Clap 5. Order 2.

Trifolium S. Linnæi. Trifolium. Ang. Creeping water parsnip, or sweet.  
Use. The efficacy of this plant was first stated by Dr. Withering: "A young lady, 20  
 years old was cured of an obstinate cutaneous disease by taking three large spoon full  
 of the juice twice a day." Dr. W. has repeatedly given to adults three or four ounces  
 morning in similar complaints with the greatest advantage: it is not nauseous, &  
 children take it readily if mixed with milk. In the case given by him  
 it affected not either the head or stomach, or the bowels. Waller It has lately been ad-  
 vanced into the Nat. Med. of the London college, in the character of an antiscorbutic,  
 rather as a corrector of stercoraceous humors, especially when manifested by cutaneous  
 eruptions & tumours in the lymphatic system on the testimony of Bevil & Ray & Waller

Clap 5. Order 2.

Coriandrum. C. Sativum. C. Majus. C. Vulgare. Ang. Common Coriander.  
Use. The leaves & every part of the plant, when fresh have a very offensive odour, but  
 when being dried, the seed have a pleasantly grateful smell, & their taste is  
 moderately warm & slightly pungent. These seed, it is asserted by Dioscorides  
 taken in any considerable quantity, produce delirious effects, & in some parts of  
Spain & of Egypt, where the fresh herb is eaten as a cordial, instances of fatuity,  
 & an obstruction occur very frequently (Stoffman), but these properties seem to have been

is justly ascribed to the coriander; & Dr. Withering says, that though in 1817  
it has been considered as suspicious, if not delirious, he has known six drachms  
be taken at once without any remarkable effect. These seeds, like those of most  
the umbelliferous plants, possess a stomachic & carminative power; but they  
are principally of use, according to Dr. Cullen, in correcting the bitter influ-  
ence & the prostrations of senna, nothing so powerfully covering its disagree-  
able odour & taste & being equally efficacious in obviating the griping that  
senna is very ready to produce. The seeds are counteracted with opium are sold by con-  
fectioners, under the name of coriander confets.

### Clas. 5. Ord. 2.

*Chaerophyllum*. *C. Claytoni*. *C. Sylvesteri*. *Myrrhis*. *Asop.* Wild Cicely. Cow weed.  
w. *Gravelly*. Cow weed herb. Poison cicely. Blsp. May, June.  
In some parts of the Kingdom, in times of scarcity, this plant is eaten as a pot  
herb. (Curtis) The roots have sometimes been eaten as haresnets, but they have been  
found poisonous. The umbels afford an indifferant yellow dye; the leaves & stem a  
beautiful green. Its presence indicates a fruitful soil. Neither horses, sheep, goat,  
swine, are fond of it; rabbits eat it greedily; & cows are very fond of it, so much  
that when, as often happens about Dudley, a pasture is overrun with it, cows are  
led to eat it up. (Withg.)

### Clas. 5. Ord. 2.

*Heratovis*. *I. Ostrorhizum*. *Antiantia vulgaris*. *Napitiantia*. *Asop.* Common  
waterwort. Blsp. June.  
The root has a fragrant smell & a bitterish pungent taste, leaving for some time  
a warmth in the mouth. This plant was formerly as its name imports, thought  
of singular efficacy, & was preferred to most of the other aromatics for its alexi-  
sarcic & sudorific powers. In some diseases it was employed with so much success  
it was distinguished by the name "divinum remedium" (Boerhaave). At present, how-  
ever, this root being considered merely as an aromatic is superseded by many of that  
of superior character. Half a drachm of the root in substance, & one drachm  
in infusion, is the dose directed. Woodw. The root is warm & aromatic. It is  
a diuretic, & a vesicatory recommended in dropsies, & leucorrhoea of the  
womb. An infusion of it in wine is said to have cured a patient who had  
been afflicted with a stone.

180 the back. (B. & C. have been shown it excites a copious flow of saliva ex-  
citing a warm & not disagreeable sensation to the gums, & frequently curies the  
rheumatic toothache with it. It should be dry up in winter, & a strong infusion  
made in wine or spirit.

Clap 5. Ord 2.

Castanea. P. Sativa. Fr. Wild Chestnut. The garden, hawthorn is a variety, attended  
only in culture. Blof. June July.

Use. The roots of this plant are sweeter than a root, & when when imbrowed by  
garden muck, are an excellent vegetable in the table, & much used by those who  
obtain from animal food in Lent. They are highly nutritious. In the north of Ire-  
land they are brewed instead of malt, with hops & fermented with yeast; the liquor  
thus obtained is agreeable. The seed contain an essential oil, & will often cure  
intermittent fevers. Hops are found on the roots, & quickly grow, fast upon them (W. & H.)

Clap 5. Ord 2.

Smyrniacum. S. Averrum. S. Olusatrum. S. Hirsutinum. Ag. Alexandris.  
Common Alexandris. Blof. May. June.

Use. Alexandris was formerly cultivated in our gardens, but it is now better supplied  
with celery, & consequently neglected. It is boiled & greedily eaten by sailors, who happen  
on this station from long voyages to land on the southwest corner of the Isle of Angle-  
sea, where it grows in profusion. (Pennant)

Clap 5. Ord 2.

Anethum S. Foeniculum. Foeniculum. Anis. Fennel. Fennel Seed. Dill.  
Blof. July. Fr.

Use. This plant was highly esteemed by the ancients for promoting the secretion of  
milk, an opinion which the experience of some modern authors has tended to con-  
firm. The seed, though termed one of the greater hot seeds, & supposed to be stomachic  
& carminative, are inferior in their effects to those of dill, anise & caraway. The  
seed used in medicine are usually imported from more southern countries; they  
give out their virtues very imperfectly in infusion, but by evaporation plentifully  
they are bound with an essential oil which is carminative, diuretic, but not  
rectifying (W. & H.). The root Aston says, may be called alimantum medicamentum  
& it was thought by Bergius to possess all the virtues of ginseng, but it is now  
wholly gone and as a medicine; to the taste it is sweet, with very little  
aromatic warmth, & it is said to be pectoral & diuretic. A simple decoction

also is directed to be prepared from the ... (Woodville) in 189  
was boiled and used in ... at kinds of ... fish & they are eaten  
with pickled fish. The tender buds are used in salad. In Italy the  
stalks are blanched & winter salad. (With)

Clap 5. Order 2

Cuminum C. Cuminum portense. Cuminum. Aug. Caraway. B. of. May, June  
The seeds are well known to have a pleasant strong smell, & a warm aromatic taste, & are on  
account used for various economical purposes. They are esteemed to be carminative, & stomachic.  
They are recommended in dyspepsia, flatulencies, & other symptoms of the  
gastrointestinal complaints; they are likewise reported to be diuretic, & to promote the  
secretion of milk; they are frequently employed than formerly. (Woodville) The seeds  
are used in cakes, & often put into bread, especially at Christmas time. In sweetmeats with  
sugar they are sold by confectioners; & they are often distilled along with other aromatics  
for the sake of the flavour & heat which they impart. These seeds were formerly  
recommended by Dioscorides to pale faced girls, & in more modern days, this  
is in those cases is not forgotten. They are no despicable remedy in tertian agues.  
Linnaeus says, that the roots of this plant when young are a better emollient than  
the seeds. The tender leaves may be boiled with pot. herbs. Sheep, goats, & swine  
eat it: horses & goats are not fond of it. (With)

Clap 5. Order 2

Petroselinum P. graveolens. P. palustre. P. peruvianum. Aug. Smallage. Parsley.  
The root in its wild state, when it grows near water, is fetid, acid & noxious,  
but when cultivated in dry ground, it loses these qualities. The root with the lower  
part of the leaf stalk & stem, blanched by being covered with earth are eaten raw,  
dressed in soup, or stewed. In this state of cultivation in the garden it is known by  
various names. It is said to be useful to those subject to nervous complaints.  
It is certainly a good antiscorbatic. The seed yield an essential oil. Sheep &  
goats eat it: cows are not fond of it, horses refuse it. (With)

Petroselinum P. Petroselinum. P. hortense. P. pativum. Aug. Common Parsley. Garden  
Parsley. Nov. June, July  
This plant is a native of Persia, but it has been so long cultivated in our gardens

190. *Sium* - in our country is more common than in any other part of our indigenous plants. Both the roots & seed are directed by the London College as medicinal; the former have a sweetish taste, accompanied with a slight warmth or flavour, somewhat like that of a carrot: they are said to be aperients & diuretic & have been employed in apoplexies to relieve obstructive pains & obstructions of urine. The seed are in taste warmer & more aromatic than any other part of the plant & also manifest a considerable bitterness: like those of many other umbelliferous plants they possess a share of aromatic & carminative power, but this being but inconsiderable they are now but seldom employed. They have been used externally with advantage for destroying cutaneous insects in children. The dried leaves have been successively employed as a discutient & cathartic in various kinds of tumours, & it is said by Lang that this application has succeeded in various tumours where cicuta & mercury had failed. The harshness is common in a table, it is remarkable that facts have been adduced that in some constitutions it occasions epistaxis, or at least in those subject to them, aggravates the fits: It has been supposed also to produce inflammation in the eyes. (Woodville)

Clap. 5. Col. 3.

*Sium*. *S. Canadensis*. Aug. Tang. in legs. Hobbs Bush. Mayfair. Tree. Plant medicinal. Prop. May.

Use. The berries are drying & astringent. The bark of the root is employed for the preparation of bird-lime. (Withering)

*Sium*. *S. Canadensis*. *S. Nigra*. *S. Vulgaris*. *S. Arborescens*. Aug. Blackberry Elder. Elder. Common black elder. Blot. Apr. May. N.B. Parley said elder is only a variety of this species.

Use. The whole plant has an unpleasant narcotic smell, & some authors have represented it as unsafe to sleep under the shade of elder. The inner bark, flowers, & seed are the parts used in medicine, & admitted into the pharmacopias: the former is strongly cathartic, & on this account was much used by Sydenham & Boerhaave who have recommended it as an effectual hydropic. Sydenham directs three handful of it to be boiled in a quart of milk & water, till only a pint remains of which one half is to be taken night & morning, & repeated for several days: it operates upwards & downwards, & on the evacuations produced, its efficacy depends. Boerhaave gave the expressed juice in doses from a drachm to a scruple.

small clove, it is said to be an useful aperient & detergent in various  
 disorders. The flowers have an agreeable flavour, in infusion, when fresh they are  
 the active when dry they promote particularly cuticular excretion & are service-  
 able in coagulaton & constrictive disorders. Externally they are used in fomentations, &  
 the form of an ointment. The berries in taste are sweetish, & on expression yield  
 some purple juice which is a useful aperient & resolvent in recent colds & sundry  
 venereal disorders gently loosening the belly & promoting urine & perspiration. (Will  
 Lewis M. M.) This juice made into a rob is a safe & useful aperient. Liptfoot  
 is more green bark which is an acid purgative is in small clove chivetic & has  
 an eminent service in glandular obstructions & dropsies; if steep which have the  
 it be placed in a situation where they can get at the bark & the young shoots  
 they will quickly cure themselves. The flowers like the bark are purgative but more nau-  
 sious. They are an ingredient in several cooling ointments. A decoction of the flowers taken  
 internally is said to promote expectoration in pleurisy; externally they are used in fomen-  
 tions to ease pain & abate inflammation; they are used frequently to give a flavour  
 vinegar. The inner bark is an ingredient in the black dye. The berries are poisonous to  
 sheep, & the flowers to turkeys & pea-fowl. If turnips, cabbages, corn or fruit trees are  
 subject to blight from a variety of ~~cann~~ insects, be whopped with the green leaves  
 branches & stalks, the insects will not attack them. With: the Phil. Tr. v. 62. p. 34 p. 1  
 green bourses are sometimes applied outwardly in a cataplasm, in erythelae  
 curing, & are said to be very relaxing. Liptfoot The wood is hard, tough & yell.  
 It is commonly made into shavers for butchers, tops for amplifying rods, & sundry  
 weaving outs: it answers well for turning in the lathe. The girth being exceedingly  
 it is cut into balls used in electrical experiments. With: the sheep eat horse corn  
 etc. or fuse it. Linn. Other say cows are fond of it.

Clap 5. order 5

as. a. Urticaria L. Horvenne L. Sativum Ang. Flax. Prop. July  
 This valuable plant came originally from those parts of Egypt that are expo-  
 sed to the inundations of the Nile; & it is said there to rise with a strong stem to the height  
 of six feet; but it is now a native of Britain, & its utility in arts, manufactures &  
 have rendered the cultivation of it an object of particular encouragement.  
 seeds have an acrimonious mucilaginous smell, & yield, by expression only, a  
 quantity of oil, which when carefully drawn without the application of

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heat ~~which~~ has no particular taste or flavour, & is an excellent pectoral. Boiled  
in water they afford a large proportion of stony flavoured mucilage; infusions  
& decoctions of them, like other vegetable mucilages, are used as emollients or demulcents  
in hoarseness, coughs, & pleuritic symptoms, which frequently prevail in catarrh-  
al complaints: they are also recommended in nephritic pain & stranguria: for these  
purposes a spoonful of the seeds uncrushed is said to be sufficient for a quart of water.  
The seed we use much used externally in emollient & maturing cataplasms, &  
make an easy & useful poultice in cases of external inflammation. The expressed  
oil is supposed to be of a more healing & balsamic nature than other oils of this  
class; & has therefore been very generally employed in pulmonary complaints,  
also in colic & constipation of the bowels: in some of its properties it differs con-  
siderably from most other oils of this kind; not congealing in winter, nor form-  
ing a solid soap with alkaline salts; & acting more powerfully than any other  
as a menstruum on sulphurous bodies. When heat is applied during the expres-  
sion it gets a yellowish colour & peculiar smell. & in this state it is used by pain-  
tes & varnishes. Lined appears to afford but little nourishment & when taken  
as food has been found to enbane the stomach & produce distention; these effects  
are noticed by Galen, & have since been confirmed by the experience of <sup>Dr</sup> Raynaud  
during a season of scarcity in Zealand, where boiled lined was used as food, & occasioned  
a remarkable distention of the hypochondria, swelling of the face, & other parts  
which in some instances proved fatal. But the gummy part which remains  
after the oil is expressed, called oil cake is given to oxen with advantage & the  
iron pattern upon it. The longitudinal fibres of the bark, separated by macer-  
ation in water from the glutinous matter which connects them together, dried  
beaten & combed, are spun & manufactured into linen: of this linen when  
worn to rag is made paper. The water in which flax has been macerated  
is poisonous to cattle, & therefore the practice of steeping it in any stream  
of running water or common pond is prohibited by statute. See 33 Geo.  
3. chap. 17. - Woodville. Wiltshire.



*Sim. A. sativum. Ind. Garlic.*

The plant is common in our gardens, which is a native of India, is used in medicine, it is an expectorant in vitious asthma, &c. as a diuretic & a purgative in preventing the hæmorrhages & intermittents & even mela-  
the plague: as an antihelmintic, a powerful litronotic, & an antiscorbutic.  
has been applied extensively to tumours & cancerous diseases & has been used success-  
fully in certain cases of leprosy. Woodville. See Hoffman's Syllabus &c. &c.

Class 6. Order 1.

*onitropidium. C. luteum. Beibos glutinos. Ang. Yellow Betelium Star. Star of  
Ethiopia. Blof. Thist. Moist places sandy; wet woods.*

The bulbous roots of the whole genus are nutritious & wholesome, & those of this  
species have been employed for food in times of scarcity of provisions - Horses, sheep  
eat it; swine are not fond of it: cows refuse it. (Withing.)

Class 6. Order 1.

*onitropidium. C. Majalis. Ang. Lily of the valley. May Lily. Lily Solomons root  
vires red. Wood heath. B. May.*

The flowers, tho' highly fragrant, have when dried a narcotic scent. Reduced to  
ashes they exalt sweating. An extract prepared from the flowers or from the roots  
takes of the bitterness, as well as of the purgative properties of aloes: The dose  
is from twenty to thirty grains. - By the assistance of lime a beautiful & durable  
purple colour may be prepared from the leaves. Sheep & goats eat it; swine, cows  
swine refuse it. (Withing.)

Class 6. Order 1.

*onitropidium. C. Multiflora. Ang. Giant Solomons root. Common Solomons root. Be.  
Black. Wood. B. May.*

The roots of this species have been employed for making bread, & its young  
tubers are eaten by the Indians as a vegetable. In this species the root used in medicine  
is generally referred to with in the Materia Medica. (Withing.) The root prepared  
the following manner is very efficacious in the piles. Take one pound of the green  
roots, or one pound of a pound of the dried. Boil in two hnts of water to one; add strain  
one pint of the liquor. Take two Teaspoonful of the Syrup three a day -

Clap C. Orders!

Stems. A. curamum. Ang. Myrtle leaf. Sweet smelling, like or curamum. The myrtle leaf grass. Banks of rivers with a sandy bottom. Stagnant waters M. Bay, Jamaica. Use. This root in its dried state has a moderately strong aromatic smell, & a warm pungent bitterish taste. It is found to extract the bitter, & rectified spirit the aromatic matter. Though not rating like spices, this root, manifesting to the taste considerable pungency & a moderate trace of bitterness, has been therefore deemed a good a. a warm tonic, & was formerly much used here in combination with the more simple bitters, which by this addition, were rendered more grateful & camminative. It has been recommended in vertigo proceeding from a vitiated stomach & in intermittent fevers, which are said to have been cured by this root, after the bark had failed. It is said to be efficacious in scorbutic & haemorrhagic complaints; but to this little credit will be given, & still left to its supposed alkaline tonic power. (Woodville). This plant grows wild in moist places in Japan, where it was considered, on account of its strong aromatic taste, to be a medicine of great power; but they do not know where its true & proper use is. (Mr. Throck). It is the only truly aromatic plant which is a native of a northern climate (Linn). The root would in might supply the place of foreign spices; it has cured agues when the Peruvian bark has failed; The flavour of the root is greatly improved by drying. The root is commonly imported from the Levant, but those of our own growth are fully as good. The Turks candy the roots, & think they are a preservative against contagion. Neither horses, cows, goats, sheep nor swine will eat it. (With)

Clap C. Orders

Berberis. B. vulgaris. B. Dumetorum. Ang. Barbary. Pippewidge bush. B. Bay. Use. The berries which are greatly acid & greatly astringent, are said to be of great use in bilious fluxes & in all cases where heat, acrimony & putridity of the humours prevail. The Egyptians are said to employ them in tertiential fevers & fluxes with great success. J. Pauli relates that he was cured of a obnoxious fever, accompanied with a bilious diarrhoea by using these berries conformably to the Egyptian practice viz. macerating the fruit for a day & night in twelve times its quantity of water with the addition of a little fennel seed. The liquor strained & sweetened, was used as a common drink. These berries do not seem, however, to possess any peculiar advantages over other acid fruits. (Woodville). The inner bark steeped in white wine

... has often been found serviceable in the jaundice. The fruit 195  
... good to quench thirst in fevers, for which it is generally made into a  
... infusion of the bark in white wine is purgative. The leaves  
... acid. The flowers though offensive to the smell when near, afford, at a  
... an odour extremely fine. The berries are so acid that birds will  
... eat them, but avoid with care. They form a most agreeable rob or jelly; they are  
... in wine and as a dry one in meat & in sugar plumbs. The roots boiled in wine, dye cool  
... in Poland, with the bark of the root, leather is dyed of a most beautiful yellow  
... the inner bark of the stems, with the assistance of album. Dyes linen a fine  
... blue. This shrub should never be admitted to grow in corn lands, for the ease of  
... heat that grows near it never fills, & its influence in this respect has been  
... to extend as far as three hundred or four hundred yards across the fields.  
... this, though denied by Mr. Brownsonet. (see Eng. Bot. p. 44) Dr. Withering has  
... affirmed the truth (With.)

*Hydrophyllum*. *Capitulum squarrosum*. R. Aquaticum. Ang. Water  
... hollow water. N. July. August.

The root, which is the part directed for medicinal use has a strong astringent  
... a black colour to a solution of ferrous vitriol, it is strongly  
... and has been much employed both externally & internally for the cure of  
... especially when the humors are spongy & frequent. It is likewise recommended  
... also in various other cutaneous dislocations, & in various  
... The leaves which manifest considerable acidity, are said to possess a  
... & have been used to obviate costiveness. Many of this genus  
... formerly official herbs, but this species has been esteemed the most effe-  
... is still retained in the Materia Medica by the Edinburgh college, tho'  
... great virtues ascribed to it are now held in doubt. (Worth) This is a medicinal  
... efficacy, both externally applied as a wash for putrid sores  
... & internally for some species of swarm. In rheumatic pains & chron-  
... diseases, owing to obstructed viscera it is said to be useful. The root has some  
... reddish tinge, but soon changes to yellowish brown on being exposed to the air.  
... powder root is one of the best things for a dentifrice that can be used. Murray

acuminum. P. His-idea. Ang. cap. D. Alex.  
The whole berries. Bilberry. Dry heath, wood  
mountain tops. Bl. Bush. Spain

Use. The berries of this species are acid & not very grateful, but they are eaten by  
the inhabitants of a island & by the country people, & they are sent in large  
quantities from St. Botolph to Stockholm for the cure of the kidney. (Linn.)  
They are also made into tarts, rob. jelly etc. Goats eat the leaves; cows, horses  
& sheep refuse them. (W. Th. G.)

Class 8. Order 1.

Comus. P. Comus. Ang. Ash. Aspen. Aspen-tree. Trembling Poplar. Post wood.  
Large ground. Bl. Bush. Spain.

Use. The wood is extremely light, white, & smooth, woody, soft, & durable in the air.  
The bark of the young tree is made into torches. The bark of the tree is the principal part  
of brann. It will grow in every situation & in all soils, but worst in clay, it  
involves the land; its leaves destroy the grass, & the numerous shoots of its roots  
spread near the surface of the earth that nothing else can grow there. It is easily  
transplanted. Sheep & goats eat it; horses & swine refuse it. (W. Th. G.)

Class 8. Order 2.

Comus. P. Ly-dochia. Ang. Water Pepper. Fox-mat. La-kewid. Biting snake.  
Water-reed. Bl. Bush. Spain.

Use. The whole plant has an acid burning taste. It cures little of those diseases in  
mouth. The ash of this plant, mixed with soap, is a rostrum in a few hands for de-  
scribing the stone in the bladder; but it may be questioned whether it has any advantage  
above other emetic preparations of the vegetable kind. Its acrimony mixed  
in water & the distilled water drunk to the amount of two or three pints daily  
has been effectual in some nephritic cases. It gives a yellow color. The cattle refuse  
it. (W. Th. G.)

Class 8. Order 3.

Comus. P. Avicularis. Ang. Knot grass. Snake weed. Road sides paths, streets, co-  
mmon. Bl. Bush. Spain.

Use. The seeds are useful for every purpose in which those of the buck wheat are employed  
great numbers of small birds, especially sparrows feed upon them. (W. Th. G.)  
The seeds in bread are put over with this plant. (Linn.)

*Pygmaea* <sup>10</sup> *convoluta* & *rayana* in sandal. *Convolvulus minor*. Fr. *Chamaecrista* *maritima*. *Convolvulus* *rupestris*. *Convolvulus* *immutabilis*.  
 The seeds are perfectly as good for use as those of the true wheat of the preceding  
 kind, but they are produced in greater quantity, & this plant bears cold better. (Poth)  
 sow & post it: deep sowing & have refuse it again. A horse eat it. (P)

Class 3. *Quercus*

*Quercus* *Robur* *Quercus* *Princed* *Quercus* *Latifolia*. Fr. Oak. Wood & ridges. Wood. April.  
 The oak is the best directed for medicinal use; (By the ancients various parts of the tree  
 were used: it manifests a strong astringency, accompanied with a moderate  
 bitterness; its universality in stopping of haemorrhages is a proof of its great astringency, &  
 in other astringents it has been recommended in hemorrhages & restraining hemorrhages abundant  
fluxes & other immediate evacuations. A decoction of it has likewise been advantageously em-  
 ployed as a gargle & as a lotion or wash in proliferia oculi et uteri. Dr Cullen  
 as frequently uses the decoction with success in light tumefaction of the mucous membrane  
 of the fauces & in proliferia uvulae & lymphatic inflammation which come on in the east  
 exposure to cold; in many cases the decoction calcined, has served to prevent the disorder. Dr  
 Cullen is constantly assisted a portion of alum, but he tried also a solution of alum alone, & it  
 was so effectual: "M. M. says this oak has been employed not less efficaciously than that  
 of cinchona. but this opinion grows stale. The credit thereof has been doubt that oak bark  
 does have the power of stopping hemorrhages. Dr. Cullen gave it in hemorrhages hæmorrhoides in  
two or three hours during the intermissions of a fever, & both by itself & joined with camomile  
flowers, prevented the return of the hæmorrhages of intermissions. Galls, which are found upon  
 the leaves of this tree are the most powerful of the vegetable astringents. It is a disin-  
 fectant when mixed with a solution of ferrous vitriol & therefore preferred to every other substance  
 for the purpose of making ink. As a medicine they are to be considered as a vegetable to the same  
 indications as the bark of the tree; & by possessing a greater degree of astringent & typtic power  
 are to be better suited to external use. The leaves of a fine powder & made into a fine powder, & made  
 to an ointment they have been found of great service in hæmorrhoidal affections. One is used at  
 the principal indigenous vegetable used in dying, & all the varieties of drabs & dyestuffs  
 of brown are made with it as a substitute variously mixed & compounded. The bark is  
 also used in dying, as a substitute for galls. The bark is universally used to tan leather  
 in solution of it, with a small quantity of sulphur is used by the common people to dye woollens  
 a black blue; the color has not bright as dwell. The wood is hard tough, close, & does not  
 splinter; it is therefore employed in all other timbers for building; it is adapted to almost every  
 use; but to enumerate all its uses would be unprofitable & superfluous. The leaves  
 & acorns fall in the autumn. (Poth)



Sabonaria. S. officinalis. Clas 10. Ord. 2.  
Linnæus. Radix. M. July August.

Its medicinal effect, which must be considered I have not yet been so frequent as  
found. The Linæus for which it is recommended is in rheumatism, gout, obstructions & jaundice  
not here; those on which it can be most availing for a jaundice or inflammation of the  
to those of Sarcocolla seems to have had its medicinal effects & them similar in their effects,  
& since they have both been administered with the same intention particularly in fixed pain  
& venereal eruptions. Bergius says: "In a Rheuma, one ounce of the root in a decoction  
of gum arabic." However according to several writers, the most effectual cases of syphilis  
we cure by a decoction of the plant without the use of mercury. Boerhaave & de Haen  
Galle cutelanda high opinion of its efficacy in jaundice & other visceral obstructions.  
The whole plant is bitter. A decoction of it applied externally cures the itch. The  
Germans use it instead of Sarcocolla in venereal complaints. M. Andry of Paris cures  
lent gonorrhoea by giving daily half an ounce of the inspissated juice. By the use of the  
extract & a decoction of the leaves & roots, M. Guin cures old venereal complaints such  
as ulcer, pain & emaciation, which resisted the use of mercury. - Bonini & ap. tab. 10. 11.  
at rains a rather like soap, which catches greasy spots out of clothes. It  
has been used by mendicant monks for washing their clothes; & Bergius observes that  
it has all the effects of soap itself, but that this saponaceous quality is not injured  
by acids like that of common soap.

Clas 10. Ord. 5-

Sedum. S. Telekium. Ang. Bergius. five leaves. 3rd line stem cap. Only. Cous. Cul.  
Use. A decoction of the leaves in milk is a powerful diuretic. It has been given with  
sugar to cure the piles. Cows, goats, hares & swine eat it; horses refuse it (Linn.)

Clas 10. Ord. 3-

Emberivum. S. cetrarium. Ang. House leek. 10th Aug.  
Use. A person of respectable character has published in a Book & gives a singular fact. It is  
well known that the house leek has been successfully used against corns. This gentleman  
says that being one day attacked with a violent pain in one of his toes, that he went to  
a pit of the soil, he applied the house leek; the relief he experienced encouraged him  
to continue the experiment; he mentioned it to several of his friends, who were  
subject to the gout; the success has answered his expectation. It calms  
cases, he does not see cure this cruel disorder with which so many of people

200 is applied to the invited gentlemen of the faculty to examine whether chance has not procured him the honour & happiness of making a discovery which may prove useful to the world.

The house lark is found after having the thin outside taken off. It grows in the summer 1818. The house lark by many is considered to be the same with the *Seaman's Lark* described in the preceding article.

Clap 11. Order 2.

*Carpinus*. *C. Americana*. *C. Betularis*. Fr. Horn beam tree. Hard beam tree. Horse or horn beam tree. Wood. Buds. Blof. May.

Use The inner bark is much used in Scandinavia to dye yellow. The wood burns like a candle; it is very white, very tough, harder than Hawthorn, & capable of supporting a great weight; it is useful in turning & for many implements of husbandry; it makes cog, for mill wheels, even superior to yew. Cattle eat the leaves, but it will not flourish in its shade. It loves a poor stiff soil on the sides of hills; it is easily transplanted & bears topping. (Wit.)

Clap 13. Order 1.

*Najas*. *N. Lutea*. *Nymphula lutea*. Fr. Yellow water lily. Water can. Flowers in ditches, pools. Bl. July, Aug.

Use. An infusion of one pound of the fresh root to one gallon of water, taken in doses of a pint night & morning cures a Leprosy eruption of the skin. Ray affirms that the flowers smell like brandy. (Wit.) The roots rubbed with milk destroy crickets & cockroaches. Swine eat it; goats are not fond of it; horses, cows & sheep refuse it. (Linn.)

Clap 13. Order 2.

*Poterium*. *P. Sansonaria*. *Pimpinella minor*. Fr. Burnet. In dry calcareous soil. Bl. Apr. May.

Use. The leaves & seed are mildly astringent, & have been used in dysenteries, & haemorrhages. The young leaves are frequently used in salads & cool than raw chervil. When bruised they smell like the cucumbers. It has of late years been cultivated by farmers as affording food for cattle early in the spring; & from its very succulent & both allowed of them mowing during the summer; but it is



to answer the expectation formed of it & is now generally considered  
 the one said not to be found it, & its produce is not sufficient to answer the  
 purposes of its culture. (Curtis) On Salisbury plain it grows almost the whole  
 of the year over a great extent of that most excellent sheep walk.  
 It is kept close sheared by the large flocks which pass over there, & ap-  
 pears to be a most valuable plant in hilly & stony pastures. By  
 its it is preferred to clover, but not by sheep or horses. Mr Potts says it ap-  
 pears only to love a calcareous soil it may have failed in cultivation from  
 want of attention being paid to that circumstance, & when fully grown it  
 may be disliked by cattle, tho' when close bitten, is valuable to sheep (Withy)

Class 13. Order 13.

*Trifolium. T. Druceum. T. Flavum.* Any shadowy me. Moist ground. Bl. June  
 It is a common plant of the lower part of the known it, in relief in the scitica. In  
 it dyes wool yellow. Horse, cow, sheep & goat eat it: swine are not fond of it. Linnaeus

Class 13. Order 13.

*Ranunculus. R. Flammula.* Any. Moorwort. Less frequent. Bay. boggy meadows. By the  
 side. It is very acrid; & its acrimony rises in distillation. The distilled water operates like  
 into vitriol as an instantaneous emetic: & Dr. Boerhaave says from his own experience  
 at in cases of cholera, or other circumstances, where it is necessary to make the patient  
 vomit instantly, it is preferable to any other medicine yet known, & does not excite  
 any painful contractions in the upper part of the stomach which are sometimes seen  
 and even white vitriol thereby indicating the intention for which it was given. Applied  
 externally, it inflames & darts the skin. Horse eat it: cow, goat, sheep & swine  
 refuse to eat it. (Withy)

*Ranunculus. R. Sceleratus.* Any. Road side water, cow root. Common in water. -  
 yellow water. Bl. May, June  
 The whole plant is very corrosive, & is said to be made use of by beggars, for the cure  
 of ulcers in their feet, which they thus expose to the public to excite their  
 pity. Horse, cow, & sheep refuse it. (Withy)

*Ranunculus. R. Sceleratus. R. Scutellaria.* Any. Bathing cups. In the river. In right meadows  
 cow root. Meadows & pastures. Bl. June July -

causing strangury or the like. right foot It is very acid & produces the skin case.  
 With. The acrimony of this many species R. is so great that on being apply'd  
 to the skin there excite itching, redness & inflammation. & even produce blisters  
 & ulceration of the part. if crewd they corrode the tongue, & pass  
 into the stomach, bring on all the deturion effects of an acid poison. It is  
 observed by Mr. Wither that even by pulling up this plant, & carrying it to  
 some little distance, a considerable inflammation was excited in the palm  
 of the hand in which it was held. This species is one of the most acid, & one  
 of the most common in England of the tribe. The acrimony quality may be  
 completely dissipated by heat; & when thoroughly dried, the plant becomes ge-  
 nerally bland; & its violence depends much on the situation in which it grows  
 & is greatly diminished in the cultivated plant. For medical purposes this, & the  
 other species of the R. have chiefly been employ'd as a vesicatory, & are said to have  
 the advantage of a common blistering plaster, in producing a quicker effect, & more  
 causing strangury. On the other hand, it is said to be less certain in its operation  
 & sometimes occasions ulcers, which prove very difficult & troublesome to heal.  
 For these reasons seem to be applicable only to certain fixed pains & such complaints  
 as require a long continued topical stimulus, or discharge from the part in the  
 way of an issue, which in various cases has been found to be a powerful remedy.  
 The cases of its use in chronic rheumatism, & the complaints see Chamberl.  
 in. Pocket. The manner of using the plant, is to bruise it in a mortar, & to ap-  
 ply it to the skin as a poultice or plaster. Woodvill. Thresh & root eat it, & we  
 have it mentioned thro' their pasture he ever so rare. Withering -  
 - - - - - R. Bellon. An. Butter cups. Butter flowers. Gold cup. Bulbous  
 - - - - - Bellon. Meadows pastures. Bl. Hay.  
 It is a most violent & extremely acid, & corrosive especially the fresh roots, which  
 will readily ruin & bite as deeply as can be desired; notwithstanding this when well  
 become so mild as to be cuttable. In the part The bulb is formed above the bulb of the  
 last year when the flower is done. The old bulb in a dry soil, may be found in a state  
 of decay, under the new one is surrounded by fibres, but without the least appearance  
 of decay. Withering -

... The flowers gathered before they expand, & preserved in alcohol vinegar are a good sub-  
stitute for saffron. The juice of the petals boiled with a little alum, stains the hair  
yellow. The remarkable yellowness of butter in spring has been supposed to be caused  
by this plant. But cows will not eat it unless it can be killed by extreme hunger; & then as  
we have observed it occasions so great an inflammation that they generally die. In May  
the people have a custom of strewing its flowers upon their doors.

Clap 15. Ord. 1.

*C. officinalis*. *C. officinalis*. *C. officinalis*. *C. officinalis*. *C. officinalis*.  
An indigenous perennial plant growing on the sides of ditches the banks of rivers &  
in damp places (also in gardens) flowering in the month of May. For medicinal & culinary  
it is also cultivated in gardens. Horse radish root has a quick pungent smell, & a pen-  
etrating acid taste. It nevertheless contains in certain vessels a sweet juice which some-  
times exudes upon the surface. By drying it loses its acrimony, but if kept in a cool place  
under the mud it retains its qualities for a considerable time.

The medicinal effects of this root are to stimulate the solids, & promote the fluid re-  
solution; it seems to extend its action through the whole habit & affect the minutest glands.  
It is greatly recommended by Sydenham in dropsies, particularly such as occur in the  
lungs. In paralytic complaints horse radish has been sometimes applied with advantage  
as a stimulant, similar to the heat effects. When studied in vinegar during a hot night  
the root is said effectually to remove Greasiness in the face. A syrup made of boiled  
sliced horse radish in brown sugar, is an excellent remedy in the decline of old  
persons to promote expectoration, & remove hoarseness (Theophrastus.)

*C. officinalis*. *C. officinalis*. This is an annual plant growing on the seashore & in moun-  
tainous situations & is sometimes cultivated in gardens. It possesses a considerable degree of  
acrimony, & by distillation it affords an essential oil the smell of which is so strong  
as to be very disagreeable.

The Gosh plant is a gentle stimulant & diuretic, which is used for the cure of the sea-  
sickness. It is employed externally as a gargle in sore throat, & in paralytic affections of the  
tongue & mouth. It may be eaten in substance to any quantity or the juice may be ex-  
tracted from it, or it may be infused in wine or water, or its virtues may be extracted  
by distillation. Dr. Withers says it is a powerful remedy in the pitting of the skin, & in what  
Sydenham calls the scaly rheumatism. The juice is prescribed along with that of oranges,  
& of antiscorbutic juice. (Ibid.)

10



*Linodendron pubescens*  
 White-wood. Improperly  
 called by prof.



*Conium maculatum*  
 Gold-Throat

in Louisiana. *L. Michauxii*. Fr. Large being Poplar. White tree. The bark the root.  
 A native & well known tree in the United States, called also American poplar, white  
 wood, & in some parts of Louisiana imbricatus called cypress tree. It attains to a considerable  
 size rising as high as any forest tree, & makes a noble & beautiful appearance when in flower  
 about the middle of May. This tree is remarkable for the shape of its leaves, having  
 middle lobe of the three truncate or cut transversely at the end. The flowers are large  
 bell-shaped, calyx, three leaves, six petals to the corolla, marked with green red, & yellow  
 spots, & many lance shaped seed, lying one over another, & forming a sort of cone. The  
 bark of the roots has long been employed by medical men in the United States, as a tonic  
 when joined with various preparations of peruvian bark, & *cornus florida*, has afforded  
 remedies of equal efficacy with Peruvian bark. It is a strong bitter, & considerably aro-  
 matic & astringent. It has been found particularly beneficial in the last stage of dysen-  
 tery. The powdered root combined with steel dust is an excellent remedy in relation  
 to the stomach. According to Dr. Barton the bark is used in some parts in cold & rheu-  
 matism. A decoction of it is said to be a common remedy in Virginia for both in horses.  
 Dr. Deane gives the following account of the use of this tree: "The best time to procure the  
 bark for medicinal purposes is the month of February, as the sap at this time being re-  
 mained to the root increases its virtue: it possesses the quality of an aromatic & bitter  
 aromatic, & an astringent; the bitter quality is greater the astringent less than in the  
 Peruvian bark. It likewise possesses an aromatic quality, hence I infer it is highly anti-  
 spasmodic & powerfully tonic. I have prescribed the poplar bark in a variety of cases, & the in-  
 deed that have been declared from experience, it is equally efficacious with the Peruvian  
 bark if properly administered. In the phthisis pulmonalis attended with hæmoptoe  
 & diarrhoea, when combined with Laudanum it has frequently afforded  
 relief in alarming & troublesome symptoms. I expect to cure a Mr. Kiser fifty years of  
 age, who was afflicted with a catarrh & dysenteric symptoms for five years which  
 defied the attempts of many physicians, & the most celebrated remedies, by pre-  
 scribing in the use of the poplar bark for two ~~or three~~ weeks.

I can assure from experience there is not in all the Materia Medica, a more  
 certain & effectual remedy, in the dysentery, than the poplar bark combined  
 with a small quantity of Laudanum. I have used no remedy in the diarrhoea but  
 the poplar, & the diarrhoea, the prima via, for these two years. It appears to be

which has some under observation. I observed it to scald when combined with  
 some more after taking a few doses, several hundreds of dead ascarides were dis-  
 covered with the stools. The dose of the powder to an adult is from a scruple to two  
 drachms it may likewise be used in tincture, infusion or decoction, but its virtues are  
 always best when given in substance.

The foregoing is part of a letter addressed to Governor Clayton of Delaware in 1792  
 by Dr. T. G. of Philadelphia (American Museum vol. 2) In his reply the Governor  
 says: "During the late war the Peruvian bark was dear & scarce. I was at that  
 time engaged in considerable practice & was under the necessity of seeking a substitute for the  
 Peruvian bark. I conceived that the poplar had more aromatic & bitter than the Peruvian  
 bark contained. To correct & amend those qualities, I added to it nearly an equal quan-  
 tity of the bark of the root of dogwood (Comm. Florida or boxwood) & half the quantity  
 of the inside bark of the white oak tree. This remedy I prescribed for several years,  
 in every case in which I conceived the Peruvian bark necessary or proper with at least  
 equal if not superior success. I used it in every species of intermittent, gangrene, mor-  
 tification, & in short in every case of debility. It remains to determine whether the addition of  
 those barks to the poplar increases its virtues or not; this can only be done by accurate  
 experiments in practice."

A further account of the analysis & virtues of this medicine is given by Professor  
 Smith in the transactions of the college of Physicians of Philadelphia, & in a paper pub-  
 lished in one of the volumes of Edwards Phil. Magazine.

Class 13. Order 13.

*Cortic. C. trifolia. Pellibon. ripoliaticus. Nipilla. Ang. Gold thread. Mouth*  
*root. (cutlet).*

Use. Golden thread is a very small plant found in wet swampy situations. The stems  
 are erect & naked. The leaves grow by threes at the termination of the stems, & are  
 oval & polished. In white water lilies appear in May. The roots appear singular  
 being three lapped running, & of a bright yellow colour. They possess a considerable  
 quantity of astringency & bitterness, & have long been employed by the people in the  
 country as a remedy in apthas & cankerous sores in the mouths of children  
 with considerable benefit. From the bitter property possessed by these roots they are  
 esteemed by some to be useful as a stomachic bitter. Thacker, vide relation of...

Nature. M. Viridis. Aug. Spicatum. Mint. Water place. Banister's review.  
 1. July. N.Y.

The *Spicatum* are to be ascribed the same medicinal qualities which belong  
 to peppermint; but the preparations of it, the pharantia, are less efficacious than  
 those of the latter. It contains much essential oil, but of an odour somewhat less agree-  
 able than that of lavender or marjoram. It is therefore less employed as a ce-  
 lachic; but it acts very powerfully upon the parts to which it is immediately  
 applied. & therefore considerably on the stomach invigorating all its functions.  
 It acts especially as an antispasmodic & therefore relieves pains & colic in undu-  
 lion spasm, it will also stop vomiting depending upon such a cause. But  
 there are many cases of vomiting in which it is of no service; & in these cases any  
 use depending upon inflammatory irritation in the stomach itself, or in other  
 parts of the body, it aggravates the disease & increases the vomiting. Practitioners  
 are thought, & justly according to the opinion of Dr. Woodville, that the infusion  
 of mint in warm water, agrees better with the stomach than distilled water which  
 after somewhat empyreumatic (Cullen 11. 129) Mint, according to Linnaeus possess-  
 es a strong emmenagogue power. That a woman, by the frequent use of it, be-  
 came subject to menorrhagia. Lewis observes, "that it is said by some to pre-  
 vent the coagulation of milk & hence it has been recommended to be used along  
 with milk diet, & even in cataplasms & fomentations for removing coagulated  
 milk in the breasts; upon experiment the curd of milk digested in a strong  
 infusion of mint, could not be perceived to be any otherwise affected than by com-  
 mon water; but milk in which mint leaves are set to macerate did not coagulate  
 so near so much soon as an equal quantity of the same milk kept by itself.  
 The officinal preparations are an essential oil, a conserve, a simple water, & a  
 dist. (Woodville). The flavour of this species being more agreeable than that of others,  
 it is generally culinary & medicinal purposes. A conserve of the leaves is very good  
 & the distilled water both simple & spirituous are universally thought to be  
 the leaves are used in string called, & the juice of them boiled up with sugar  
 & bound into tablets. The distilled water & the essential oils, are the best  
 to stop itching, & frequently with success. Dr. Lewis says that do mint, dis-  
 tilled in rectified spirits of wine, gives out a tincture, which appears by daylight





Clap 14. Order *Synonima*

*arvensis*. *Al. Belgae*. *N. Helum* *Str.* *White* *Flor* *round*. *Road* *side*. *sub* *sin.*  
Bl. pub. left.

The leaves have a strong aromatic but disagreeable smell which by being distilled, & a bitter, penetrating, & extensive taste, & warmth in the mouth. It was much extolled for its efficacy in removing obstructions of the lungs & the viscera: & has been richly employed in humoral asthma, obstinate coughs, pulmonary consumptions, instances are also mentioned of its successful use in various affections of the liver jaundice, cachexia, & menstrual suppressions. & other diseases, though it does possess some medicinal powers, are not elsewhere stated. & it is now rarely prescribed. A decoction of the dried leaves in, or with two or three ounces of the expressed juice, or an infusion of half a handful of dried leaves have been directed as a dose. The last mode is universally prescribed by the common people, with whom it is a favourite remedy in coughs & asthma. Bergius describes it as tonic, emmenagogue & diuretic. Dr. Cullen denies it to be a pectoral & says that in several cases, it was judged hurtful. When in considerable quantities it is said to loosen the loche. (Woodville). It has a strong musky smell, & a bitter taste, it is reputed attenuant & resolvent: an infusion of the leaves in water sweetened with honey, is recommended in asthmatic & phthisical complaints, & most of the diseases of the lungs & of the chest is a principal ingredient in the Negro Curio's remedy for vegetable poisons. A young man who took mercurial medicines was thrown into a salivation which lasted more than a year, & he was not taken to remove it rather increased the complaint; at length Simaen prescribed an infusion of this plant, & the patient was restored in a short time. *Homer*, *cor.* *rup* & *proct.* *occur* *it.* *It* *theriaca*.

Clap 14. Order *Synonima*

*arvensis*. *O. Belgae*. *B. Sylvatica*. *O. Anolicum*. *O. Virginiana*. *Ang.* *Mal.* *or* *Ed* *majorum*. *Pent* *majorum*. *Thi* *cut* *hedge*. *in* *celebrum* *vill.* *pa* *den.* *Bl.* *pub.*  
It has an agreeable aromatic smell, & a pungent taste, much resembling thyme which it is more sensibly allied than any other of the verticillatae & therefore to be emmenagogue, tonic, stomachic & aperient however, as only is attributed to the aromatic & stimulant powers which all the herbs of this nature are

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very acid penetrating essential oil, which has been much used for easing the pain of a carious tooth, by dropping it on cotton, & inserting it in the cavity. The dried leaves instead of tea, are exceedingly grateful. They are also employed in medicated baths & fomentations. (Woodville). The whole plant is a warm aromatic: the essential oil of it is so acid, that it may be considered as a caustic & is much by far used with that intention. & with cotton wool moistened with it, & put into the hollow of an aching tooth, frequently relieves the pain. The country people use the tops to dye purple. Goats & sheep eat it. Horses are not fond of it: cows are sure to eat it. (Witth.)

The medicinal qualities of the garden marjoram, or sweet marjoram whose nature is not known, agree with those of its congeners above, but being more fragrant the sweet m. is deemed more alkalic & better adapted to those complaints known by the name of nervous; & may therefore be employed with the same intention as Lavender. In its recent state, it is said to have been successfully applied to scirrhous tumours of the breasts. (Woodville.)

Class II. Order Angiospermis.

Pelicanaria. P. Sylvatica. P. Canadensis. Aug. Common housewort. Pl. pastus with Pl. Jun. July.

Use. The expressed juice or decoction of this plant has been used with advantage as an injection for sinuous ulcers. It is said that if the healthiest flock of sheep be fed with it they become scabby & scurfy in a short time; the wool will get loose & they will be overcome with vermin. Cows & swine refuse it. (Witth.)

Class III. Order Anurosem.

Digitalis. D. Purpurea. Urtica Urtica major. Aug. Fox-glove. Hedge banks. in the woods. but rarely in the ground. Pl. Jun. July.

Use. The leaves which have a narrow bitter taste, have long been used externally to scirrhous tumours with considerable advantage. Internally this plant has been used with efficacy in epilepsy, cardiac & pituitous; but from want of caution it was found a dangerous remedy. It was discovered by Dr. Wittich to be a powerful diuretic, & has been successfully used by him, & by succeeding practitioners in the cure of the dropsy; in which, and in certain other cases it is a valuable & important medicine. See the

of the Fox glove, rub 1785. But administered with a little honey 211  
 it was found to be useful in various cases. (Ann. Med. Soc. Lond. 1802.) It has a very  
 remarkable power of lowering the pulse. (Woodville) It is certainly a very active medicine  
 seems lately to have attracted more attention than ever in practice was formerly  
 customed to be on it. (See Beddoes on Pulmonary consumption. Ferrius on Big Livers)  
 i.e. some proofs of the decoction of the leaves are violently emetic & cathartic.  
 It is said to be useful in suspensions taken inwardly for some time; & the bruised  
 leaves or an ointment made of them applied outwardly. Light foot

Woodville have been written upon the efficacy of this valuable medicine. Without  
 prescribing from any one of them, I shall only refer to Beddoes & Ferrius alluded to  
 before. & to the various communications in the Medical & Phys. Journal upon this  
 medicine & to the 2<sup>d</sup> vol. of Meeker's Dispensatory. a. t. Cryptalis. L. N. W.

Class 15. Order Sclerolosa.

Solidum. L. Virginianum. L. Latifolium. Ang. Wild pepper grass. Bitterness  
 of the water. Pommans pepper. Common Bitterness. Meadows & pastures. Fl. July  
 - Aug. This is one of the acid antiscorbutics. & was formerly used in the pleurisy  
 & scurvy. An infusion of it is emetic. (Meeker)

Class 15. Ord. Sclerolosa.

Melampyris. L. Bursera. pastoris Ang. Shepherd's purse. Shepherd's pouch. Pasture  
 & roadsides. walls &c. Bl. March. Sept.

Use. It is insipid to the taste; but it is recommended by many writers in haemor-  
 rhages of all kinds, both as an internal or external application, either in man or  
 beast. Light foot.

Class 15. Ord. Sclerolosa

Urtica. L. Officinalis. C. horstii. C. rotundifolia. Ang. Stinging nettle. Stinging nettle.  
 Stinging nettle.  
 It has an unpleasant smell & a warm acrid bitter taste. It is used in the  
 in epistaxis, & is also in very small quantities in distillation with water & is  
 used to mix in the aqueous fluid. It is of great volatility, activity, & irritation; on

12 ... on sugar, communicates to a quart of wine or  
... the ... of ... grape. Lewis ... is an ...  
... + is said to open the circulation of the ... + ...  
... the system: it has long been considered the most ...  
... all the antiscorbutic plants, for which we have the testimony not only of phy-  
... but of the most celebrated navigators who have experienced its bene-  
... And it is worthy of remark that it grows most plentifully in the  
... where the scurvy is most obnoxious. Its sensible  
... are sufficiently powerful to confirm this opinion. In rheumatic  
... by Sydenham scurvy rheumatism, consisting of wandering pains of low  
... accompanied with fever, this plant combined with alum-wood root is  
... highly recommended both by Sydenham & Lewis. It remarkably ...  
... from the sea & known by the name of *Sp. antiscorbuticum*, ...  
... found by ... to be a useful remedy in ...  
... requiring an active powerful stimulant, given in the dose of ...  
... times a day. Cullen M. M. But as an antiscorbutic rather than the conserve  
... much benefit as the ... plant eaten in the way of salad, or the ex-  
... juice, as directed in the Pharmacopoeia. There are instances of  
... having been cured of the scurvy by the use of this plant; & as it  
... then is no doubt but it cures perfectly. The best method  
... is raw in salad. It is also diuretic & useful in dropsies. The high  
... a good stomachic. ... are universally  
... it is a powerful remedy in the pituitous asthma, & in what Sydenham  
... rheumatism. It possesses a considerable degree of acrimony, which  
... is a very subtle essential oil; a distilled water & a conserve are  
... from the leaves, & its juice is preserved along with that of oranges in the  
... of antiscorbutic juices. It may be eaten in salad. Notwithstanding its  
... of the sea coast, it is cultivated in gardens without any view to the  
... of its ... roses, & such ... In Iceland  
... eat it greedily & gather every growth upon it. But this  
... from it a very narrow ...

... C. ... C. ...  
river & ... garden. N. ...

The root has been used into the ...  
The quick penetrating pungency, but in certain ...  
... in little depth ... the surface; its pungent matter is ...  
... wholly dissipated by drying. (Linn.) The root affords one of the most acrid substances  
this order, & therefore proves a powerful stimulant, whether externally or internally  
employed. Externally it readily inflames the skin, & proves a rubefacient that may  
be employed with advantage in psoriasis & rheumatism; & its application, if long con-  
tinued, produces blisters. Internally it may be used with advantage in the cure of  
anorexia which proceeds from an interrupted secretion of mucus; one drachm of the  
root, fresh scraped down, is enough for four ounces of water, to be infused in a close  
vessel for two hours, & made into a syrup with double its weight of sugar. Of this syrup  
two spoonfuls or two swallowt daily, or at least repeated two or three times, has  
been found very suddenly effectual in relieving consumption. This syrup is a substitute  
for the juice of the crinum when the latter is not at hand. (Cullen M. M. ii. 167)  
... into the stomach, it stimulates & promotes digestion, & therefore it is a proper con-  
sistent for animal food. A portion of its infusion taken with a glass of wine, it pro-  
ves readily emetic, & may be either employed as such by itself, or to assist  
the operation of other emetics. Infused in water & taken into the stomach it proves  
stimulant to the nervous system, & is thereby useful in psoriasis; employed in large quan-  
tity it is heating to the whole body; & hence is often useful in chronic rheumatism  
whether arising from sluery or other causes. Cut down without bruising into very small  
pieces, & macerated without heating, in a large quantity of the amount of a table-spoonful  
of morning for a month to. Thus it is said to have been extremely useful, in asthma  
cases; but these were probably of the rheumatic kind. employed in this manner it  
... the ... the ... to ... in the stomach its ...  
parts, that stimulate without inflaming. It is also a powerful diuretic, & there-  
fore useful in the dropsy. In this manner we sometimes warm & perspire, & thus  
it has been known as one of the most powerful antiscorbutics. The root scraped in  
morning at our table, as a condiment for fish, roast beef, & at ...

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... it is an useful ...  
... it is ...  
... it is ...

Class 15. Order Silicosa.

Cymbidium. Plantago. S. Amphibium. Plantago. Asiaticum. Stom. Water  
Cortex. Spina. ovoid.  
The leaves have a moderate pungent taste & a quick penetrating smell.  
This antiscorbic quality has been long generally acknowledged by Physicians.  
They are also supposed to purify the blood & humours & to open visceral obstructions.  
They are much used to curing grass but more mild & pleasant & are therefore  
frequently eaten as salad. The juice of this plant is directed in the Pharm.  
as that of curing grass & swell oranges. Woodville.

This plant is an excellent antiscorbic & stomachic with its acrimony  
the curing grass; it is an ingredient in the antiscorbic juices. It is very unwholesome  
used as an early & wholesome thing salad. With it is said to be useful in jaundice  
& other visceral obstructions. (Lig. effort) —

Class 15. Order Siliq.

Tr. am. C. Officinale i. Belgae. ris nival. vulgar. Long. Redge mustard  
or com. red. Black caper. Scrambling rocket. Road side. vulgaris. Bl. May fern.  
The leaves of this herb is somewhat acid & mucilag. the tops of the flowers makes. Its taste  
is considerably pungent & is said to be nearly of the same quality with those of the  
mustard. Though used in this plant is said to attenuant, expectorant & diuretic; & has  
been strongly recommended in chronic coughs & hoarseness. It is mentioned by Non  
Latus that a hoarseness occasioned by loud speaking was cured in three days by means  
of it; other medical writers also have borne testimony to its good effects in this disorder, & Dr  
Cullen for that purpose recommends the juice mixed with an equal quantity of honey  
or meat; in this also it is a useful remedy in ulceration of the mouth & throat.  
In most cases of disease perhaps its seed, as more pungent, should be preferred to its  
leaves. Woodville Redge mustard is beyond any thing in use of the throat. This  
is by experience by the Hon. Robert Gray Esq. when all advice of Doctors & Surgeons

...nothing; this from his own mouth. His note is a copy of a ...  
which formerly belonged to Mr. Saunders, surgeon at Plumbridge. It is ...  
taste; & when cultivated, is used as a spring, hot herb. Birds are fond of the seed. Sheep  
eat it; cows, horses & swine refuse it. (Withy.)

pinum. P. Barbarea. Ang. Winter crop. Winter rocket. Rocket worn red.  
... banks & watery places. N. May, October.  
... The leaves are used by the common people in Sweden in salads early in spring  
late in the autumn. They are also boiled as kale; & is sown in gardens for an early  
spring salad. Linn. In England also it is cultivated for the same purpose by the name  
French crop. Cows eat it. Sheep & goats are not fond of it. Horses & swine refuse it.  
(Withy.)

Chap 15. Ord. Sciq.

rapica. B. Napus Ang. Wild Nave. Nape. Nape. Nape cabbage. Ditch bank com.  
... N. May.  
... The roots of the cultivated variety may be eaten like turnips may be eaten like turnips  
at the same time, its seed which are called cole seed afford a large quantity of  
... oil which is known by the name of Rape oil. What remains after the oil  
of the oil is called oil cake & is used for fattening oxen. In Norfolk these cakes are  
... manure broken in pieces & sown upon the land it is thought to be very efficacious  
... is sold for 2s to 6s per ton. Rape ton is laid on an acre. (Woodward). Cows, goats & swine  
at it. (Withy.)

rapica. B. Rapa Ang. Turnip cabbage. Var Turnips. Turnips. Common field ...  
... The roots are either eaten raw, boiled or roasted, & is commonly used with  
... They relax the bowels & are supposed to sweeten the blood; they are useful to  
... somewhat women or to hysterical persons, & to those who are subject to flatulencies.  
... juice well fermented affords by distillation an excellent spirit. The seeds are  
... The roots kept in sand or in a cellar during the winter, send out white shoots &  
... which being rather sweet & not unpleasant to the palate are used  
... when other winter herbs are not to be had. But the greatest use of turnips  
... in feeding oxen & sheep in the winter. (Withy.)

rapica. B. Brassica. Ang. See colwort. Sea cabbage. Common cabbage. Clifton brassica

... the cabbage is superior to the cultivated kinds, but  
 being found in the sea coast it must be boiled in two waters, to take away the saltiness.  
 It is not only be eaten like those of the preceding species, but they are not so tender.  
 With the different varieties of the cultivated garden cabbage which are much in use  
 at our table originate from this. The one cabbage is chiefly used for pickling in  
 some countries the white cabbage when full grown in autumn, is boiled & thus pre-  
 served through the winter. It is a common practice in Germany to cut them to pieces  
 & along with some aromatic herbs & salt to press them close down in a tub, where they  
 soon ferment. This is eaten under the name of sauer crout. Cabbage is a it is be  
 infected early in the year with an insect called the *Chrysomela saltatoria*, & ap-  
 proach the *Capilia Boasica*; it may be preserved from the former by turning  
 the ground with roots, & from the other by whipping the plant with the green leaves  
 of asides. Cabbages sowed or planted for several years together in the same soil become  
 smaller in the head, & the roots smaller, which is occasioned by the larvae of flies.  
 (C. the)

July 15. Oct. 1840

*Sinapis*. *S. nigra*. *S. alba*. *S. napifolia*. *Sin.* Common mustard. Black mustard. Com.  
 white road side. B. June.  
 Use. The seeds of this plant & those of the *S. alba* which are preserved by the oil, will  
 manifest no remarkable difference in the taste nor in their general effects, & therefore  
 answer equally well both for the use of the table & the purposes of medicine. They have  
 an acid pungent taste; & when boiled this pungency shows its volatility, or power of  
 affecting the organs of smell. Mustard is considered to promote appetite and di-  
 gestion, attenuate viscid juices, & by stimulating the fibres to prove a general remedy  
 in paralytic & rheumatic affections. When in considerable quantity, it is found rather  
 & diuretic, & therefore useful in dropsy. For ordinary table purposes of the unbruis-  
 ed is not acting on the stomach, but stimulates the intestinal canal, & commonly  
 proves laxative. *Phlegm.* It has been recommended as an antiscorbutic; the seed  
 boiled & mixed with white wine cured an inveterate & fatal scurvy which had as-  
 sured the confinement of a sailor. Though it is said by Galen, that the use of mustard  
 before the humors be putrescent, & injures the stomach an opinion into which  
 was probably led by the common observation that it contained volatile alkali.



great pungency is to be ascribed to it to a considerable degree. The seeds contain  
 contains. The seeds found in mustard of great use in venereal diseases & of powerful  
 whole seed taken three or four times a day during the eruption; when the disease was  
 situated in the adder, lower of, mounted to the back. Internally the seeds are used as a  
 laxative, or emeticum; when moistened with vinegar & kept for a day, the powder becomes  
 remarkably more acid which should be attended to in its external use. (Allen). It may  
 not contain the same quantity as the quantity of a spoonful, or half an ounce  
 is a dose. (Woodville). The seed reduced to powder, make the common mustard so much  
 more potent at one table. They yield a considerable quantity of essential oil, which has  
 a hot but little of the acrimony of the plant. Taken inwardly in the quantity of a  
 neat spoonful or more, they gently loosen the bowels, & are of service in asthma, chronic  
 rheumatism, & palsy. The powdered seed mixed with milk, & given a strong impregnation to  
 drinking water; the infusion taken in any considerable quantity is emetic; in smaller doses  
 is a useful aperient & stiptic. Costly plasters formed with the powdered seed, crumb of bread  
 vinegar are very commonly applied to the soles of the feet, as stimulants in fevers which  
 require such treatment; they are used with advantage. Topically applied in fixed rheu-  
 matic & sciatic pains. Wherever a strong stimulus is required, that acts upon the nervous  
 system without exciting much heat there is none preferable to mustard seed (Nightingale)

Note. The S. alba or white Mustard with rough seed is commonly sown for cas-  
 sallading the seed has the same properties as the above.

Class 15. Rad. Rhiz.

Raphanus. R. Raphanistrum. Ang. White flowered Chalk. The Dutch.  
 Amoy corn. Pl. June, July.

Use. In wet seasons it grows in great quantity amongst the barley in Sweden, & it  
 deserves to be remarked that in those provinces & in those seasons when this plant  
 abounds the common people who eat barley bread are afflicted with very violent con-  
 vulsive pains. (Aman acad. vi. 430). Horses eat it: cows refuse it. (Nightingale).  
 The pernicious plant abounds in our north meadows & does great damage to  
 the seed of flax which grows there & to our peas & oats. S. Dr. M.



~~Hydrangea~~  
~~Lonicera~~

~~Hydrangea~~  
Lonicera



Taxus Canadensis

Dwarf yew

Arca. J. Canadense. J. Baccata. Ang. Dna. J. ... Mountain Wood. Bk. March. ...

Use. The berries are sweet & viscid: children often eat them in large quantities without any inconvenience: but the fresh leaves are fatal to the human species. Those children were killed by a spoonful of the green leaves. They died without any or any of the usual symptoms of vegetable poisons: the same quantity of the dried leaves had been given the day before without any effect. (Perrinels En. iii.) And though it is eaten by sheep & goats, there are instances of both being killed by it branches having been found in their stomachs. (Gent. Mag. 56. 94.) Sheep are said to have been killed by browsing on the bark: the saplings in a half dried state, Dr. Withering thinks the most detrimental to cattle. The wood is hard, smooth, & beautifully veined with red; it is converted into bars, ends, spoom, cog, for mill wheels, & float gates for small ponds, which hardly ever decay. It grows best in a moist loamy soil: on dry or stony mountains it languishes. It was transplanted even when old; & as it bears shiping, it is often used for hedges which form excellent screens to keep off the cold winds from the tender plants. The berries are eaten by swine & gulls faves; the leaves by sheep & goats; horses & cows refuse them (Withering.)

Clap 5. Ordis 1.

Aralia. J. ... Ang. ... Honey-meth  
Gen. Desc. Corol. tubular half 5 cl't. somewhat oblique: stamens on the ...  
teeth; stigma obtuse usually ending with 5 short papillae.  
Use.

*Actea. A. Spicata.* Fr. Rubra. t. Alba. Aug. Herb Christophus. Cohush. Indian name. This vegetable is perennial, growing in woods & shady places. It attains to the height of about two & a half feet. & flowers in the month of may or june, & produces black shining berries in autumn, about the size of peas which are considered poisonous. On account of its fetid smell this plant is said to be frequented by toads. There are two varieties of this plant in the United States; one of which is thus described by Dr. Cutler. "Christophus bamburvis - Blossoms white, very od. In woodlands & shady places, Mass. The berries are exceedingly poisonous. Dr. Withering says the plant is groweth plentifully in the East, & that the root is useful in some nervous cases, but it must be administered with caution." *Actea racemosa*, says Dr. Mease. (Common black ma hoot, or richmond) is a very beautiful plant when in flower. The utility of the root of this plant is well known. It is an astringent. & Dr. Batton says it was used in the form of decoction as a gargle with success in a putrid sore throat which prevailed in New Jersey, many years ago. A decoction of the root cures the itch. In North Carolina, it has been useful as a drench in the disease of cattle called the murrain. (Check)

Class 7. Order 1.

*Asculus. A. Hippocastanum.* Aug. Horse Chestnut. Use. This is a very common & well known tree. The fruit is principally for medicinal & produces excellent starch, & has been used for food for domestic animals, & even for men in times of scarcity. But its introduction into the London Pharmacopoeia, was probably owing to its having been used & recommended as a sternutatory in some cases of opthalmia & headache. With this view it was drawn up the nostrils in the form of an infusion & decoction. The bark has been proposed as an indigenous substitute for the very expensive & often adulterated Peruvian bark. Many successful experiments its effects, when given internally in intermittent & typhoid fevers, & also

Applied externally in gangrene, sufficiently various for trials. powder it may be given to the extent of a scruple, & a half or a drachm  
a dose. It rarely disagrees with the stomach, but its astringent effects gen-  
erally require the use of some aperient medicine. Some species of asarum  
are cultivated in the United States, on account of the beauty & agreeable  
scent of the tree. Medical knowledge might be promoted here, by practising  
to try the efficacy of the bark of our native species. (Ibid)

Class 5. Order 5.

Prickly Ash. Spina. The Prickly Ash. Toothack tree. The bark, root, & berries.  
This is a native of Virginia, & the Southern states. The height to which this tree  
will grow, when the soil & situation wholly agree with it, is about twelve feet. It is  
very ornamental shrub, & the stem which is a dark brown colour is defended by sharp  
spines. A decoction of its bark & roots has often succeeded when taken inter-  
nally, in removing rheumatic complaints. It excites a gentle perspiration. The  
berries are used to put into a hollow tooth when aching. A tincture of them is also used  
for the same purpose, both of which afford relief. In Virginia a Spiritum infusion  
of the berries is much esteemed in violent colic. (Ibid)

Class 10. Order 1.

Wormwood. Artemisia. Abrotanum. Southernwood. Santonica Worm seed. A. Trifida  
Common wormwood.

The two forms of the several species of Artemisia are still regarded as articles of the Ma-  
teria Medica, altho' no important effects are expected to result from any medicinal  
uses they may ~~be expected~~ possess. The seed of santonica has a faint disagree-  
able smell, & a very bitter taste. They have long been held in estimation as anthel-  
minic; the dose half a drachm or a drachm of the powder for an adult. They are  
given to children in powder to the extent of ten grains or half a drachm in the morn-  
g, when the stomach is empty, & when continued for several days a proper cathartic  
is administered. The absynthem or common wormwood is a biennial herb growing wild  
in the woodlands, & is cultivated in gardens. It flowers in August, the smell of the leaves  
strong & disagreeable, the taste intensely bitter. The active constituents of this plant  
are bitter extractive & essential oil. It is used in stomach complaints, & of great

... in cathartic & hydrog...  
... in powder, & against worms. The order to Dr. Withing, an infusion of the  
... is a good stomachic & with the addition of fixed alkaline salts, proves a  
... diuretic in some tropical cases.

This ash is a stronger alkali, than most other vegetables. The  
essential oil, is used both externally, & internally, for destroying worms. The  
... is often employed in fomentations to assist the  
... & if the plant be macerated in boiling water, & reduced to pulp  
... by way of cataplasm, it will not only speedily remove the pain  
but also prevent the discolouration of the part. (W.)

Plasie & Herb.

P. No. *P. noctida*. from *Americanum*. *Discontinuum* *Noctidum*, *Truncatum* & c.  
Use. This singular plant abounds in the swamps & marshes thro' out New England, & is  
... in North America only. The vulgar name by which it is here generally  
known is taken from its very rank & disagreeable smell, nearly resembling that of the  
rank or gold cat, & from its leaves resembling those of the cabbage. It is considered  
a species of the arum. The roots & seeds, when first inserted to the mouth a sensation  
of pungency & acrimony. But according to Dr. Cutler the fructification is essentially  
different from all the genera of the order it must undoubtedly be considered a new one.  
This plant has no stem, & the flower is the first part which appears in April. The  
leaves next appear at a small distance from the flower stalk in <sup>a cone form</sup> nearly oval  
as they arise, supported on foot stalks. The calyx consists of a very large, permanent  
bractea, of a thick porous substance, approaching to an ovate form; open on one side  
& bellied out on the opposite. The margin is crenulate at the base, & somewhat hoarse  
at the apex. The perianth with the bractea. The florets numerous placed round the  
receptacle in an oval form; & are so compact as to appear like a solid, thick  
with small regular protuberances on its surface. Corolla four erect, very thick &  
very obtuse petals. Stamens four fleshy filaments arising from the receptacle  
from the corolla. The thecae oblong. Germen convex. Style cylindrical rather  
than the stigma. Stigma ovate. Seed large, roundish, inch, included within the  
capsule. The colour of flowers is nearly of the colour of the bractea, which is  
... variegated with white & yellow.

The whole domestic article is found to be well deserving of a place in our...

which may be ranked even in the class of antispasmodics, and  
 ad have proved of excellent use in asthmatic cases, & often of great relief in the disor-  
 ders when other means are ineffectual. It should be exhibited during the paroxysm, & re-  
 sisted as circumstances may require in doses of thirty or forty grains. It will be proper to per-  
 sists in the use of it for some time after the paroxysm has gone off, or till the patient  
 perfectly recovered, which is said to have been the method pursued by the Indians for  
 the cure of this disease. The Rev. Dr. Cutler has announced his opinion of its efficacy as ex-  
 perimented in his own particular case after other remedies had disappointed his expecta-  
 tions. The antispasmodic power of the scunk cabbage root have been displayed  
 been prescribed in other diseases. In one of the most violent hysterical cases I ever met  
 with, says a correspondent, where the usual antispasmodics, & even opium has failed  
 two teaspoonfull of the powdered root in spirits & water produced immediate relief  
 on repeating the trials with the same patient, it afforded more lasting benefit than  
 any other medicine. In those spasms frequently affecting the abdominal muscles in pas-  
 sions he adds it produces the desired effect in doses of one teaspoonfull repeated occasionally  
 numerous other instances of spasmodic affection, & also in chronic & acute rheumatism  
 the root either in powder or decoction has evinced its efficacy, & performed important  
 cures, as attested by good authorities in conjunction of my own experience. Two instances  
 are even stated in which this medicine has been supposed to be remarkably efficacious  
 the case of dropsy; two teaspoonfull of the powdered root being taken every morning  
 aspersals till the cure was effected. The seed of this plant are said by some to af-  
 ford more relief in asthmatic cases than the root. A caution is suggested by Dr. Cutler  
 in collecting the roots, the white hellebore, or poke root, which some people  
 call scunk weed, be not mistaken for this plant, as the consequence might be pe-  
 ricious. There is an obvious distinction; the hellebore has a stalk, but the scunk cabbage  
 grows; & the roots of the latter are much larger than the former. (Ibid)

Class 3. Order 2.

Genus. 1. Saturna. Ang. Bats

When dried of this fish and formed into groats, oats are converted  
 to an excellent dish for the infirm and diseased. When ground into meal  
 and in water, they afford a thick & nourishing meal, which with the addition  
 of a little oil & butter a milk is made. An infusion of the

224. - ... is boiled down to a jelly.  
which is called ... in their form, out as nutritious & easy of digestion.  
joints or decoctions, of great or ... either plain, acidified, or sweetened, form an  
excellent drink in febrile diseases, diarrhoea, dysentery, &c. & from their stimulant  
properties, prove useful in inflammatory diseases, hoarseness, vomiting, & exulceration  
of the fauces. &c.

Class 5. Ades

Capricum. C. Annuum. Ang. Red. Pepper Cochin Pepper.  
Ure. The genus of Pepper is a native of South America, & is cultivated extensively in  
the East India islands. The pods are long, pointed, pinnelobed, at first of a green  
color, & afterwards of a bright orange red. The taste of capricum is extremely  
pungent & acrimonious; setting the mouth as it were on fire. Its pungency is com-  
pletely extracted by alcohol, & partly by water.  
Cayenne pepper is the indiscriminate mixture of the powder of the dried pods of  
many species of capricum. These peppers have been chiefly used as a condiment to  
the prevent flatulency from vegetable food, & have a warm kindly effect upon  
the stomach. An abuse of them, in a large quantity however, gives rise to visceral ob-  
structions, especially of the liver. Of late also they have been employed in the practice  
of medicine. There can be little doubt, but they furnish us with the purest & stron-  
gest stimulant that can be introduced into the stomach; while at the same time  
they have nothing of the narcotic effects of ardent spirits. Dr. Astruc, the Kitchin  
who was perhaps the first that employed them as a medicine, directs them to be  
given to the extent of six or eight grains in the form of pills, or in tincture, in  
any injuries, half an ounce of the pods in a pound of rectified spirits, & to be given  
from one to three drachms at a dose. He has found them useful in a variety of af-  
fections, particularly in that morbid disposition, which he calls cecinic species  
& which he considers as a most frequent & fatal morbid disposition to disease among  
the Laos. Dr. Wright says that in droicel & other complaints, where cecinic  
sympoms are indicated, a minute portion of powdered capricum forms an  
excellent, & recommends its use in lithic affections.

This pepper has also been successfully employed, in brand in vinegars, as a



a species of *Cynanchum maligena*, which grows very tall in the West Indies, visiting the Peruvian bark, wine & other remedies commonly employed in practice. Though successful in the West Indies, it is said, is not without danger in the inflammation it is liable to induce.

In tropical fevers, coma & delirium are common attendants. & in such cases the blains of capricum have a steady & good effect. They reddens the parts, but seldom blisters, unless kept on too long. In ophthalmia, from relaxation, the diluted juice of capricum is a sovereign remedy. (Flov)

Cl. p. 4. Order 1

*Urtica. C. Florida. Urtica. Common Dogwood. Borax root.*

This is one of our most beautiful & useful shrubs, growing in almost every part of the United States. In New England it is well known by the name of Dogwood. It flowers early in the spring & with so much regularity, that some of our northern tribes were accustomed to name the Spring season from its flowering. The flowers generally begin to make their appearance about the beginning of May in the middle of May & make most beautiful appearance. The large white flowers form a fine contrast with the green of the forest, & are the ornament of our woods. These are succeeded by oblong capsules or berries of a rich glossy crimson which ripen in September. They have a very bitter taste, & an infusion of them in rum or brandy is much esteemed as an agreeable morning bitter. The bark both of the stem & root is considerably astringent & has long been employed in intermittent fevers. And as possessing properties closely allied to the Peruvian bark, this & the following article will be found excellent substitutes. See page 10. art. cornu cervicis. A full description of both these berries will be found.

Clas 5. Order 2.

*Gentiana. G. Lutea. May. Gentian.*

Gentian is a perennial plant which grows upon the Alps, Pyrennes, & other mountainous parts of Europe. The roots are long & thick, externally of a brown colour & internally spongy, & of a yellow colour, without any remarkable smell, but resembling other Indian vegetables in bitterness. Alcohol dissolves only the bitter extractives, & ether both the extractive & mucilage. Gentian possesses the general virtues of bitters an emetic styptic, & is wholly devoid of astringency. Taken into the stomach

296 it runs - geranium & in large doses, it evacuates the intestines.  
It is used in decoctions of the stomach, in general obstructions & in gout: combined with  
trujent it runs in temetis. The dose of this drug in powder is from ten to  
forty grains: tho it is more frequently taken as the chief ingredient in bitter  
wines, tinctures & infusions. There are several species of geranium in the U. States  
Dr. Schreb. particularly names a low species with narrow leaves, which he  
found in the glades of Pennsylvania. bid.

Class 16. Order 10.

Geranium. G. Maculatum. Ang. Crane bill. vulg. Low. Potte

Use. This is a common plant near Philadelphia, & in many other parts of  
the United States. It is commonly known by the name of "Crane bill" & flowers  
in the Spring. It is a powerful astringent & will stop very violent bleeding  
if applied to the wounded vessel. A decoction of this plant has also, on some  
trials manifested great efficacy in restraining internal haemorrhage. The  
root boiled in milk is a common domestic remedy for the bowel complaint  
of children bid.

Class 1. Order 2.

Hamamelis N. Virginiana. Ang. Witch-hazel

Use. This tree is a native of the United States. The leaves are nearly inversely  
ovate. Blossoms yellow: stand three or four together on short footstalks.  
Leaves fall in September & October. This singular shrub does not come  
down until its leaves are destroyed by frost, when its numerous blossoms make  
gay & agreeable appearance: & continues until the weather becomes very cold  
& often until snow falls. The fruit matures the severity of our winters un-  
der; for the fruit does not ripen until the next September the time of its  
blossoming again, when the ripe fruit & blossoms will be found on the same  
tree. The Indians considered this tree as a valuable article in their Medicine  
ice. They employed the bark which is astringent & disintegrant to punish tumors  
& external inflammations. & catch-leaf of the inner side of the bark

would be very efficacious in removing painful inflammations 227  
the eyes. The bark chewed in the mouth is at first somewhat bitter, very soon  
astringent & then has a pungent acrid taste, which both remain for a  
considerable time. The specific qualities of this tree seem, by no means to be ac-  
curately ascertained. It is probably possessed of very valuable properties, but  
Mr. Barton informs that this shrub grows ten or twelve feet high, from  
a common root.

Clap. 3. Order 2.

*Cardium M. Ureyae. H. Britton. Ang. Barb.*  
The Barbary root from the earliest ages been considered as a wholesome & nutritious  
food. Pearl barley is prepared by grinding off the husk of rough barley & forming  
the grain into little round granules which appear of a kind of pearl whiteness. In  
its state being somewhat unsoftened of amylose matter & when boiled forms an ex-  
cellent article of nourishment. In diseases of the kidneys & of the breast, as well as in  
that of the body when it is cased about in acrimonious humours, decoctions made  
of the grain mixed with honey & acidulated with vinegar are eminent the most useful  
cooling & diluent ~~vegetable~~ beverage. It is useful in general service to debilitated  
patients & in all inflammatory cases, when putrid matter & thick pus  
it to promote its absorption, effects. The gross part which remain after decoction  
ought not to be swallowed. Ibid.

Clap. 10. Order 2.

*Urtica J. Helicium. Ang. Cucumbar.*  
This is a very large strong perennial plant, sometimes found wild in most parts  
of the world. The root, especially when dry, has a disagreeable aromatic smell, it is at first  
strong, is glutinous & somewhat viscid, quickly reduced to an aromatic bitter &  
pungent. The ancient writers held a high opinion of Cucumbar, which is recommended  
for promoting expectoration in humoral asthma & coughs. It is usually taken in  
the form of a decoction or from the Siles. In some parts of Germany, large quantities of  
the root are cultivated & used as a stomachic for strengthening the tone of the stomach  
& for attenuating the humours. It does not grow wholly to the purpose, & in the  
it has been found by experience to possess considerable efficacy. Ibid.

May 23 1852

*Juglans p. tinctoria* Nutt. White walnut -  
 This tree is generally known throughout the United States & is now in use  
 into the Materia Medica of the Massachusetts Dispensary. During the Amer-  
 ican war the extract made from the inner bark of the tree attracted the attention  
 of Dr. Parsh & other medical men in our military hospitals & being frequently  
 administered to patients under the operation of inoculated small pox it was found  
 to be an excellent substitute for jalap or other cathartics. It is now esteemed a val-  
 uable purgative in dose from ten to thirty grains, not occasioning heat or irrita-  
 tion; & is greatly commended in cases of dysentery. Combined with calomel it is rendered  
 more active & efficacious especially in bilious habits. A thin extract is often  
 very carefully prepared by the country people, it ought to be prepared by the  
 apothecary or practitioner themselves; & as a domestic medicine of considerable  
 importance it should be adopted by every physician. The bark of the root of this  
 tree will excite a blister & the bark & shells of the nuts dye a good brown colour.  
 A decoction of the inner bark, advantageously employed as a cathartic in the  
 disease of horses called the yellow water. The extract should be made from the  
 bark in the month of May or June.

*Juglans p. nigra* Black ~~Walnut~~ Walnut. *J. glauca* Green Walnut.  
 Of the *Juglans* there are eight species in the United States. According to Mr. Miller  
 there are six sort of walnuts & he makes the Hickory or White Walnut of *J. nigra*  
 to be distinct from our white walnut. According to DeRoi there are but two sort, the  
 green spontaneously in this country, the white walnut & the black bark so called. The  
 heart of this is a very hard tough wood, which our farmers find useful for many  
 purposes. It will bend into almost any form, without breaking especially the  
 part of the body of a young tree. It is white & moist to it. They are much used  
 in bows, oars & axe handles. But it soon decays when exposed to the weather. The  
 heart of this tree has a thin smooth shell, & is of very little value. The inner  
 bark is useful for making a yellow dye. The megash is so called on account of  
 the roughness of its outer bark, which hangs in shreds on the surface of it.  
 This has a small oval nut inclosed in a very thick shell, but it is not esteemed

its timber as the other sort. The nut naturally a thin shell to the  
 as but the first hard frost causes them to drop. The best Walnut trees  
 said to grow naturally in Virginia, & particularly on the banks of the Ohio  
 as it is so the better it receives a good white; is hard & heavy & is much prized  
 its beautiful brown colour, & used in all sorts of cabinet work. We have another  
 sort not indigenous, but the only one that is much cultivated in this country. It  
 is by the name of the English Walnut. The fruit is much larger & better than that  
 either of the other sorts. In its tender state it is used in kitchen for sauce. But the  
 it is too wild for this use when they are come to their full growth. — I moist  
 any soil seems to be the best situation for Walnut trees. They are not well adapted  
 to be cultivated in nurseries. They bear transplanting, but young seedlings  
 are very young. The roots should not be wounded, but it is not easy to  
 put it in taking them up, as they naturally run deep. As the transplants  
 are not so good fruit, they grow short & thick & are not fit for timber. There-  
 fore he who wishes to cultivate a grove of them for timber, should plant them out  
 the piece where he wishes the tree to remain. There is a considerable  
 the in the ~~the~~ limbs of Walnut trees they do not admit of much burning. The  
 it is apt to enter at a wounded limb & cause it to rot. (Penn. Germ. Dictionary)

Clap. 10. Indica.

Calmia. R. latifolia. Trin. Broad-leaved Laurel. White green. Callio tree.  
 is. This is the largest of the several species of Calmia, growing to the height of seven  
 eight feet in swamps & moist rocky pastures. The flowers are white tinged with  
 green & yellow. The wood is hard & compact, & the Indians are said to have made  
 small dishes, spoons & other utensils out of the roots. They are said also to have used  
 decoction of this plant to destroy themselves. The leaves are highly poisonous to hor-  
 ses, but does not prevent eat them with impunity. The flesh of these birds are  
 considered poisonous by eating. The leaves or berries eaten in the winter, & occasion  
 death of some persons who ate of this flesh.

From an experimental & original dissertation published in Philadelphia in 1812  
 Dr. Thomas we find that a decoction of this plant, made by putting one  
 ounce of the leaves in eight ounces of water, boiling it down to four ounces, and  
 the decoction of eight weeks continuance. The dose at first was that of six

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it was well cured by washing the part with the decoction. The scalp head  
capitis was also cured by washing the head with an ointment made of the leaves  
of the plant. Dr. Barton bears testimony of the efficacy of this ointment in the time  
of the eruption of the head of the plant in proof spirit is an active remedy.  
Some kinds of rashes & water eruptions have been known to yield to the use  
of an infusion of the leaves of the plant.

Clasp 10 & 11

Lactuca. L. Lactiva. Ang. Common Garden Lettuce.  
This plant is perennial & valuable as an article of diet abounds with  
milk which supplies all the characteristic properties of opium & may be  
procured from it in sufficient quantities to supply any labor bestowed upon it for  
this purpose. The Laudanum made from the spirit of the lettuce exceeds the best  
in force & frequency & produces generally the same results as the common  
Laudanum. It has been used with advantage in allaying the pain of chronic rheu-  
matism & colic; in checking the frequent stools accompanying diarrhoea;  
allaying cough &c. & for that the plant may be advantageously cultivated  
for medical purposes, especially as the spirit is procured after the period in which  
the plant is useful for the table. (Civ.)

Lactuca. L. Clavata. L. Divosa. Ang. Wald or stone lettuce  
This plant is perennial, growing spontaneously on outcrops & beside fences  
flowering in August & September. The stem rises to three or four feet, & is thick  
on its lower end. All the leaves are horizontal & greatly indented; they are  
rigid & their midrib projects on the back part. Flowers branched & expanded  
floral leaves similar to the stem leaves, but smaller. Biflorous numerous  
pale yellow, opening about seven & closing about ten in the forenoon  
This plant affords a large quantity of milky juice, which is milk like spirit  
red & bitter. It resembles opium in some of its effects, its narcotic grows like  
of the happy medicinal in its juice. An extract prepared from  
expressed juice of the leaves of this plant gathered when in flower, is  
found in small doses in doses. In a basis of long standing, proceeding

and obstructions, it has been given to the extent of the M. M. M. M. M. 231  
is said to agree with the stomach, to quench thirst, to be gentle & restorative, how-  
ever chronic, & somewhat diacritic. P. in total distention is allowed dur-  
ing its operation. Dr. Collin of Vienna asserts that out of twenty four desper-  
ate patients, all but one were cured by this medicine. Ibid.

### Clap 9. Order 1.

Sassafras. L. Sassafras. Ans. Sassafras.

This tree is a native of North America, & is cultivated in Jamaica. The  
wood, root, & bark are used. They have a moderately fragrant smell & a metallic  
astringent taste. Sassafras is a warm aperient & strengthening medicine; it has often  
been successfully given in the form of infusion & decoction for improving the tone  
of the stomach & bowels, in persons whose humours are in a vitiated state. The es-  
sential oil is highly stimulating & heating, & must be given only in very small  
doses, being a mild & diuretic remedy. The bark is useful in intermittents.  
The oil is said to be efficacious, applied externally to wens, &c.

Some Boies rain water, or spring water to the juice of sassafras & let it stand until  
it becomes very mucilaginous or copious, & it makes an excellent wash for chronic in-  
flammations of the eyes. (L.M.)

### Clap 14. Order 1.

Lawenda. L. Spica. Ans. Lawenda.

Lawenda is a well known, small, shrubby, perennial plant, a native of  
the south of Europe but frequently cultivated in our gardens for the sake of its per-  
fumes. There are two varieties. The flowers of both have a fragrant & sweet smell  
& a warm pungent bitterish taste; the broad leaved sort is the strongest in both re-  
spects & yields in distillation twice as much essential oil as the other; it is also  
the most specifically heating; hence in the southern parts of France where both kinds  
are wild, this is only used for the distillation of what is called oil of spike. The  
narrow leaved is what is commonly sent us in our gardens. Lawenda is considered  
a warm stimulating astringent. It is principally used as a perfume. (L.M.)

Ure. An indigenous perennial plant grows in meadows & pastures, or roadsides, etc. It produces a yellow flower which flows from April to September, & has the remarkable quality of expanding early in the morning, & closing in the evening. The root, leaves & stalk contain a proportion of bitter milky juice which possesses considerable activity. Its more immediate operation is to remove visceral obstructions, & promote the urinary discharge; the dose prescribed by Boerhaave for this purpose is four ounces to be taken three or four times a day; & its experience has corroborated its great efficacy in chronic & other complaints connected with a disordered state of the first passages.

By modern writers Landolina is highly extolled in the treatment of chronic inflammation of the liver or viscidulous kidneys, that open & also in several chronic obstructions of the stomach, in a dose of half a drachm of the extract twice a day. It has a strong decoction of the fresh expressed juice, in doses of from two ounces to four, two or three times within the twenty four hours, will, however, be found to be more active preparations. Ure

Clap 20. Bales 5.

Cypha latifolia. Naranta Arundinacea. Ure. Cat tail plant. Indian arrowroot.

Ure. This plant was originally the production of the East Indies, & is now cultivated in Jamaica & the West India Islands, & in South America. Arrowroot grows with large, salp. & terriosa, in its general nutritious quality, but is reckoned to excel the others in affording a much larger proportion of mucilage than any vegetable hitherto discovered. Hence it is of superior utility as an article of diet for the sick & convalescent, & particularly in cases of anorexia, either in the general habit, as in hectic fever & consumption, or in particular sections, as in affection of the urinary passages, urinary inflammation, stone or gravel; & also in affection of the bowels, as in dysentery & cholera. It furnishes also an excellent remedy for the bowel complaints which so commonly prevail in the United States, during the warm season.



chiefly among children. The jelly is made by adding to a Gallon 239  
of the Rowland root as much cold water as will make it into a soft paste  
in pour on boiling water stirring it at the same time briskly until it become  
clear jelly which may be seasoned with sugar or a little wine or lemon  
juice may be added. For children it may be prepared with milk, & if it be mixed  
with the stomach the addition of a little animal either milk or victrol that effects  
is proved in the form of jelly the arrowroot powder is far preferable to  
any of the farinaceous substances & affords a delicate & very good food for con-  
valescent patients. According to Dr. Wright of Jamaica a decoction of the root  
makes an excellent gelatin in acute diseases. In a pamphlet published in  
1796. by Mr. F. Nichol we find the culture of this valuable article highly rec-  
ommended to the West Indian planters, & the new African colonists, as an object of  
commerce, & the most eligible substitute for starch made of wheat. By the  
theorist computation eight million of pounds weight of starch are made annu-  
ally in Great Britain alone from that valuable grain. It appears also by the  
same authority, that the arrowroot starch is of the finest quality & that one  
pound of it is equal to two pounds & a half of that prepared from wheat. Fortu-  
nately the arrowroot has of late years been introduced into the states of South  
Carolina & Georgia, & by practical experiment it is ascertained that the soil of  
the western coast is well adapted to it. John Cochrane Esq. an opulent planter  
St. Simon & Campbell Esq. of St. Pauls island, have it is understood suc-  
ceeded in their attempts as to afford the most flattering encouragement, that the  
most ardent wish may be added to the numerous voices of wealth enjoyed by our  
West Indian planters. The latter gentleman says that a spot of land on his plantation  
did arrowroot last year in the proportion of 1840 pounds to the acre. No production  
is presumed can promise a more ample remuneration to stimulate the planter  
attempt its cultivation; & when it is considered that in proportion to the  
increase the demand will be extended, it claims as a rival staple with  
cotton, may perhaps be anticipated. (H)

May 13. 1841.

Sanguinaria. *S. Canadensis*. Aug. 13. on Root. See on

This is a common plant in the United States & is called also, red root India  
 paint tumour. The leaves are roundish & deeply indented. stems naked, sup-  
 periorly simple flowers, blossoms white. It grows in rich woodland, & flowers in  
 April. When the fresh root is broken a juice issues in large drops resembling  
 blood. The Indians used it for painting themselves, & highly esteem it for its me-  
 dicinal virtues. It is emetic & cathartic & cathartic, but must be given with caution.  
 An infusion of the root in rum or brandy makes a good bitter. If it be planted  
 in rich shady borders, it flourishes well in gardens; & the large leaves & blossoms  
 make an agreeable appearance soon after the frost is out of the ground. (Cutler)

From an inaugural dissertation on *Sanguinaria* by Dr. Downy of Philadelphia  
 1803. the following useful information is obtained. The root is from one fourth  
 to half an inch in diameter, from three to four inches long, sending forth one  
 or more stringy fibres two or three inches long: a coloured liquor is thrown out when  
 the root is broken. The stalk is six or eight inches long, & the thickness of a  
 quill. The leaves are cordate & lobate. There is but one leaf to a stalk; on  
 each lobe, one large fibre, of a light yellow colour, may be seen running from  
 the stalk, & many smaller ones branching from it in all directions. The  
 powdered root in doses of 15 or 20 grs. is powerfully emetic. Eight grains is a  
 mild dose, & is but little inferior to ipecacuan. It contains a large proportion of  
 gum, some resin, & extractive matter. The first & last are the most active parts.

The leaves & seed of the plant are powerful & diffusible stimuli; promote  
 sweat, & are given in Maryland with that view to horses, to promote the shedding  
 of the coats. A tincture of the roots is used to prevent the intermittent fever; & a  
 decoction of the roots to cure the dysentery. In one case it operated powerfully  
 upon the uterus, & produced abortions, hence it might be useful in fe-  
 male obstructions. — The seed are said by Professor Barton, to pos-  
 sess nearly the same quality with those of stramonium. viz. they induce  
 some delirium, dilated pupil &c. A delirious property exists also in the leaves

Class 14. No. 1.

*Sida. L. Citrullus. An. Balm.*

Balm is much cultivated in our gardens, on account of its aromatic smell, & is used for the lemon, & its fragrance & flavor is so sweet that it is principally employed in the form of a watery infusion, which is drunk in the name of tea; & in acute cases when mixed with the juice of lemon it is an useful diluent.

Class 5. Ord 1.

*Tab. L. Nicotiana. An. Tobacco.*

The tobacco plant is a native of America where considerable quantities of it raise for exportation. The leaves have a strong disagreeable narcotic smell, & a burning taste. The active stimulant of tobacco is an essential oil, native to such animals are almost insensible when when wounded by a needle dipped in it; & a few drops of this oil taken internally have operated as a fatal poison. Some pernicious effects of smoking the leaves of this noxious plant may be easily imagined. The effects of tobacco are those of a powerful narcotic. At first, with some nausea & vomiting, it reduces the force of the circulation, & occasions extreme weakness, debility, with insensibility, & cold sweats. As a diffusible stimulant the use of tobacco thrown into the intestines was at one time employed in the cure of cholera morosa, a practice now exploded as pernicious. It is employed with more advantage in ileus & incarcerated hernia, tho' it requires to be managed with much caution. The watery infusion of the strength of two drachms tobacco to one pound of water, is a more convenient mode of exhibiting it as an enema. The smoke received into the mouth relieves the pain of toothache, its narcotic power, or by exciting a profuse salivary discharge. Reduced to powder it proves an excellent cathartic & stimulant, when snuffed up the nostrils. In infusion it is also applied externally for the cure of pruritus, tinea & other cutaneous diseases.

An inaugural dissertation by Dr. Bracken of South Carolina, published by the author & sets that the evident operation of tobacco on the system is that of a narcotic, & emetic, a cathartic & a diuretic. Hence the property of it is in a variety of diseases. In case of acute & slow diseases effect is a

230 *nicotiana glauca* is an invaluable remedy. As a diuretic it is excelled by few if any of our indigenous plants. Dr. Fowler by extensive experiments, has proved it to be a powerful diuretic in cases of dropsy & dysuria. He prescribes in the form of infusion; about eighty drops, which he considers to be the average dose for an adult, or to begin with sixty drops & increase the number by five, eight or ten at a time, to one hundred or till their obvious effects on the system the proper dose shall be ascertained. The properest time for administering the medicine, are two hours before dinner & at bed time; it being observed to discharge the most with the stomach, in the morning fasting.

In cases of nephritis, calculus, or gravel, the infusion was given with astonishing effect. In many cases of asthma Dr. Fowler found the infusion to prove a good expectorant, & to afford great relief. The decoction of tobacco exhibited in cases of colic, procured relief almost instantaneously, after other medicines had proved ineffectual. One ounce of the infusion, in half a pint of milk or whey, is the medium dose in the form of injection, & for an adult of an ordinary constitution. This is to be repeated, as the strength of it increased or occasion may require. — In the cholic passion, & in hemie. Both the infusion & smoke of tobacco have been employed in the form of injection with the happiest effects. In tympanitis subintestina strong cylinders of tobacco infusion have greatly relieved the patients. As a vermifuge it is deserving of being held in high repute, either taken internally, or according to Professor Barton the leaves are to be pounded with vinegar & applied in the shape of a poultice to the region of the stomach, or other part of the abdomen. In consequence of this application worms are often discharged after powerful anthelminthics have been exhibited internally in vain. — In cases of oblique constipation of the abdominal viscera, the infusion of this medicine has been administered, & often with immediate relief by occasioning a steady evacuation of the bowels in liquid form. In the tetanus or lock jaw, injection of this infusion has been used with success. They not only produce evacuation from the bowels which are generally obstructed & constipated, but from

This remarkable power occasion a relaxation of the violent spasms given in this disease. Dr. James Currie's Liniment has employed with much success a decoction formed chiefly of tobacco, applied to the tubercles corchis about 2 or 3 hours before the expected accession of the moraxym. Both in epilepsy, & obstinate intermittents, & in two cases of general convulsion by means of the decoction in the course of 24 hours, he performed cures altogether surprising & unexpected. This

Class 12. Bales.

Prunus P. Prunus Virginiana. Wild cherry tree. Plum-Cherry. Dog cherry.  
The common wild cherry tree is often found in woods & hedges, & is associated with the trees of the forest, growing to the height of forty or more feet, & of very large size. It is not so produced from the stone of the garden variety, which is raised by birds. The timber is capable of receiving a fine polish, & is used by turners & cabinet makers, for ornamental boxes. The gum which exudes from the tree is said to be equal to gum arabic. This tree produces in autumn a small bitter cherry, black & very tart, which is much used for food by birds who frequently become intoxicated from eating them. They are also injured in brandy by the common people on account of their pleasant aromatic flavour which they impart to the liquor. The bark of the wild cherry tree is powerfully tonic, & has been frequently substituted for the Peruvian bark, with great success. It is slightly narcotic & commonly produces drowsiness in those who take it. From the experiments of Mr. C. Morris of Virginia it appeared that the bark of the trunk is more powerful than the bark of the trunk. It has been very useful in dyspepsia & in consumption of the lungs. The Indians, it is said, use the bark in the cure of syphilis. Very excellent effects have been produced by washing all conditioned ulcers, with a decoction of the bark, & the same has succeeded on the limbs. The leaves of this tree are poisonous to certain animals - While this valuable tree abounds in the United States we export annually more than in sending thousands of dollars out of the country for the Peruvian bark. - Cherries that are raised, are according to Dr. Waltham an

240: collect a rich of domestic medicine in the true severity, in putrid fever,  
& the dysentery; as likewise to those persons who are liable to obstructions, in  
the alimentary canal. Nor will they be found less salutary to constitutions  
whose bile is vitiated, whose stomach is troubled with foul excretions, &  
who are affected with an offensive breath; all men persons should eat them  
freely, particularly in an empty stomach. For similar reasons Prunes  
derive from an excellent article of diet, in acute & in inflammatory  
diarrhoea: when they should be used both in substance & decoction which  
are equally cooling & antiseptic. Ibid.

Prunus P. Domestica. The French name is, Plum tree.

Use. Numerous varieties of prunes or plum trees, are cultivated in gardens  
the fruit of which when dried, are called prunes. Great quantities of the  
dried fruit are imported from the continent of Europe, but the French prunes  
are thought the best.

They contain much mucilaginous & saccharine matter & their  
medical effects are, to abate heat, & soothe down the belly, & to  
promote peristalsis by lubricating the passages, & softening the excrement.  
They are of considerable service in costiveness, accompanied with heat or  
inflammation which the more stimulating cathartics would tend to aggravate.  
When prunes are not of themselves sufficient, their action may be  
promoted by joining with them a little rhubarb or the oil, to which  
may be added some cruminae independent to prevent their occasional  
flatulency. Ibid.

Clap 5. Order 3.

Prunus N. Capellinum. Ang. narrow leaved sumach.

Use. narrow leaved sumach grows naturally in most parts of the United States  
rising to the height of six feet in a rich, gravelly soil. The berries are very acid  
& are marked with a greyish powder of an agreeable acid taste. Ibid.



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V. glaberrima. Pennsylvanian. Common on a plain land  
 vine to the height of eight or ten feet. The leaves are feathered and have  
 on both sides a change to a beautiful red in autumn. It flowers in July. The  
 seed is arranged like the flowers, and is covered with the white powder of starch  
 and fat.

The two grains which compose it are considerably striated. A solution of the  
 vine mixed with honey is sometimes used for a gargle in the throat, & for cleaning  
 the mouth in putrid givers. They are also recommended as useful in several of the  
 the leaves are found a valuable substitute for oak galls, in dyeing a ma-  
 ring ink they give a deep & permanent black. The plants which this part may  
 be used as a succedaneum for oak bark in tanning especially the white glove leather.  
 The wood of this tree which grows wild in every part of the United States, is  
 very beautiful bright yellow colour, & has been made into stuff boxes & the top  
 of the cup by way of curiosity. The leaves, berries & seed have an acrid string-  
 ent taste, & are very efficacious in gargles for the canker & inflammation of the  
 The bark of the root bruised & boiled in milk & water, & a little indiarose  
 thrown into it, while cooling, makes an excellent application for burns, & is said  
 to prevent an ischa. Nature. Physicians

Rhus Radicans. Ang. Poison vine. Poison creeper. Rhus glabra  
 The Poison vine, has a slender ascending stem, & frequently climbs up to the  
 top of our tallest trees. The flowers, which appear in June, are produced along the  
 whole course of the smaller branches. They are small & of a light yellow colour, &  
 have a delightful odour. Thacher. Dr. Dupreman accidentally discovered in  
 the Rhus radicans of Linnaeus, or the Toxicaria of Tournefort certain valu-  
 able qualities. Having observed that a young man, who had been troubled for six  
 months with a tetanus in his wrist, was suddenly cured by the bark of the Rhus  
 radicans he determined to try the effect of it in other cases, & after several  
 experiments he has ascertained its efficacy in destroying ring-worms & in  
 curing paralysis. Med. & Phys. Jour. vol. 10 p. 250



and a solution of corrosive sublimate is used to answer the purpose of  
 a judicious cure. — One case of the remarkable effects of this poison has  
 been under the observation of the compiler of this volume. The patient having in-  
 tentionally exposed of the juice from the leaves of a species of oak, was soon after  
 attacked with violent inflammation, eruption & swelling of the face, with  
 redness & extreme pain. The whole surface of the body swelling, the head  
 & limbs exhibited the appearance of a most malignant kind of small pox.  
 His obstinate were the dangerous symptoms that with the loss of his hair and nail  
 it was such we is before his cure was effected. — Dr. Rossford in his excel-  
 lent manuscript dissertation on the rhus venia, rhus radicans, & rhus glabrum  
 declares his full conviction, after many judicious experiments that the rhus  
 venia is the true varnish tree of Japan described by Kempter. He found that  
 the greatest quantity of juice was obtained from incisions made in the tree about  
 the middle of May. Murrhey, & others are also of opinion, that the Lac lacina was  
 which is much celebrated may be obtained from our native rhus. It is a subject  
 not without some attention. — A singular instance is related in the Medical  
 journals, of the poisonous effects of the rhus venia upon a woman of bus, the  
 whole of which she has after having attached themselves to the branch were found  
 a red & this body turned black & swelled to nearly twice their natural size. (Ed)

Leaf 13. Order 1.

Rose. R. Damascena. The Damask rose, its fragrance & elegance has  
 been justly term'd the queen of flowers & been its fragrance & elegance has  
 made it the ornament of every garden. It is sometimes call'd Dutch Rindus hand  
 rose. The Damask rose, yields on distillation a small portion of otto rose oil, to-  
 gether with a water which possesses the odour & taste of the roses, & are generally es-  
 timed for the agreeable flavour they impart to culinary preparations & also to cordons.  
 A valuable perfume is obtained from the flowers by distillation, call'd otto or es-  
 sence of roses. The true otto of roses is sold in the East Indies, at the exorbitant  
 price of twenty guineas & upwards per ounce. It is doubtless the most elegant  
 perfume in vegetable nature; as a single drop impart its fragrance thro'out  
 a room or dwelling & perhaps other less agreeable odours. (Ed)



*Hyacinthus*

*Blue bell hyacinth*

Clas 6. Ordes 3.

Rumex. R. Aquaticus. Ang. Water Dock.

Use. It grows in peat moorland, wet ditches, & on the sides of rivers, & in shallow waters. It flowers in July & August. & is succeeded by large seeds. This plant affords a medicine of considerable efficacy when applied externally, as a wash for spongy, putrid gums, throats when pulse and have been found excellent for cleaning the teeth. These roots are of a bitter astringent taste, & have been employed for the cure of scorbutic & cutaneous disorders, whether administered internally, or applied externally in ointments, cataplasms, & fomentations. Decoctions of the leaves are likewise efficacious, & have been taken with advantage in rheumatic pains, & chronic diseases occasioned by visceral obstructions. The dose usually given is a decoction of half an ounce of the fresh roots, or from one to two drachms of them in a dry state.

The Indians, says Dr. Cullen, used the root of water dock with great success in cleaning foul ulcers. It is said they endeavored to keep it a secret from the Europeans. — Dr. Withering says he saw an ill conditioned ulcer of the mouth which had destroyed the palate, cured by washing the mouth with a decoction of this root, & drinking a small quantity of the same decoction daily. (Peach)

Clas 10. Ordes 1.

Ruta. R. Graveolens. Ang. Rue.

Use. This is a very small shrubby plant met with in gardens, when it flowers in June holds its green leaves through the winter. It has a strong unpleasing smell, & a bitterish unctuous taste; the leaves when in full vigour, & extremely acid, in so much as to inflame & bite the skin if much handled. Some writers on Materia Medica have retained a very high opinion of the medicinal virtues of this plant, & it is still retained in the Pharmacopoeia. It has been considered as powerfully stimulating, attenuating, & detergent, & since in cold phlegmatic habits, it quickens the circulation, dissolves viscid juices opens obstructions of the excretory canal, & promotes the fluid secretion. Boerhaave is extravagant in his praise of the essential oil, & distilled water of rue for their efficacy in promoting sweat & perspiration, & for the cure of the hysterical passion & of epilepsies, & for expelling worms. In modern practice, rue is not regarded as possessing much power as a remedy. (Peach)

Salix. S. Alba. Ang. White willow.

Use. The species or varieties of the willow which have been mentioned by botanical writers are very numerous; & it is very probable that the bark of them all possesses properties in many respects similar. In 1768 Mr. Stone an English druggist, presented a paper to the Royal Society, on the beneficial effects of the salix alba or white willow in intermittent fevers; & Dr. Cullen on this authority, & from the sensible qualities it possesses recommends it in his Materia Medica. as a substitute for cinchona. Mr. Stone gathered the bark in summer, when it was full of sap dried it by a gentle heat, & gave a drachm of it powdered every four hours. In a few obstinate cases he mixed with it one fifth part of cinchona. Some judicious Physicians here, says Dr. Cullen, made trial of the bark of white willow, & recommended it as a valuable substitute for the Peruvian bark. They have used particularly the bark of the root. (See)

Clap 3. Order 2.

Secale. S. Cereale. Ang. Rye.

Use. Rye is subject to a disease especially when a hot summer succeeds a warm spring; the spurious substance thus produced, in France is called ergot, from its resemblance to a cockspur but in England is called horned rye or horned. Bread made of this kind of rye has a nauseous acid taste, & produces numerous fatal diseases, as spasm, extreme debility, & mortification of the extremities. Various periods subsequent to the year 1596 the most alarming & destructive epidemics were occasioned among the poor in France & England by the use of bread of such damaged grain. Horned rye is said to have been equally fatal to brute, & fowls when fed with it by way of experiment.

Rye is affected by the disease in this country similar to that of the particularly summer rye in low wet situations. The singular production called ergot is found projecting from among the leaves of the spike, or ear; it is a long hooked excrescence resembling the spur of a cock pointed at its extremities, of a dark brown colour externally & white within. Some spikes are occupied wholly by ergot, while others two or three only interspersed with genuine seed of rye.

The medicinal properties of this extraordinary substance were first announced

the public by Dr. John Stearns of Swanton county in a letter to Dr. Haly 24<sup>th</sup>  
Knox in which the article is extolled for its power ad partum accelerandum.  
It is now satisfactorily ascertained that ergot is capable of exciting a specific action  
the uterus, & of augmenting the power of this organ during the efforts of parturition.  
In all ingurg & laborious cases it is found to be an invaluable medicine, speedily in-  
creasing forcible pains, & greatly expediting delivery. For obvious reasons however it is  
wise to caution against employing this powerful parturient in cases of partial abor-  
tation. In the form of powder it is given from five to ten or fifteen grains,  
it has sometimes been found more active in the form of decoction, half a drachm of the  
powder being gently boiled in half a pint of water; one third may be given every twenty min-  
utes, until proper pains shall have commenced. A large dose of decoction or of *Subri ad  
partum accelerandum* will excite nausea & vomiting. No example of ergot having induc-  
ed deleterious effects, has come to our knowledge; but there is much reason that it is  
capable of producing abortion at any period of pregnancy.

We have now the satisfaction of deriving instruction on this subject from the  
experience of some practitioners of eminence in our own metropolis. A writer in the New  
England Medical Journal Nov. Vol. 1. asserts that it has not appeared to relax the rigid-  
ity of the muscular fibres, "but it has almost uniformly increased the efforts of the uter-  
us to expel the foetus." And also that occasions have occurred authorizing a caution of  
the highest importance in practice. The powerful & continued efforts of the uterus,  
from the effects of ergot, prevent the retreat of the child's head after being advanced  
& that the increasing pressure has in some instances occasioned the death of the child.  
At this circumstance therefore have its due effect, & in due the utmost precaution in  
the administration of this powerful article. In one case of amenorrhoea, Dr. Beckman  
administered one drachm of ergot in decoction; bearing down pains immediately ensued  
the suppression was the next day removed. It has been successfully employed, on  
similar occasions by other practitioners. However valuable a medicine it may appear, the af-  
firmation is from the most credible source that ergot has often proved one of the  
most efficacious remedies in menorrhagia in all its stages; & moreover it overcomes  
in a remarkable manner the *proprio uterina* following the relaxation of the ele-  
ments in parturition. — In two instances ergot is stated to have been administered dur-  
ing the early stages of pregnancy. In one case, about four drachms were taken withy

246 a few days, the consequence was regular gripping down pains, resembling the several throes of parturition; & these recurred with every repetition of the medicine, yet on examination, the os uteri was not much dilated. In neither case was the actual term of gestation interrupted by the operation of the medicine.

The fact has long been known among our farmers, that rye itself produces a quality of proclivity abortion in females of the animal tribe & they carefully withhold that grain from such, during their periods of gestation. Ibid,

Clap 3. Order 2

Triticum. S. Triticum. Ang. Wheat.

Use. Wheat flour consists principally of gluten, starch, albumen, & a sweet mucilage. It is the presence of gluten that characterizes wheat flour; & on the due admixture of it with the other constituents depends the superiority of wheat flour for making bread. Bread is not only one of the most important articles of nourishment, but is also employed in Pharmacy for making Cataplasms & giving form to more active articles. An infusion of toasted bread has a deep colour & pleasant refrigerant taste; & is an excellent drink in febrile diseases, & in nausea & debility of the stomach; & also in chole & morbus; examples are related of several cases of this kind cured by it, without the aid of any other medicine.

Starch. The fecula of wheat forms a gelatinous solution when boiled with water, which is used as a demulcent. It is thus given as an enema in dysentery & diarrhoea, from irritation of the intestines, & is the common vehicle for giving Opium that forms. Ibid.

Clap 21. Order 2.

Fraxinus. S. Acuminata - S. Americana. Ang. Ash-tree

Use. Ash is well known & useful tree natural to this climate; of which we see two sorts, the black, the white, & the yellow. The body of the black ash is easily separated into thin slips by bruising it with a beetle, & is therefore much used for brooms & baskets. The white ash is of two sorts, or varieties, one of which is a stiff, light & durable timber. It is therefore highly esteemed by the farmers, & much used for ploughs, & axes, & many of the tools used in agriculture. That is, the part which grows up high land. But implements made of this wood should not be much exposed to



ashes. For it soon rots if it be not kept dry. — The bark of the ash is used 249  
many to make vessels for storing of grain, &c. They are light to handle,  
efficiently strong, & extremely durable. — The season of felling ash for timber  
is from November to February. If it be cut in the wrong season, the sap part  
it will be destroyed by worms; & turned to what is called powder pot. (See Dict)

### Clap 21. Ord. 2.

Cucumis. C. Sativus. Ang. Cucumbers.

Cucumbers, a cold fruit, which is pleasant to the taste of most people, & much  
used by those who find themselves able to digest them. They are rendered wholesome by  
pickling. — The method of growing them is simple & easy. They should not be planted  
ill after Indian corn; for the heat degree of foot entirely destroy them. The dung of swine  
should be put under them, which makes them grow more rapid than any other manner  
I have ever tried. Some steep the seed & cause them to sprout before they are planted  
But I have never found any advantage in it. It is not amiss however, to wet them  
a little & cover them with powdered root. — Mr. Miller thinks the seed should not  
be sown till they are three or four years old. Few plants are enough to stand in a hole  
together; therefore when they get into crop, half they should be thinned to this number.  
The vines should be so conducted as to interfere as little as possible with each other. They  
do wish to raise them at all seasons of the year, may consult the gardeners Dictionary  
I have known surprising quantities of cucumbers raised from tubs. The method is  
to take a very tight barrel tub, fill it up to the bung with stones, then a little  
straw & earth over the straw enough to fill the barrel. Fill the lower half with  
water. Instead of letting it steep thus, the earth it should be passed thro' a tube  
laid in the earth for that purpose as often as more earth is wanted. The bung  
could be kept out & the water kept as high as the hole by repeated waterings.  
The plant lying so high will be out of the way of insects, which is a great ad-  
vantage; & they will not be hurt by drought. The plants should be a little  
sprinkled however, with water once in a while if the season prove  
very dry. Dean's Garden Dictionary, page 95.

Allium. A. Schoenoprasum. Ang. Chives or Chives.

Chives or Chives a perennial species of onion of a very small size, seldom growing a foot high. The roots are but little bulbs, & they grow in tufts. The way to make them increase fast is to divide the tufts into very small parcels. - Another kind are called French chives. This increase is more rapid. Both kinds are up early in spring, & are much used in salads. (Gid -

Clap 12. Order 11

Cactus. C. Opuntia, Ang. Prickly Pear.

Use. The Cactus Opuntia is very tall erect, & large, & strong enough to bear the weight of a man; some are seven or eight feet high: the whole plant or tree seems to be formed of great oval compressed leaves, or articulations; those near the earth continually increase, making & indurate as the tree advances in years, & at length lose their bright green colour & glossy surface of their youth, acquiring a ligneous quality, with a whitish scabrous texture. Every part of the plant is nearly destitute of aculea, or those fascicles of barbed bristles which are in such plenty on the common dwarf indian fig. The cochineal insects are feeding on the leaves. The female of this insect is very large & fleshy, covered with a fine white silk or cottony web, which keeps always moist or dewy, & seems designed by nature to protect them from the violent heat of the sun. The males are very small in proportion to the females & but very few in number: they have each two short, yellow wings. The large polypetalous flowers are produced on the edges of the last year leaves, & are of a splendid yellow, & are succeeded by large pear-shaped fruit, of a dark livid purple when ripe: its pulp is charged with a juice of a fine transparent crimson colour & has a cool pleasant taste, somewhat like that of a pomegranate. Soon after eating this fruit, the urine becomes of the same crimson colour, which very much surprises & affrights a stranger, but is attended with no other ill consequence. On the contrary it is esteemed wholesome, tho' powerfully diuretic. (Bast

## Clas 20 Ordo 4.

Urtica. M. Alba. Ang. Mulberry.

Mulleins, a well known tree, the leaves of which are the proper food of silkworms. For this that from that bear a black fruit are preferred. (Some say the white). According to Mr. Mils the male & female organs of generation are commonly on the same tree but sometimes a tree will have only male flowers. It would be right for us to propagate these trees. It might be done with the greatest care. We may do it by this seed, or by layers, cuttings, or slips. If we are not disposed to make use of them for the feeding of silk worms they would pay for the trouble of rearing them by their fruit & their timber. They run out our climate & grow rapidly at least in Connecticut & in the western parts of Massachusetts. — Possibly the time may come when we may be glad to make use of our own in this country. If this should happen, it will be regretted if there be no trees in the country from which the worms can be fed. They will grow well in deep soil which is moderately rich. (Farm. Dict.) —

## Clas 10. Ordo 1.

Graphalium. G. Marylandicum. Ang. Common Life Everlasting.

Use. It appears to me that this plant is a kind of cudweed. — Life everlasting grows about a foot high, the flowers are whitish; they emit an agreeable odour. — An infusion or decoction of the tops is said to be good for ulcerations in the mouth & throat. — A cataplasm also of the same, has been applied externally for this disorder, especially when seated in the neck. (Stearn's America Herbal) — See my M. M. vol. 1. page 83 —

## Clas 20 Ordo 2.

Ulmus. A. Scrotula. Ang. Alder.

Use. The alder, or alder tree, is properly speaking, another species of the Canada birch. When suffered to grow in an open situation it has an agreeable appearance. It never any soil is suited for pasture, the alder should by no means be encouraged, as it poisons the herbage & renders the soil moist & rotten. — There are several species of alder peculiar to the United States. The bark is used by tanners & leather dressers. It dyes a yellow; & with a little sulphur a yellowish gray, very useful in the dyeing of shadings of flesh in tapestry. The shoots cut in March will dye a cinnamon colour; & a fine tawny, if they be dried & powdered. The fresh wood yields a dye the colour of rapped stuff. The catkins dye green. The bark is also used as a basis for black; an ounce of it dried & powdered, boiled in three quarters

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ter of a pound of water, with an equal quantity of logwood, with solution of  
copper, tin, & bismuth, six grains of each, & two drops of solution of sulphate of  
iron (copperas) will dye a strong deep bleu de Paris, or Paris mud. The leaves have  
sometimes been employed in tanning leather. The whole tree is very astringent.

The alder tree thrives in swampy ground. The wood of the tree is in great esteem  
in Europe for machines. The cog, for mill wheels formed of it are deemed superior to any  
other. It is commonly used for bobbins. It resists water powerfully, & hence is of great  
value for pump tubes, pipes, drains, conduits to reservoirs, pipes under water, & all  
kinds of wood work, kept constantly wet. In Flanders & Holland it is raised for this  
purpose. — The alder is highly useful as a medicine. I have heard of a well  
authenticated instance of the efficacy of an infusion of the cathartics, or cancells ta.  
run internally, having effectually cured a boy of sore eyes, which apparently pro-  
ceeded from a scrophulous cause, after a variety of medicines had been used without  
effect. A decoction of the bark of black alder & dogwood (*cornu florida*) is a com-  
mon & successful remedy in the United States for intermittents. The root of the  
*virginiana tubifera*, or tulip poplar tree, & of the sassafras are sometimes used  
with the alder & dogwood. Medical gentlemen who practice in the country would  
render a service to the public by stating the proportion of each remedy, which produces  
the best effect. Dom. Luc.

Clap. 14. Order 11.

Stachys. *S. Arvensis*. *S. Palustris*. Ang.

Clap. 10 Order 1

Andromeda. *A. Paniculata*. Ang. White bush. *A. Calyculata*. Leather leaf. Porro-  
tu. Indian pipe stem. Wickia.

Use. An extensive genus, many species of which abound in the United States, they occu-  
r in kinds of similar soil & situation of the earth in the old continent. The white  
berry is the most common trivial name in the United States for all the species,  
since they bear no berries, & resemble the white liberty bushes. They are all hard  
living shrubs. The *A. paniculata* of Bartram, or Indian pipe stem, is the most  
beautiful. It is an evergreen. The Creek Indians set a high value upon the

as old. For making this pike stems been very strong & upon limits  
feet long. Dr. Barton informs us that a decoction of the Amariana, or Broad  
and moon-wort, is used as a wash in a disagreeable ulceration of the feet attended  
with an intolerable itching, which is common among the negroes of the Southern states  
plant is there called "wickie" It is suspected to be poisonous, & Choisy says that  
is hurtful to sheep; no doubt he spoke from the information of our farmers. (ibid)

Clas. 13. Order 13.  
Anemone. *A. Thalictrifolia*. Fr. The Anemone or wind flower.  
Anemone or windflower, is the name of a plant chiefly distinguished on account  
of its beautiful flowers which by the Greeks were supposed not to open till the  
wind blow; whence it has received its original name. Linnaeus enumerates 21 species  
*Anemone Thalictrifolia* grows near the city of Philadelphia in wood & deserves to  
be cultivated for its elegant simplicity. (ibid)

Clas. 11. Order 1.

Asarum. *A. Canadense*. Ang. White snake root. Wild ginger root.  
This plant in a moist shady situation, & may be increased by parting the roots  
in autumn. Too much wet will rot the Canadian root in winter. The juice of the fresh  
root is emetic. The powder of this plant I have known to answer very good effect in ca-  
se of giddiness, unattended by too much fullness. It was used as a snuff. It certainly  
is an active plant, & deserves further trials. (ibid)

Clas. 13. Order 13.

Geranium. *G. Rivalis*. Ang. Purple Avens. Water Avens.  
It grows in meadows & groves of a humid soil; its flowers appear in July. The herb  
root of this species, tho' of inferior efficacy have also been employed in medicine, as well  
by tanners. (ibid)

Clas. 20 Order 19.

Juniper. *J. Virginica*. Ang. Beech.  
It is a large tree growing in many parts of America. The fruit agrees in virtues with  
nuts. The expressed oil of the nuts is called anthelmintic. The dried leaves distilled  
oil destroy worms. Some poor people in Siberia use it instead of butter. The dried leaves  
also in the legs. Captain Cairns informs that a decoction of the berries, young & seeds  
of some members of this family that have been injured by frost. & Dose of the expressed oil of

284 of the root is an ounce, norning & evening, in sugar if most agreeable. (Stans)

Class 5 Order 2.

Beta. Bulgaria. Red But. Beta. Cicla. Scarcity-

Use. This is a plant of which there are few species. - Beta vulgaris the red but the roots of which are large & of a deep red colour. It is worthy of remark that the larger the roots grow, they are more tender; & the deeper their colour, the more they are esteemed. The varieties of this species are the common red but, the trump. rooted but, & the green leaved red but. - The cicla, which grows wild on the banks of the Tagus, in Portugal. It is originally a small white root, but there is a variety of it called by the Germans Runkelbein or the Beta albinima of botanists, the culture of which cannot be too strongly recommended. The stalk of the latter grows to the height of seven or eight feet, & the root weigh from eight to twelve ~~four~~ pounds. This variety of the root of scarcity is the true Mangel-wurzel, which some years since excited much attention in Britain, tho' there is reason to suppose that other species of the but have been mistaken for the Beta albinima; the root of which is white, juicy, & streaked with red fibres: it is sown like cabbage, & to prevent injury to the fibres of the root, the young plants must not be pulled but dug up with a spade; they should then be transplanted on the same day either in raining weather or after sunset, on a rich well manured & well ploughed soil, in rows from sixteen to eighteen inches asunder. Sow thin, & cover the seed an inch only: it will continue in the ground a month. In transplanting the roots are not to be shortened but the leaves cut at the top; then set the plant with a dibble, so that the upper part of the root shall appear half an inch out of the ground. The rows will not arrive at perfection, unless the plants be twice hoed at least & stripped of the uppermost leaves every fortnight, or three weeks. - Sugar & considerable quantities has been obtained from the different species of but. - The bed of but must be  $\frac{3}{4}$  of a yard wide & the plants six or eight inches apart. When they come up about a finger length & is the ground be mowed & transplant them into other beds. - An important discovery lately been announced by Professor Scheer of Vienna, & which promises of great service in domestic economy, especially when sugar is scarce.

and from experiments that but roots afford an excellent nutritive 255  
malt. if they be deprived of the greater part of their juice by pressure, then  
dried, & treated in the same manner as grain intended to be used for that purpose.  
The beer thus brewed was found to be perfectly wholesome & palatable,  
being little inferior to that prepared from malt. Besides the juice obtained from  
the excellent roots may be advantageously converted into sugar.

According to Mr. Rocque, the white but is a most excellent fodder for cows.  
The best way of mowing them is to mow the plants, & give it to them fresh  
during the summer. - The red but is possessed of mild & pleasant qualities,  
& affords but a weak nutriment to the human body. Hence it should not  
be used for supper, by persons of a costive habit; but, tho' it be easily digested  
there is sometimes attended with flatulency; for which reason, it would be  
more wholesome & nourishing to eat the but with other mealy roots, such as  
potatoes, or with those of an aromatic nature, for instance, Parsley, cetera &c.

Class 5. Order 1.

Campanula. C. Rotundifolia. Aug. Round leaved bell-flower.

Use. A genus of plants comprehending 80 species - C. Rotund. produces blue or  
white flowers in August & Sept. Cattle & sheep browse upon these flowers with  
avidity, & they are likewise useful in dyeing. The milky juice of the white flower  
is said to impart a beautiful green colour by the addition of alum. The juice  
of the blue flower alone has been used for printing & writing. - Damourney as-  
serts that with these flowers in dyed wool & cloth of a fine viperine colour has  
been previously immersed them in a properly diluted solution of binumth.

Class 10. Order 11.

Vaccinium. V. Viticidosa. Aug. Bilberry.

Use. The fruit of the bilberry is acid & cooling. In Sweden it is eaten in the form  
of jelly. The young leaves of this species might also be advantageously and instead  
of those from which they can scarcely be distinguished. - All the species of bilberry are  
digestible, & their juices mixed with sugar, & perhaps fermented may be converted into  
a palatable & wholesome domestic wine. This

convolvulus. C. tricuspidatus. Field Bindweed. Small bindweed.  
 The common or small bindweed is a common plant in fields & hedges, but particularly  
 troublesome in gardens of a gravelly soil. As the roots of this plant, particularly in wet  
 seasons strike deep into the ground, & injure the growth of corn, they ought to be carefully  
 extirpated & transplanted on the sandy banks of rivers & lakes, where they grow best  
 to bind the soil. They are uncommonly partial to the flower of the convolvulus; but  
 is easily eaten by black cattle & sheep. (Lindl.)

Chap 20. Order 13.

Betula. B. Populifolia. White birch. B. Lenta. Spicy birch. Black birch.  
 The white or common birch tree is not of a large growth, but when cultivated in a  
 favourable soil, & a good situation, it rises to a considerable height. There is a degree of el-  
 eance in its general appearance in summer, & the bark in winter is frequently varie-  
 gated with red & white. It is easily cultivated by the usual method; but when raised  
 from seed, the young shoots of the birch should remain two years in the nursery  
 & then be transplanted in rows. They may also be propagated by layers. For this  
 purpose a sufficient number of plants should be placed at a distance of three  
 yards from each other in a soil which has twice been trowed by the shade. If in  
 the following year, they should produce no shoots, they may be clipped to within a  
 half a foot of the ground, to form the stools, in consequence of which they will  
 germinate with vigour in the following manner. In autumn the young shoots should  
 be placed near the stools, & the tender shoots layered near the end. Thus managed  
 they will have taken root, & become fine plants the following autumn.

Leonardi remarks in the 2<sup>nd</sup> vol. of his natural history that the flowers rather  
 of this tree, when boiled in water afford a good substitute for soap. — Beside the  
 utility of the sap or juice of the birch tree in affording a delicious wine, it affords  
 from the experiments of Linnaeus that uric acid may be obtained by inspissating  
 the juice of the variety called Black Birch. Pison says however is only of an in-  
 ferior quality but less in quantity than that prepared from the Sugar maple.  
 The bark of the birch is of very extensive use. Professor Pallas says



to the water one thin slice with to each, & the water of the bark is 257  
 to get portable water, & the bark is in a fermentation to, & the water  
 is clear. The Supleader, at the water bark into thin slices, & in a  
 as bark & the stems, & it can form some part of the dressing of fresh, it is  
 and is strong; & as a substitute for oak bark in tanning. The Swedish government  
 in this bark. I find bark at a certain degree as a substitute for bark China, & in  
 war. When boiled with alum, it affords a dye of a red or color. I am convinced  
 that the bark is better for tanning than in a fresh state. For this  
 purpose it is cut into small pieces & boiled for half an hour in pure water; & the  
 alum & dyes are steeped in it, which is known. The dye is in iron bottles on the  
 following day, & the steeping of the leather is often repeated; after which it is suspended  
 in the air. Leather thus prepared is said to be water proof. The leaves of the birch  
 are a yellowish color to wool, which has previously been prepared with alum. Those col-  
 lected in the spring, however, are not so proper for dyeing as the autumnal leaves, & some  
 former produce a greenish tinge; but the latter afford a beautiful yellow color.  
 have also been used in the dyeing, it is either applied externally or in solution  
 by the mouth. — The fungus which grows on the trunk of the birch tree is a very good  
 article; & when boiled in water, beaten & dried in an oven it makes excellent touch wood —  
 which is used for fishing rods & brooms; as well as by bird-catchers, who smear them  
 the bird-bane. — Birch wine was formerly in considerable repute as a remedy in  
 phrenetic disorders, but is disused in modern practice. — It is a rich cordial & accord-  
 to Dr. Radham, an excellent remedy for consumption & the same we shall re-  
 main our readers with the method of preparing it: tho' we have no experience of  
 medicinal powers. — The juice of the sap of the birch tree should be extracted  
 in the beginning of March when the buds begin to swell, & before the snow  
 has melted. An incision or hole must be made in the trunk almost as deep as  
 a pitch under some branch of a well spreading tree on its southern side &  
 about one foot above the ground. A glass tube should then be fitted to the aperture  
 which the sap will flow similar to distillation. In applying a little more  
 the orifice the wound will heal & the bark afterwards close. Some persons are of  
 opinion that the sap drawn from the trunk of the tree is not so pure, that others  
 prefer the higher branches. To prevent this juice from fermenting till a sufficient

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... in which it is collected ought to be immediately stopped. - One of the best methods of making such wine is as follows: To every gallon of the sap, add a pint of honey, or a pound of sugar, stir the whole together & boil it for an hour with a few cloves, & a little lemon peel. at the same time run the rising imbuities. When cool a few spoonfull of yeast should be added to induce a proper degree of fermentation. & after the yeast has settled the wine should be bottled up & kept for use. If this liquor be preserved with great attention, it becomes so strong that the common stone bottles into which it is decanted frequently burst. (Hb.)

Class 19. Order 19.

Rubus. R. Idaeum. Frag. Garden Raspberry. R. Villorum. High Blackberry.  
R. Sorialis. Dewberry.

Use. R. Idaeum. Rasp berries are an alkaline, moderately cooling & corroborant. They purge thin & watery, & a diarrhoea, promote the natural excretions, & strengthen the viscera: they also dissolve tartarous concretions of the teeth. - In agreeable syrup, & a wine is made of their juice. Some make them into sweetmeats with sugar, & they are often eaten with milk. - Both the fruit & leaves were formerly recommended in vomiting, dysentery, uterine & nasal haemorrhages. (Stems.)

Blackberry. We have two species, the fruit of which in general is called Blackberry. The fruit which we designate by the title of R. Villorum is a robust plant which grows in a rich moist loose soil will send forth shoots 10 or 12 feet in length, & an inch in diameter, somewhat ribbed or angled, armed with strong hooked thorns; the next season after these shoots spring out of the earth, they flower, & bear fruit in corymbs, or clusters, which terminate like the branches, proceeding from the axils of the leaves; the fruit of is oblong above an inch in length  $\frac{1}{2}$  of an inch diameter, of a beautiful shining black colour, of an agreeable taste sweetish mixed with a sub-acid astringency.

The second species R. Sorialis is commonly known in the name of Dewberry. This vine does not grow either so high or so robust as the preceding species: its stems are weaker, climbing from the soil & bear down towards the earth. This extremities often trail on the ground, & taking root in the earth, form new plants, & in a little time spread over uncultivated grounds. The leaves creep high hills land; the fruit is large, round & blackish ripe supported by a clammy sebaceous or moist like the Damascene plum, grapes &c. They possess a sweet & rich subacid taste, & for eating is generally preferred to the former species.

ally made of black berries, or dewberries when on the tree from red to black is  
found in the United States for the gravel. & of kind of the berries subject to this dis-  
ease shake highly in praise of the remedy.

Bur Saxatilis. Thunb. herb. The Europeans mix the berries of this plant with honey, which  
when fermented is a pleasant beverage. Wine & vinegar are also made of the fruit of the  
same tree & a syrup & jelly prepared from it are used as gentle astringents. The leaves afford  
several colours in dyeing. (Dom. Luc.)

Class 5. Order 3

Ephylea. S. Tryfolia. Ang. Black Nut tree.

This is a plant containing two species. The pinnae, indigenous in Britain & the Eryfolia  
The second black nut, a native of Virginia. This tree affords an oil which  
might be employed for lamps, but the trouble of expressing it is too great. The wood is  
used on the Continent for various domestic purposes. The flowers are much frequented  
by bees. (Ibid.)

Class 13. Order 13.

Rosa. R. Rubiginosa. Ang. Sweet briar.

This is a well known indigenous plant, found in hedges & on heaths. It grows to  
the height of five or six feet, having green branches armed with prickles. The varieties  
in species are the common single flowered semi double flowered, double flowered, & yellow  
flowered. This shrub deserves to be cultivated in every garden on account of the agree-  
able perfume of its leaves. The best places for planting it are the borders contiguous  
to walls, where it will frequently emit its refreshing fragrance. The young branches  
of the sweet briar are a rich addition to the dishes of nonpay, & soups &c. The  
blossoms of this shrub are constantly visited by bees, & the leaves are used on the Continent  
in tanning soft leather. (Ibid.)

Class 14. Order 1.

Melissa. M. Nepeta. Ang. Calamint.

An indigenous species of the balm. - The calamint, as well as the other species of the  
genus is now only ranked in medical practice among the mild corroborants. Infusions of the  
leaves in water have an agreeable smell, but a weak taste, yet when inspissated they  
have a considerable quantity of a bitterish extract. (Ibid.)

*Crataegus punctata*. Ang. Parrot's grass.

The *P. Sound*, or painted leaf grass, or Ladies Tress, is occasionally sown in our garden on account of its beautiful striped leaves. It is of considerable utility for that purpose in rich or cottage, & this plant is more durable than straw. In the north of Europe the stalks attain the height of four two to six feet, it is mowed twice a year, & given to cattle as a nutritious & wholesome food. We are therefore of opinion, that this species might also be successfully cultivated, for the same purposes, in Britain. (This)

Clap 12. Order 3.

*Emula. L. Lathyrus*. Ang. Capers, garden-Capers. Purple capers.

Use. This plant delights in the crevices of rocks, old walls, &c. & throws luxuriantly in an horizontal direction. In the warm parts of Europe it is propagated by seed, & the seeds, pickled with vinegar &c. are annually imported from Italy, or the Mediterranean. Capers are supposed to excite the appetite to assist digestion & to be useful deliquescent & aperients, in obstruction of the liver.

Mr. Jefferson in a letter to the committee of Correspondence of the Agric. Soc. of S. Carolina dated Paris, July 1784, recommends the introduction of the capers into the southern states. He observes "The caper tho' a tender plant, is certain in its produce; because a mound of earth of the size of a cucumber hill thrown over the plant in the autumn, protects it effectually against the cold. When the danger of frost is over in the spring, they are to be uncovered, & the culture begun. There is a great deal in the neighborhood of London - The plants are set about eight feet apart, & yield one year with and then about two pounds of capers each, worth on the spot about six pence sterling. The ground they require little culture, & this may be performed either with the plough or hoe. The principal work is the gathering the fruit as it forms. Every plant must be picked every other day from the last of June until the middle of October. But this is the work of women & children. This plant does well in any kind of soil, which is dry, or even in walls, when there is no soil, & they last the life of a man."

Clap 10. Order 3.

*Anthemis A. Cotula*. Ang. May-weed. Foetid chamomile. Mathew.

Use. It grows in corn fields, on road sides, & borders of dung hills; it is a weed

one weed in killed land, very unprofitful & disagreeable to see. & not eat. 261  
ed by either horses, cows, sheep, goats or swine; but toads are said to be fond of it  
of its uncommon acrimony it frequently whitens the skin & scapes. Notwithstanding  
of its very pungent taste, it has often been used with advantage in diseases  
scabies to females. - Becherstein - In dyeing a decoction of the whole plant  
run in flower imbrates a permanent citron colour to wool prepared in a solu-  
tion of bismuth. 'Dambourne'

Cap. 20. Niles.

Castanea. C. Americana. Am. Chestnut.

The character of the chestnut tree are nearly the same as the beech, except that the male  
flowers are disposed in cylindrical catkins. The style more numerous & bristly. The capsules much  
open round, & set very thick with long prickly spines; containing from two to five, but  
usually two or three nuts, filled with a nut kernel. - Chestnuts especially the smaller  
but that form an important article of commerce, in Italy & in the Island of Corsica.  
which latter alone exports annually such quantities as amount in value to 100,000 crowns.  
The Germans roast them among embers & eat them with butter & salt; the French with onion  
juice & sugar which agrees better with weak stomachs. This acuminous fruit is also em-  
ployed in several articles of confectionary; as a substitute for coffee & in the preparation  
of chocolate - Altho' these nuts are palatable, & less oily than most production of a simi-  
lar nature, yet when used in abundance, they are not easy of digestion, & ought therefore  
to be eaten only by the healthy & robust to promote their solution & assimilation in the  
stomach. They require the aid of salt in a considerable proportion; but the addition of  
oil renders them still heavier, & tends to retard rather than to accelerate their conversion  
to alimentary matter. - This tree is highly valuable for many purposes, & ought to be  
carefully attended to by the people of this country. The superiority of the timber over most  
others in durability, is well known. The tree splits easily, & hence is used for fence rails. The  
best chestnut tree is very brittle, & apt to crack, & therefore horse shoes stand longer than  
when it is in a growing state. If cut while it grows only six inches, it will be not  
swollen, having very little sap in proportion to other trees. The nuts are the usual & in  
some places almost the only food of the common people of Italy, Savoy & France, not  
by boiled & roasted, but also in puddings, cakes & bread.

262. The best way is propagated by planting the nut with the burr, in the spring. The best nuts for planting are such as are brought from Portugal & Spain, or a large French which are sometimes seen in the Philadelphia markets. The direction to plant the nuts in the burr is given in consequence of the destruction of them, which a gentleman in New Jersey who has wisely planted several acres, lately experienced from field mice. The nuts if imported, must be bought over in boxes of earth. In setting the nuts, make a drill with the hoe about four inches deep, & six inches distant, with the eye uppermost, then cast the earth over them with a rake, & make a second drill at about a foot distance from the former, proceeding as before, allowing three rows in a bed, with an alley between them three feet broad for conveniently clearing the beds. Keep the ground clear of weeds, & in two years remove the trees to a nursery, at a wide distance in three years afterwards, transplant them into the places where they are intended to stand. — In Portugal & other countries they engraft cyons upon trees bearing the largest & finest fruit upon stocks ~~of~~ raised from the nuts. These grafted trees are what for timber. — Another way of propagating the chestnut, is to encircle the stump of a tree, recently felled with a fence. Shoots will come out the first year, & form a bush in two seasons. — Chestnut trees, but particularly those bearing large fruit ought to be preserved with religious care. No more certainly productive legacy could be left by a parent to an infant than land planted with an hundred thousand chestnuts. — Mr. William Prince of Long Island, informs the editor, that the Spanish or or Portugal Chestnut succeeds well in the United States, & produces fruit in about seven years from the seed. It grows more rapidly than the American chestnut; the fruit is more than four times as large, & for boiling or roasting is generally preferred. — It may be budded on the common chestnut, but being quick growth is apt to overgrow the stock. It is best to raise it from seed, which if the trees from which the trees are taken do not grow too near the common chestnut will produce the genuine sort. (Bonn line.)

Sept 5. 1818  
Nymphis. N. D. in Ang. Sweet Cicula.  
The most elegant shell or shell reds made, the *Candix odorata* L. is a

the plant, growing in orchards, hedges, & was generally used by our houses 268  
 chiefly found in the counties of Westmoreland, Cumberland, Lancashire, & Worcester. It is perenn-  
 al. & produces white flowers, which blow in the month of May, or June, & has an agreeable  
 retic taste. The whole plant has an aromatic scent, & its seeds are used in the north of  
 England for polishing & perfuming oak floors, & furniture: They also yield an essential oil,  
 in like manner that obtained from anise seed... The fresh leaves & stalks of the sweet cicely  
 impart to wool a fine citron yellow dye, when prepared in a solution of bismuth; as  
 related by Dambourney: Ibid.

Class 4. Order 1.

Sanguisorba. S. Canadensis. S. Officinalis. - Angl. Burnet Sarsaparilla.

Burnet the great, or wild, or meadow burnet, a native plant growing on moist pastures,  
 especially on a marsh & calcareous soil. It is a hard, woody plant, & grows from two to three  
 feet high, branching towards the top, & terminated by thick oval spikes of flowers, of a  
 brown colour, which appears in June & July in this plant should not be confounded  
 with the following Poterium Sanguisorbia, or inland burnet which is a very different spe-  
 cies of plant. The great or wild burnet, has been frequently employed in the art of dy-  
 ing. Wool dyed with linen or cotton in a decoction of the dried brown roots, flowers  
 & a grey colour with a greenish shade by the addition of alum; & a dark blue, which  
 soon assumed a beautiful grey by adding a solution of tin; & of a deep black colour  
 by dipping into the liquor a solution of copperas. According to Beckstein the  
 wild burnet is used in Germany & Lusatia as a substitute for oak bark & the plant  
 is also eaten by cattle especially by sheep. Ibid.

Class 13. Order 13.

Stentilla. P. Anserina. Wild tansy. P. Argemone. - Argent. Sals Inguifol.

Stentilla, a genus of plants comprising 85 species. Argent. Sals Inguifol grows in  
 meadows & pastures in a gravelly soil & flowers in June... The whole may be used for tan-  
 ning & dying black colour; as it is not touched by cattle. Beckstein.

Class 3. Order 1.

Livia. S. Sclava. S. Prutenis. - Angl. Clay. Herb Clay.

It is perennial, & flowers in the month of June & July; & its leaves are slightly aromatic.  
 When soaked in water for a few moments its seed acquires a mucilaginous coat, somewhat sim-  
 ilar to the spawn of frogs. Beckstein observes that this plant when used as a substitute for hsp,  
 parts an agreeable flavour to beer & wine, but at the same time renders them more vis-

64. tonic, & pernicious to health. It may, however, be more usefully employed in tanning leather, & dyeing a permanent dark brown. - Both the leaves & seed of this plant, have a warm bitterish, pungent taste, & a strong, tho' not an agreeable odour. They are principally recommended in hysterical disorders, & in flatulent colics.

Clary Water is composed of brandy, myrrh, clary flowers & cinnamon in which a little ambergris is dissolved. It is also prepared with brandy, juice of cherries, strawberries, & gooseberries, cloves, white pepper, & coriander seed. The whole of which are infused, sweetened & strained. This medicinal water is said to assist digestion, & to be an "excellent cordial" but we have reason to apprehend that it is, like all other cordials, calculated to increase the catalogue of tipplers, rather than promote the purposes of health. W.D.

Clas 17. Order 10

Trifolium. T. Pratense. Ang. Clover. Red Clover.  
Use. Clover a species of Trifolium or Trifolium L. a genus of plants comprising 55 species of which 16 are indigenous in England.

The pratense or common (red) clover is frequently found in meadows & pastures. This species thrives best on a firm heavy soil & is raised from seed which is usually sown between the months of February & April in the proportion of ten or fifteen pounds per acre. If it be often sown on the same land, the crop will fail: it should therefore be changed for the fall or lucerne.

Common (red) clover is usually sown together with wheat in the spring, <sup>as well as</sup> together with barley & oats; but experienced farmers generally prefer wheat; as in dry seasons the clover frequently overpowers the oats or barley; & if it be sown late, in order to obviate this evil it often fails, & the crop is lost for that season. It is also mixed with ryegrass; & if mown when the latter is beginning to flower, the lower growth is considerably increased, & a great quantity of excellent grass is obtained. Another advantage arises from this expedient; for, however severe the frost may be the clover will be completely secured from its freezing effects by the ryegrass.

The common clover is in flower from May to September, & produces seed which are known to be ripe by the stalks & head changing their colour. Cattle, sheep, & pigs are exceedingly fond of this species, & frequently eat of it so eagerly as to become hoarse or blown. That disorder, however, may be prevented by constantly moving them



at the field, when mowed in, so that the first fall may be sown the 65  
and before the next be sown. Or if clover be turned into clover belly deep, they  
it is said, receive no injury by eating too freely of it, as it is pernicious only in  
early state. Should they nevertheless be attacked with that dangerous swelling  
& may be relieved by a doctine, the remedies pointed out under the article Cattle  
our 1<sup>st</sup> volume — It deserves to be noticed that the introduction of this  
valuable plant into modern husbandry has been attended with numerous & impor-  
tant advantages. Since that period the new system of stall feeding dates its origin  
to any insignificant farms on the Continent of Europe, have since been converted  
to valuable estates; for as this species of clover is annually productive of three  
four crops for two years at least, it is generally ploughed in, after the last  
owing, in autumn, & wheat or rye immediately sown on the land, without  
any other manure, except what is derived from the fertilizing roots of that  
vegetable. Sometimes however, gypsum is scattered on such fields during winter.  
In Pennsylvania this operation is generally performed during the months of March  
& April. — In Sweden the heads are employed for dyeing wool of a green  
color, & if mixed with alum they yield a light, & with copper, a dark green color.  
Trifolium Repens. White clover abounds in meadows & pastures. — It is a  
kind in light land, where it will thrive luxuriantly, if frequently watered. It is usually sown  
with red clover, rye grass, or barley & is in blossom from May to September. It produces the  
best hay on dry land, especially when mixed with hop clover & rye grass, & possesses  
in advantage over the common clover, that it will admit of being irrigated. Horses  
& goats eat it, but sheep are not fond of it, & dogs totally refuse it —  
White clover whether sown or pastured is one of the most valuable grasses for cattle  
is evidently a natural grass of the country, & uniformly appears in our meadows  
with of the city, when closely mowed by sheep, & a gentleman who has travelled  
through the hostile Indian country, says he has seen fields covered with this grass.  
The sweet blossoms of white clover powerfully attract the bees, all summer, but it  
chiefly in the months of May & June, that the aliment is collected & stored in hives.  
It is observed that clover honey may be easily distinguished from every other honey in the hive.  
The clover when mixed with Timothy or green grass, Poa trivialis makes excellent hay. (See)

Urtica. S. Canadensis. Ang. Club rush.

Use. It grows on the banks of rivers, ponds & ditches, & is chiefly found in the western parts of England. It is perennial, & grows from six inches to two feet high. Flowers in the month of June & July. Foxes & dogs devour the roots of this species when fresh: but will not touch them when dry. They are also eaten by goats & horses, but refused by cows & sheep. Ibid.

Class 13. Order 5.

Aquilegia. A. Canadensis. Ang. Common Columbine

Use. It is a native plant growing in hill wood & thickets. It is perennial & blooms in July. The beauty of its flowers, & their common variety, both in shape & colour have introduced this plant into gardens. It is eaten by goats, but sheep are not fond of it, nor is it relished by cows, horses, & hogs. Ibid.

Class 9. Order 1.

Eriophorum. E. Angustifolium. Ang. Common cotton grass.

Use. It is found chiefly on marshes & bogs in the county of Stafford, on Birmingham heath & near Newport, Shropshire. In the island of Skye, in Scotland, this plant is useful to support cattle in the earlier parts of the spring, before the other grasses are sufficiently grown. The poorer classes of people stuff their pillows with the woolly down of this plant, & also employ it in making wicks for their candles. Ibid.

Class 12. Order 5.

Pyrus. P. Coronaria. Ang. Crab apple

Use. This is an indigenous plant growing in woods & hedges; it flourishes better on declivities & in shady places, than in open exposed situations, or on boggy soils. Its blossoms are white & appear in the month of May.

This is the parent stock, from which the numerous varieties of the apple are obtained, & on which the better sorts of them are grafted; because its roots are neither killed by frost nor eaten by field mice. Grass & even corn will grow beneath it. The wood of the crab is tolerably hard, tough & elastic on the lath; & when made into cop, for wheels acquires a polish which renders it very durable. The acid juice of the fruit is commonly termed verjuice & is much employed in roasting, & in other cases as an astringent or scabellent. This fruit is eaten by horses, cows, sheep, goats, & particularly by dogs, which are extremely fond of it.

is abundant especially in our forests, & this fruit furnishes a bundle of fruit  
for use in the latter part of autumn when grass begins to fail; & in winter they browse  
the branches, which are cut down for that purpose. As this species quickly attains its  
maturity, it deserves to form a part of every plantation; & we have only to regret that  
it is not more generally cultivated, as it will in a short time amply compensate the  
labour & expense bestowed on setting it. In dyeing the bark of the crab tree has been  
employed for extracting a yellow, & especially a citron colour. Dambouney relates that  
by drawing of this wood imparted a fine chestnut brown to wool prepared by a so-  
lution of Greenish. Wood.

Class 11. Order 1.

*annulus. R. Emicula. Ang. Water Cow foot.*

grows in ponds & ditches, where it produces white flowers with yellow spots on the base  
from May to July. In the 5<sup>th</sup> vol. of the "Transactions of the Linnæan Society" we are informed  
by Dr. Patteny that the cottagers in the vicinity of Kingwood, on the banks of the Avon,  
support their cattle almost entirely with this plant which is devoured with such avidity  
that it is deemed unsafe to allow them more than a certain portion. The cows thus fed  
continue in excellent condition, & yield a sufficient quantity of good milk. These animals  
are so partial to the Water Cow foot, that, excepting the scanty pasture they procure on  
the adjoining heath, five cows & one horse had not consumed more than half a ton of this  
in one year. Hogs likewise eat this vegetable, on which they remarkably improve: accord-  
ing to Dr. P. it is not necessary to allow them any other food, till they are put up to sell.

Class 6. Order 1.

*Arvensis. N. Pseudo. Narcissus. Ang. Daffodil*

An indigenous perennial plant, growing in woods, meadows, & the sides of hedges, which is  
found chiefly in the north & west of England. It produces large, yellow, ill-scented flowers,  
which appear in March... Beckstein observes that two drachms of the root afford a  
saccharine. Don. L.

Class 10. Order 2.

*allis. B. Perennis. Ang. Common Daisy.*

The leaves of the daisy, tho' slightly acid, may be eaten as early spring salad, or  
like spinach, its roots have a pungent taste, & are in high repute abroad as an  
excellent vulnerary, attenuant, cooling & astringent medicine; yet its attention is paid to  
in this country except what it claims from the beauty of its flowers; on account of which

68 has been introduced into, gardens. It is refused by horses, sheep & cows.

Mr. Bechstein a respectable German naturalist, mentions a curious fact relative to the virtues of the common daisy. He says, in a note. "I am acquainted with a very skilful & experienced physician who has completely cured several consumptive persons with the flower buds of the *Bellis Perennis*. By stuffing young chickens with these buds, without any other ingredients; then stewing them in unsalted beef tea or broth, adding a little fresh butter, & allowing the patient for three weeks, no other food but the medicated dishes thus prepared. At first it affords a delicious repast." We candidly confess we have had no opportunities of ascertaining the efficacy of this preparation, by the test of experience; but nevertheless we believe that in so desperate a situation, as that of pulmonary consumption, or other species of atrophy, unattended with violent febrile symptoms, it well deserves to be opportunely & fairly tried. *Ibid.*

Clas 3. Order 2.

*Lolium L. Perenne.* Red clover or Ray grass.

It grows in meadows. In dry pastures, it attains the height of two feet, & flowers in June. As it makes good hay, upon dry, shabby, or sandy soils it deserves to be cultivated especially with clover; it springs earlier than the other grasses; thus supplying food for cattle at a season when it is most difficult to be obtained. But tho' it is easily eaten when young, it is too dry & hard when converted into hay by itself. Mr. Probyne hints in his *Germania Pasca* a most valuable publication for practical farmers, who wish to obtain a complete knowledge of the different pasture grasses; than the common ray grass but probably by frequent mowing, degenerated from its natural qualities, & that it was in many respects inferior to that growing naturally in our best meadows & pastures. Mr. Payer, an enlightened agriculturalist, has lately raised a variety of ray grass from seed raised in old pastures, & has now multiplied it to such an extent, as to sell annually a considerable quantity, at the price of 10/6 per bushel. It has by the most competent judges, been proved to be infinitely superior to the cultivated ray grass & he has sufficient demand for his whole produce. The red clover is eaten by horses, cows & sheep; but goats do not relish it. *Ibid.*

ca. D. Palustris. Imp. leather wood. More wood

is a low shrub, & native of the United States, growing in moist shady places, seldom more than four feet high, spreading into a head, with many small & very flexible branches. The flowers are produced at the extremities of the former year's shoots. They are of an herbaceous colour, & make a tolerable appearance. The flowers which appear at the latter end of March before any perfect leaves are of a yellow colour. The bark is uncommonly tough, yet the enclosed wood is very brittle. It is highly valued by the true Indians, & used in the place of cords. This plant, according to the information Mr. B. Bartram, occupies an extensive range of territory from Canada to Georgia.

Class 6. Order 1.

Allium. A. Arcolonicum. Imp. Shallot. Eshallot.

It is a native of Palestine whence it has been introduced into our kitchen gardens. It is raised from necks, which are set about the end of February in beds, or furrows at the distance of about three inches from each other. Towards the end of June the stems are cut up, & in the course of another month, the plants are pulled out of the earth; when they are exposed to the air to dry, & afterwards preserved in some airy place - the roots of the eshallot are very pungent; have a strong but pleasant smell & are preferred to onions as ingredients in highly flavoured soups & gravies. They are also pickled, in which state considerable quantities of them are consumed in East India.

This plant when mixed with vinegar, wine & honey, is said to be serviceable against the bite of a mad dog, we doubt, however the efficacy of such application. It is also recommended as an excellent cathartic, especially when inhaled thro' the nostrils; but its most beneficial properties are those of exciting an appetite, & expelling foul air. (Vind.)

Class 3. Order 2.

Stueca. S. Flavior. Imp. Fall Field grass.

grows in boggy meadows, & at the sides of wet ditches, where it often attains to the height of four or five feet. It is perennial, flowers in the month of June or July sometimes twice in the year & makes excellent pasture, but requires a rich soil. It is eaten by horses, cows, sheep & goats. (Vind.)

Clap 18. Order 3.

*Matricaria. M. Chamomilla. Aug. Chamomile Fewer.*

It grows in corn fields, dung hills as well as on road sides. & is in flower from May to August. Its properties are similar to those of the common Chamomile. it is eaten by cows, goats, & sheep, but not relished by horses, & horses totally refuse it. According to Ponce the flowers of this species of fewer afford a fine yellow pigment which may be rendered more permanent by the addition of a small quantity of cream of tartar & gypsum. Schiffer, another German chemist informs us that a decoction of these flowers imparts a beautiful yellow colour to silk. & a solution of tin, saturated with cream of tartar, be gradually dropped into the liquor till it acquires a deep yellow tinge. Berthollet, however, on this occasion remarks that pure water must be employed, which does not precipitate the solution of tin, & that the dyeing bath should be kept in a hot, tho' not in a boiling state. (Ibid)

Clap 9. Order 2.

*A. Precum. A. Pratense. Aug. Meadow Fox tail grass.*

It is perennial, grows in meadows & pastures & flowers in the month of May or June. This plant thrives naturally in moist soil only. it affords the best grass that can be sown on low meadows or in boggy places which have been newly drained. Its seed ripens early, & are easily collected. At the time of pasturing on it are said to acquire a coarse flavor, yet it furnishes a most grateful food to cattle; but as the larvae of a species of flies devour the seed to so great an extent, that in many places scarcely one can be found perfect, its cultivation is rather precarious. These insects are very minute, of an orange colour, & are the prey of the *Amex* canker bee in a field but whose months are peculiarly favorable for searching the husks of grass.

Clap 5. Order 2.

*Panax. P. quinquefolium. Aug. Ginseng.*

It is indigenous in North America. The dried root of ginseng has a mucilaginous, & is that of liquorice, but accompanied with some other

of bitterness, & a slight aromatic warmth, with even bitter & downy. The 271  
we ascribe extraordinary virtues to this plant, & consider it as a sovereign remedy  
almost every disease to which they are subject. No proofs however, of its wonder-  
ful efficacy have occurred in Europe. Nevertheless, it is often used as a tonic, antispas-  
modic & stimulant, in doses from 20 to 60 grains powder. Nor do we believe that the  
sweated & infused tea possess any peculiar properties, excepting those of a narrow  
taste & coating, while the warm water wellowid with it debilitates the  
stomach.

This well known plant is the only native production of the United States  
which answers to export in order to procure the luxuries of China. It is not much es-  
teemed in China, unless clarified, except in times of great scarcity of the plant. The  
juice, well clarified, it has brought the extravagant price of one hundred dollars  
per pound, & great wealth has been acquired by some early adventurers from Phila-  
delphia. The process of clarifying, though hitherto kept a profound secret  
consists in the careful application of heat & moisture to the fresh roots, & after  
wards dipping them in hot rice water, or a solution of sing glass in water  
it is observed that not more than one root in twelve will clarify. This plant  
is so abundantly near Philadelphia, & the Chinese attribute almost mi-  
raculous powers to quinine. In particular they suppose it possesses the prop-  
erty of preventing the effects of old age, & in preserving their vitality to a late  
period. Medical men in Europe & the United States do not ascribe any vir-  
tue to this plant: but Mr. Pennant shrewdly remarks, that it is very ex-  
traordinary that a nation so acute as the Chinese, should continue to use it for  
so long a period, & still believe in its good effects, & therefore he cannot be per-  
suaded but that the plant must possess some of the properties attributed to it  
by the Chinese. Ibid.

### Clas 5. Order 1.

*Sor. R. Groselacia. Ang. English gooseberry. R. Uva. crispia Sm. the gooseberry.*  
Gooseberry. This useful shrub flowers in April, & bears fruit in June or July, which  
does not acquire its natural vinous flavon in this climate till August or  
September.

The gooseberries are generally eaten or employed for culinary purposes, being

272 They are at present maturity & being one of the most saccharine productions we possess they might with more advantage be converted into wine. As each pound of the juice expressed from ripe berries requires only one ounce of soft sugar (whereas the ripest currants require double that quantity) to induce the vinous fermentation, a very wholesome & very excellent ~~and~~ domestic wine may be made at a trifling expense. After standing several years in bottles well corked, it becomes equal in quality to muscadine or other sweet Italian wines. If the flower buds of this shrub be added to a cask of any other flavoured wine, Bryant asserts that they impart to it the taste of genuine muscadine.

The husks of this fruit, when the juice is expressed for making wine, are usually thrown away: it appears however, that they may with advantage be employed in distillation, & afford an agreeable spirit resembling brandy. It has indeed been ascertained by experience, that such liquor, after having been kept a few months, was little inferior, in point of strength & flavour, to the best French Cognac.

Gooseberries are a delicious & wholesome fruit, & would be found very profitable if attended to, in the United States. They not only afford a very pleasant article of diet, but also form the chief article in an excellent domestic wine. Such a wine, made near Downingtown, the Editor had the satisfaction lately to taste, & hopes to be able to describe the particular process pursued in making it. — This fruit may be preserved by being put up dry in a large mouthed strong black bottle, covering the cork well with wax.

The smooth gooseberry vitis u. crispae can with difficulty be distinguished from the preceding species either by the flower, or even by the smoothness of its berries. Mr. Robson assured Mr. Wethering that the seed from the same plant will produce both rough & smooth gooseberries.

All the different gooseberries are wholesome fruit, but they should not be eaten before they are perfectly ripe, nor is it proper to swallow their stones along with the juice; but the skin may with probable advan-



be used by those who are accustomed to take large quantities 273  
; in order to prevent flatulency. It is however founded on erroneous notions  
their chemical properties, either to boil the unripe berries for saucers, or to  
mix them into domestic wines, which, tho' more cooling & refreshing, do  
not preserve the delicate flavour, & rich saccharine quality inherent  
in ripe fruit. (Ibid.)

Clas 5. Order 2.

Senecioium. C. Album. Ang. Pigweed. White goosefoot, or common  
fold Bracke.

It grows frequently in corn fields, on old dung hills, rubbish & in gar-  
dens; & flowers in the months of July & August. It is eaten by cows, goats, sheep,  
pigs, & hogs which devour it with avidity. But Linnaeus says that it is to-  
tally refused by horses. According to Prof. Pallas, the white goosefoot is a  
very troublesome weed among corn on the banks of the Volga, where the Ger-  
man colonists make use of its very abundant seeds by mixing it with bread  
corn, & also boiling it separately in the form of groats. ... Toward relates  
that a species of Potash, or Soda is prepared from this plant. (Ibid.)

Clas 21. Order 2

Scrubite. C. Saginaria. Ang. Bottle gourd.

It is native of both the Indies where it grows on the banks of rivers: it has  
thick trailing downy stalks, extending from 10 to 20 feet, & producing large  
white flowers which are succeeded by long incurved fruit, of a whitish yellow  
colour, from 2 to 5 or 6 feet in length & from 9 to 24 inches in circumference  
is used for dishes & Cakes.

Pepo. Pumpkin or Comfion.

It is cultivated in various parts of Germany & the U States, but the native soil  
which is unknown. It produces fruit of various shapes & sizes, frequently 10  
inches in diameter, & it is cultivated in a tolerable land exposed to the rays of the sun  
without much trouble. The pulp of the fruit is eaten as an ingredient in puddings  
& pancakes. But the most economical use of this bulky vegetable product

274. That of getting fish, as well as carp when thrown into fish-ponds.  
For these purposes extensive fields are devoted to the growth of the common gourd  
or pumpkin in Bohemia, Saxony, Thuringia &c. climates, which coincide with many  
parts of Britain. So that this plant certainly deserves to be more generally raised  
in this country. Besides, its numerous seeds afford an unusual proportion of essential  
oil amounting to one half their own weight: when triturated with water, they  
yield a cooling & nutritious milk; & boiled into a jelly, they are said by Beckstein  
to be a very efficacious remedy for curing a retention of urine.

C. Verucosa Ang. Club squash.

It is raised in America as a culinary vegetable; its young fruit is eaten boiled  
& frequently mixed with wheat flour in the baking of bread, to which it im-  
parts a yellow colour, but an agreeable taste.

C. Melo-pepo. Ang. Flat Squash.

It has a long erect stalk, several feet in height, which becomes bushy to-  
wards the top. It produces a knobby fruit of a moderate size, & is used like  
the preceding species.

All these species of the gourd have several varieties, & the fruit of each  
frequently changes its form. They are raised from seed set annually in the month  
of April, or in the beginning of May. But if the plants be forwarded in a hot  
bed, till they are a month old they will produce fruit six weeks earlier, &  
mature comparatively sooner. It is remarkable that the stalks of the dif-  
ferent species of the gourd contain a considerable proportion of vitriolic par-  
ticles, & ought therefore become useful in the manufacture of salt petre.  
The legumina will not ripen in G. Britain. But in the East & West Indies  
both gourds are sold in the markets & are used for food for the inhabitants  
seasoning them with vinegar, which renders them very wholesome. How

var. *Lanatus* Ang. Meadow soft grass.

root is perennial, stems from two to three feet high. The velvet like softness of the  
int. & the redness of the opening panicle, renders it very conspicuous in the field.  
plant is esteemed by Mr. Marshall, as excellent for promoting the growth of young  
horses & cattle of every kind, but not good for horses... Indeed it has been accused of  
causing the discharge of a morbid quantity of urine in horses (young) stomachs.

var. *odoratum* Ang. Sweet scented vernal grass. Class 2 Order 2.

It is common in our meadows & grows to the height of ten inches; it is an early grass  
delights in moist soils

Class 3. Order 2.

var. *Compressa* Ang. Blue grass.

It is a native grass of the United States, having a compressed or oblique culm or  
stem. Panicles squared, spikes round & eight flowered. This is eaten by cattle toler-  
ably well when young, & remains green until after frost. It binds the soil in the  
course of three or four years, so as to require ploughing up. This is often mistaken for  
the green grass & both are called occasionally spear grass & vernal grass (D.C.)

*Agrostis*. *A. Alba*. White top. Class 3. Order 2. *A. Vulgaris*. ~~White~~ Red top. *A. Stricta*

Red grass. White top. Soul meadow grass of East Jersey. Dr. Muhlenberg informs that  
he thinks this grass is the *Agrostis stricta* of Waldenow. It is peculiarly adapted  
to wet grounds. It mats & consolidates the surface, continues many years, excluding  
other grasses & all weeds. Many worthless swampy spots in the lower parts of the  
State of New Jersey have been rendered valuable grazing grounds by this grass. Loaded  
wagons have passed over places, which two or three years before sowing it, would scarcely  
admit a wagon there without sinking. It makes excellent hay, & cattle are said to  
prefer it to that made of either clover or timothy. It is more succulent than timothy  
and is coarser. The same bulk of red grass may weigh one third more than the  
same bulk of timothy hay. Four tons is a common crop for one acre. It yields one second  
crop, but affords excellent feed & early pastures. It was first brought to New Jersey  
by the late Gen. Fortes, who resided near Mount Holly; & introduced  
into Pennsylvania about ten or twelve years since. The Red top & White top

276 in some varieties of the above species, grass. The latter is the larger of the two  
in our climate particularly valuable as it will grow & root the first year on banks,  
when no other grass will thrive. (See line.)

Class 19. Order 10.

C. racemosa. A. Lycopodium. Arap. Ground Pear.

A plant cultivated in the West Indies by the negroes. When in flower it inclines towards  
the earth into which the pedicel enters, & extends to a certain depth, where the roots  
set out as common, so that the latter attains to maturity under ground. A large  
quantity or crop of this vegetable are produced on light sandy lands, of little value,  
it may perhaps be a valuable crop cultivated in the southern counties of Britain.

The seed or fruit, when bruised & expressed thro' canvas bags, afford a pure  
oil & sweet oil, which in the opinion of Dr. Watson, may be used for the same purpose  
as those obtained from olive or almonds. The oil  
of ground pear, however, possesses a great advantage, as it will admit of being kept  
a considerable time, without becoming rancid, or requiring any particular care  
even during the heat of summer. As one bushel of the seed when expressed, yields  
a gallon of pure oil without, & a much larger quantity, though of inferior  
quality with the aid of heat. This discovery to be more generally known & imitated  
The value of a bushel of these nuts in S. Carolina did not exceed eight pence in the  
year 1760. When specimens of the seed were produced before the Royal Society & an  
account given in the 53<sup>rd</sup> vol. of their Philosophical Transactions for 1769 (Ibid).

Class 5. Order 3.

Rubrum. D. Opulus. Arap. Guelder-rose. Water-elder. Snow-ball.

It bears white blossoms in May or June, & red berries in September. When in bloom the  
tree exhibits a singular fine appearance. The flowers, tho' small are formed into  
large globular umbels, whence it is sometimes called the Snow-ball tree. Birds are  
entirely by the red berries, but will not eat them. According to Becherstein, these  
berries may be preserved in vinegar, & the tough hard wood is employed by the  
for small pieces of wood. Ibid.

us. *C. Americana*. Maxim. *Clap 20. 57 us 1.*  
*Libert. C. Kotsata*. Beaked Karunt.  
 The different species of the hazel are large, hardy, & deciduous shrubs, they have  
 varieties valuable for their fruit, which in a cultivated state are known under the  
 name of *Liberts*. The uses of this wood are various: it is employed for poles, hoops for  
 spars, bundles, handles for implements of husbandry, walking sticks, fishing rods &c.  
 The beautiful specimens are required for veneering or staining. The roots of the hazel  
 are preferred to the branches. In states the chips are used for firing the kilns  
 in countries where yeast is scarce, the twigs of this shrub, dried, & afterwards soaked in  
 fermenting liquor serve as a substitute for that article in brewing. Painters & en-  
 gravers prepare coals for drawing outlines from the wood of this plant by the follow-  
 ing process. Pieces of dried hazel, about the thickness of a finger, & four or five in-  
 ches in length are put into a large pot filled with sand, & the top of which is closely cov-  
 ered with clay. In this manner they are put into a pottery oven, or otherwise ex-  
 posed to a sufficient degree of heat; & on cooling, the sticks are found to be converted into  
 charcoal, which draws freely & is easily effaced with India rubber.  
 The kernels of the fruit of the hazel with the shells difficult of digestion, have a  
 disagreeable oily taste, which is agreeable to most palates, yet *Liberts* are  
 to be more nourishing than nuts, both, however operate as a cathartic, when  
 used small, & taken in considerable quantities, but produce constipation & the  
 stools if swallowed in large pieces, & dysentery if eaten unripe. A kind of cho-  
 lesta has been produced from this fruit, which has also occasionally been con-  
 verted into bread. An expressed oil has been obtained from the nuts, which is in-  
 ferior to that of almonds; it is often profusely used by painters as a  
 medium; & chemists employ it as the basis of fragrant oils, artificially prepared  
 because it easily combines with & retains odours. An emulsion made of the kernels  
 taken with good old brandy, is recommended for inveterate dry coughs. Squirrels &  
 are excessively fond of the nuts; goats & hares eat the leaves, but they are re-  
 sisted by sheep & hogs. (Hist)

Clap 5, Pl. 2.

ta. *C. Virora*. Ang. *Nets hembok*. *C. Balbora*. *balbora* etc hembok  
 is a perennial plant grows on the sides of rivers & pools; flowering in the month  
 August. It is likewise one of the most evident vegetable frissons. The roots are  
 hollow, & contain a very acid and bitter juice, that soon changes to a yellow colour

270 & has a nauseous taste, somewhat similar to that of *Garrison*. The stem attains a height of four feet. Eaten in the spring when it grows in the water, it is frequently eaten by cows, which are inevitably killed by it; but as the summer advances, its scent becomes stronger & they carefully avoid it. Yet thus tho' it is thus fatal to cows, it is eaten with safety by horses, sheep & goats, which last devour it with avidity.

Two species of *Cicuta* are natives of the United States viz *C. bulbifera*, with white flowers, & *C. Maculata* with a purple spotted stem & black flowers. They are both highly poisonous. *Ibid.*

*A. tree. A. Korea. Sing. Hollyhock. Chap. 13*

A beautiful exotic plant, frequently cultivated in our gardens. It is a native of China; grows to the height of 8 or 9 feet; & nearly the whole of its stalk is covered with white, brown, yellow or variegated flowers that continue to blow till September. The hollyhock is propagated either by seed, deposited in drills about the middle of April, on beds of light earth, & afterwards covered with soil about half an inch deep; or by separating & setting the roots. As soon as the plants shoot forth a few leaves they are removed into nursery beds, where they require to be well watered till they have taken roots, after which no farther care will be necessary till the month of October, when they should be transplanted to those places where they are intended to remain.

Beside the ornamental appearance of this majestic plant, Dr. Boerhaave informs us that the soft fibrous & woody parts of its stalks, without any addition of rags, paper & white & fine paper. *Ibid.*

Chap 20. Order 13.

*Casahuate. C. Americana. Sing. American horn-bean.*

It grows in woods & hedges; flowers in the month of May. The horn-bean will thrive on poor stiff soils, on barren & exposed hills. If intended for trees it is propagated by seed, as soon as it is ripe. It vegetates 10 months before the plant appears above ground & the young trees are transplanted at the age of two years to the spots where they are intended to remain. When designed for hedges & underwood it is propagated by layers. The horn-bean is a very beautiful tree, & grows to a large size; its leaves

... a practical food to cattle ... it is very much employed by turners; is very  
... for various implements of husbandry, & is wrought into coggs for the wheels of mills  
... which is far superior to those made of yew. The inner bark imparts a permanent  
yellow colour to yarn. (Hid.)

Clas 5. Order 1.

animum. P. Hyemale An. Scoring Bush.  
is found in marshy watery soil & flowers in the months of July & August. This species is  
... to horses, by whom it is eaten, but it is hurtful to cows, & disagreeable to sheep. It  
... employed by turners & cabinet makers for polishing their work, as well as by dairy  
... for cleaning pails & other wooden utensils. - (Hid.)

Clas 6. Order 1.

animum. Aug. Blue bell. Resaynth.  
genus of perennial plants to Great Britain one of which is indigenous. It comprises 16 species  
... is in lignum to England Stella antiana or Maid Hyacinth (Dr. Smith.) it grows in  
... hedges, where it flowers in the month of May. The fresh roots of this plant are poisonous;  
... it appears from experiments that they may be advantageously converted into starch. -

The most admired of the exotic species is the Orientalis, or Eastern Hyacinth, which is cultivated  
... with success by the florists of Holland whence it has lately introduced. It is one  
... most odorous flowers, & has several handsome varieties, the price of which is from three shillings  
... or 30s per root.

The Hyacinth is a hardy plant & will prosper in any soil, tho' the more deli-  
... varieties require to be sheltered during the severer winters. They may be propagated either  
... the seed, or by planting offsets from the roots in autumn; in which latter case the bulbs  
... to be previously cleaned & dried. (Hid.) in plate page 205

Clas 2. Order 1.

ica. S. Veigais. Aug. lilac.  
genus of exotic plants, natives of Persia, consisting of three species the principal of which is the  
... or Common Lilac. It has long been cultivated in our gardens on account of its ornament  
... it is properly managed will grow to the height of 10 or 20 feet.  
... shall flourish on almost any soil, but it produces the most beautiful flowers  
... at flower time, but on wet grounds. It is propagated by suckers which should be  
... from the parent stock in the month of ... & set in a nursery in rows

20 just as much as the other. In the second or third year, they may be removed to the spot where they are intended to remain. After this operation, no farther attention will be required, except digging about their roots once in the course of the year, & setting off the suckers, which not only destroy the beauty of the plant, but likewise deprive it of its nourishment.

The leaves of the common Rose are frequented by the Spanish Fly: The yellowish & red streaked wood of old trees is valuable to turners & cabinet makers; a. The vessel & the oil manufactured of it are equal to those made of Olive wood, & almost indistinguishable. By immersing such articles in a cold dye, consisting of aque fortis largely diluted with water they acquire a fine red colour. From the Globes of this plant may be distilled an essential oil, similar to that of roses. - Ibid.

Clap 17 Vers 10

Phaseolus. P. Vulgaris. Common Pole bean, P. Stannus. Bush bean. Pinewick bean  
There are a number of different kinds of beans, both in America, & in other parts of the world. - Common beans are called nutrition, the leaves cooling & repellent, & the skin of the seed astringent. - Beans have been more employed in food than in physic; they are nourishing, but strong & flatulent, & it is not easily digested. - The distilled water of the flowers has been used as a cosmetic. The Bush bean beat up into a poultice with cream or cooling, & good to relieve tumours. - Half a pint of the leaves, when the plant is in the blossom, boiled gently with a pint of new cream, & half a pound of the best honey, in an unglazed earthen pipkin, till half is consumed, is recommended for the cure of a cancer, or any other tumour, if applied three or four times a day. Vid. Father Abraham's Simancae, Phil 1795. - There is an Egyptian bean, which may be eaten raw or boiled. It is astringent, & good to strengthen the stomach. (Stearn's Herbal)

Clap 19. Vers 1.

Laurus: L. Benzoin. Ang. Sweet bush. Spice bush.  
This beautiful, fragrant shrub, growing wild in many parts of America, & is highly valued among the inhabitants as a perfume, from whence its name. The whole plant is highly aromatic. The bark when a short time has much the taste of lemon peel. The oil of juniper, & the resin made from any part of the bush, is both aromatic & medicinal, & is found very efficacious in dysentery. It will probably one day or other attract the attention of the medical writers in this country, or at least, already done so. (Maternal Physician)



Clas 14. Order 1.

*pheta. N. Cataria. Ang. Catnip. Cat mint.*

is an excellent herb for infants. The distilled water & essential oil are powerful in  
bowel complaints. It is said to partake of the virtues of mint & Juniper royal. It grows  
great abundance in fields & hedges, & is too well known to need a particular description.  
I have distilled it in the flower, & found it yields a small quantity of very pungent essential  
oil which cooled in white flakes, but readily dissolved in rectified spirit. I also distilled  
when the seeds were just formed, & obtained a very clear essential oil of a dark green  
color, resembling the other in smell & flavour. (This)

Clas 12. Order 13.

*ragaria. Ang. Strawberries.*

well known & delicious fruit the produce of this bush or plant. It may seem needless to  
know as not to require any further description; but tho' as a diet it is known, its medica-  
l virtues are not so well understood. Many perhaps are to be told, that the plant taken  
in infusion as a tea is excellent for the jaundice; that the leaves bruised & applied to a fresh  
wound will stop bleeding, & what will be more interesting to the ladies, the fruit is said to drive  
out tartarous incrustations of the teeth. Surely so excellent a dentifrice cannot be obtained  
any other way. The fruit is also said to be peculiarly efficacious in curing long & obstinate  
coughs, & an excellent remedy for the scurvy. (This)

Clas 11. Order 1.

*bulneca. P. Oleracea. Ang. Parslane.*

The seed are ranked among the four lesser cold seeds. - Both the leaves & seed are cooling, antiscor-  
bic, & moderately astringent. - The seed have been employed in cooling emulsions, & the leaves in  
d. & as a pot herb for the scurvy, & cutaneous eruptions. (This)

Clas 13. Order 13.

*matica. H. Triloba. Ang. Nettle leaves.*

is a low plant, which has no stalk but pedicels of leaves & flowers. It grows wild & is shown  
in gardens. The leaves are called cooling, & moderately restraining & corroborant. - It has  
been employed in diabetes spitting of blood, blood urine & dysentery, to strengthen the stomach  
this part; for which purposes an infusion of the herb may be drank as a tea, or a powder  
of the leaves may be taken. The dose of the powder is two drachms. - (This)

*Opuntia* ... *Opuntia* ... *Opuntia* ...  
 From *Opuntia* ... the fruit of the plant resembles a tongue. It  
 is the *Opuntia* ... with a slender stalk.  
 arising from the bottom of the dent about the eyes. It appears to resemble the tongue of a serpent  
 It grows in meadows; the leaf is thick & of a fresh green colour & juicy. The seed is in a green  
 spike. (Both by Medical Diet. &c.)  
 The fresh juice has been used internally for *Scorbutus*, wounds, &c. & an ointment made of the leaves  
 with *lard* or *fish* butter for the same purpose. But it is not much employed in present  
 practice. (Linn.)

Class 10. Brdes 1

*Populus*. *P. Notand* ... *Populus* ... Consumption root  
 This is a low kind of bush or plant found in moist grounds. Some of the country people have  
 used the root good in the consumption. (Linn.)

Class 13. Brdes 1

*Potentilla* *P. Canadensis* ... Common five finger  
 Called also *quinquefolium* & pentap by them. & also *potentilla reptans*. ... It is a  
 trailing plant which grows wild in pastures in many parts of America. The roots are  
 astringent. They are good in fluxes, colliquative diarrhoeas, intermitting & acute  
 fevers, & in general for stopping the gums & other parts. But as there are more poi-  
 sonous, it is but little used by gentlemen of the faculty. Dose of the cortical  
 part of the roots one drachm - Of the internal part two drachms. (Linn.)

Class 15. Brdes 5

*Monarda* *M. Repellens* ... *Monarda* ...  
 Blue Monk's hood. helmet flower & wolfbane. It is cultivated in gardens. This plant is  
 very poisonous. That hunters mixed it with meat, betwixt & destroyed wolves with it. It oper-  
 ates a caustic & suppurating quality; it stops the swelling & corrodes the stomach. Dr.  
 Stock however has ventured to use an extract made of the expressed juice of the fresh  
 herb in an inveterate gonorrhoea, obstinate pain, which followed intermitting & fever-  
 erous, & various tumours, inclinations of the parotid glands, & in the *Arthyrosis*.  
 The dose was two grains mixed with two drachms of fine sugar, three in a day. The  
 dose was increased to the amount of half a drachm three times in 24 hours. It excited  
 a copious discharge of sweat. Those poisoned by this plant, should take a large

til Soil & Water; & after such cardung... then remedies ought to be repeated till the patient has recovered

Class 13. Order 2.

onia. P. Officialis. Any. Pison... The male & female pison have nearly the same virtues, but as the latter is the larger & elegant it is commonly used in the shops. Its roots & Leaves have been esteemed cooling corroborant, & slightly anodyne. They have been employed in obstruction, & eversion of viscera, heat of urine, pain in the kidneys, & spasms to the epilepsy. It appears by the animal experiments that they have a corroborating power. In the course of my practice I never discover that they were beneficial; & Dr. Cullen could not find a practitioner who could give testimony of their virtues from experience; & he was suspicious that the plants contain poisonous qualities, & that they contain belong to an acid class; & I believe they are really expunged from the London Pharmacopoeia. The dose of the root in powder was from ʒss to ʒss grains. In decoction from two drachms to half an ounce. Of the seed in infusion from ʒss to an ounce. This.

Class 15 Order 2.

Trichium. L. Pativum. Any Pepper grass. L. Virginianum Wild Pepper grass. The whole plant is hot like pepper. The root is cold & bland, & the poor man's pepper. Another species is called sciatia crepera, & Lepidium graminis folio. It is the Lepidium vulgare. The first of these plants grow wild by the sides of ditches in shady places. The second is cultivated in gardens for culinary uses. Both of these plants are recommended as aperients, stomachic, antiscorbutic & antispasmodic. They are used for the same purposes as the other sunny grass & the garden cress, having much the same general virtues; hence they are good in scorbutic complaints, when the viscid juices are in fault, & the chylochoetic organs are weak; in rheumatic & wandering pain of long continuance, & scorbutic rheumatism, & for promoting the fluid secretions, particularly that of urine. If beaten & applied to parts affected they help the sciatia, by irritating & drawing the blood & humors to the skin. The dose of the leaves in powder is from two drachms to half an ounce in the morning fasting. This.

Class 8. Order 2.

Lygonum. C. Punctatum. Any Biting pepper. Arsenic. Lake wood. Calage... is an astringent, aperient, & diuretic. The leaves resist putrefaction, open obstructions & restore urine, & are esteemed good in scorbutic, cachectic, humoral asthma, hypochondriacal distention, wandering gout, & suppression of urine. The fresh leaves applied in stomachic cataplasms, are good in foul ulcers, & for destroying fungous flesh. This.

*Malva. M. Virginica. Aug. Under Mal'ork.*

This with the Peruviana, or Peruvian mallow, & the Mauritiana or Mauritian mallow, when macerated like hemp, afford a thread much superior for spinning, to that obtained from the latter vegetable; & the cloth made of the three species before mentioned, is said to be more beautiful than that manufactured of flax. From the cultivated mallow, which produces the strongest & longest fibres, excellent cordage & twine have been produced; & M. De Lisle, fabricated a new kind of paper from different species of the mallow, which not only served for the purposes of writing & printing, but also appeared to be even more useful for drawing, & for the hanging of tapestries. (Don. Luc.)

Plaf. 12 Order 5.

*Spina. S. Umana. Aug. Queen of the Meadows.*

An indigenous perennial plant growing in moist meadows, & on the banks of rivers; & flowering in the months of June & July. Its stalk attains the height of four feet; & the frequent flowers, when infused in boiling water, impart to it a very agreeable odour, which arises on distillation; hence this is often employed by wine merchants, for improving the flavour of made wines. The roots are so powerfully astringent, that calf leather can be tanned by them in a fortnight. According to Tournefort the Russians prepare of these roots a palatable jam for cows or goats; & Claffen informs us, that the Icelanders dye a durable black colour, by a decoction of the whole plant. Hops devour the roots with avidity, goats & sheep also eat this herb, but cows & horses reject it. (Hid.)

Plaf. 20 Order 10.

*Limonium. Aug. Bidd.*

The natural history of the American oak, was first authentically given by John Philip von Sieber in his observations in the vol. 8. of the *Wissenschaften in Germany* in 1771. It was published in 1781, & more extensively by Andrew Michaux the celebrated Botanist, in 1791, many years after the Potomac Garden which was established by the late son of King of France near Charleston South Carolina. The main variety described as *alba* & *rubra*. The only report worth notice to be in the hands of every gentleman in the United States. Some others were sent in Philadelphia at the low price of \$10.



286 The common sort being, near the Craltor for Early day it is, the Roumpal,  
the large green, & the red near.  
The first three varieties delight in dry, warm soils, tho' the blue pea will also  
succeed on poor land. They are raised from seed which is sown from the middle of Feb.  
near to the middle of April, in the proportion of from three to five bushels per acre  
broad cast; but if drilled, two bushels will be fully sufficient. — Beside their utility  
for animal purposes, peas, when harvested dry, & ground into meal, are uncommonly  
serviceable for fattening sheep; as no other grain agrees better with those animals. If the  
straw be forwarded in autumn, & has been bound without injury, it will be little inferior  
to common hay, & afford a very useful article of fodder; on which every kind of cattle  
will thrive; & tho' it be apt to occasion gripes in horses, if given to them before the month  
of January, yet such effects may be corrected, by allowing a few turnips, cabbages, or  
potatoes, either with, or after they have eaten the pea straw. A crop of peas is far  
from exhausting the land that it may be considered an excellent & ameliorating one.  
The grey peas, if sown early toward the end of March, & ploughed in shortly before  
they flower, will prove a valuable dressing for wheat. — In common with all legumin  
ous fruits, peas possess a strong mucilage, with an earthy basis, & yield a very solid  
nourishment to persons of vigorous stomachs; but as peas of every description evolve  
a considerable portion of fixed air within the bowels, it is apt to excite flatulency &  
costiveness if eaten too frequently, or in too large quantities. On the other hand, peas boiled  
in a fresh or green state, are equally wholesome & agreeable; being less flatulent, & more  
easily digested, than after they have attained to maturity. Bread formed & baked of peas  
alone, is remarkably solid, heavy, & unwholesome. Beckman informs us, that such bread  
which new, had an agreeable taste, but was productive of hoarseness & sore throats.  
Experience, however, has shown, that three parts of rye flour, & one of ground peas,  
afford a palatable, & more nourishing bread than that made of wheat or rye alone.

### Class 12. Order 1.

Amygdalus. A. Persica. Ang. Peach.

A well known exotic fruit originally brought by the Romans from Persia to Italy.  
There are numerous varieties of this tree cultivated on account of this delicious fruit.  
Each yield on distillation a highly flavoured spirit which is deservedly much  
One or two drops added to a bowl of common punch greatly improves it. Indeed  
it is difficult to find a more agreeable mixture of this than such a combination.  
The flowers of peach emit an agreeable fragrant odour, & have a bitter taste.

distilled in a water bath Maria in a white liquor. Also to one pint part of the 28<sup>th</sup>  
part. & which communicates to a large quantity of other liquors a flavour similar to that of  
the kernels themselves. An infusion of half an ounce of the fresh gathered flowers, or  
some of them when dried in half a pint of boiling water, sweetened with a little sugar, is  
to be an useful exercise & vomituge for children. This.

Class 12. Order 5.

Prunus P. Communis. Am. Common Pear  
& valuable indigenous tree growing in woods & hedges & woods in various parts of Britain,  
beginning in the months of April & May.

The pear tree delights in rich soils & gentle declivities, but will <sup>not</sup> thrive in moist  
locations. It resists the severest frosts; its wood is smooth, light, & compact; & is used in  
considerable quantities by turners for making carpenter or joiner tools & for picture frames,  
which are stained black in imitation of ebony. The leaves impart a yellow dye, & are some-  
times employed to communicate a green colour to blue cloth. They are eaten by horses, cows, sheep  
&c. — In the wild state the fruit of the pear has an astringent & unpleasant taste; but  
when cultivated it is highly grateful, & skillful gardeners have obtained not less than 1500  
varieties by inoculating, marcotting, engrafting, &c. the common wild stock, with various of the  
best bearing trees. The most valuable of these, whether for the dessert, or for culinary  
uses, are enumerated under the article cochard. All the varieties of this tree are readily  
raised in any common garden soil, provided it be open & dry. They are propa-  
gated by engrafting, & by budding or inoculating, either upon free stocks, that is, in  
which have been raised from seed, or upon quince stocks. The latter, however, requires a rich  
moist soil. Sometimes the scions are engrafted on medlars in order to render them  
safe; & many men have ventured to bud them on white or hawthorn, when there has  
been a scarcity of original or free stocks. But such practice ought to be adopted only in  
cases of great necessity, as it renders the fruit stony, & otherwise diminishes their value.  
The astringent & salutary quality of pears depends not less on the state of ripeness or immaturity,  
which they are used, than on their different properties, some of them being hard, astringent,  
& difficult of digestion. The more juicy ones, however, possess a saccharine fluid  
which does not offend the stomach; nevertheless all the varieties are more flatulent than  
apples, plums, or the generality of fruit; & winter pears are particularly liable to such in-  
convenience; as they are commonly eaten at a period of the year, when the stomach requires  
relaxing, rather than cooling nourishment.

In dependence of their utility for domestic or culinary purposes, pears, if managed in a  
proper manner with apples for making cyder, afford a pleasant liquor known by the name of Perry.

genus *P. pyramis*. Syn. *Quina*. tree  
 Quina trees require no kind of propagation by layers, suckers, or cuttings. They require  
 very little pruning, the most important part of their management consists in clearing  
 their stems from suckers, & in cutting off such branches as interfere with each other. All  
 succulent shoots, that strike upward from the middle of the tree, must be kept  
 out the road be too much crowded with wood, which might prevent the growth of the  
 fruit. Quina trees are also highly esteemed, as stocks, on which peaches might with great  
 advantage be budded. This operation greatly improves the taste & flavour of them  
 peaches which arrive at maturity in summer & autumn; but it is by no means proper  
 in winter fruit, which is thus rendered hard & stony. In the colder countries of Eu-  
 rope, Quinas are not eatable in a raw state; nevertheless they possess antiseptic  
 properties, when dried, & contain a considerable portion of acid & mucilaginous  
 juice. Though their pulp be somewhat difficult of digestion, they seldom disagree  
 with the weakest stomach. The liquor expressed from them has frequently been given  
 in small quantities with great success in nausea, vomiting, & similar complaints.  
 This fruit is generally boiled & eaten with sugar in which form it may also be usefully  
 employed in cases of dysentery. One quart of the juice of quinas mixed with one pound  
 of sugar, & fermented, affords a delicious wine; or adding to the same quantity, one  
 pint of the best French brandy & four ounces of sugar a celebrated liquor is pre-  
 pared on the Continent & which is greatly prized as a cordial & stomachic, when taken  
 in the small quantity of two or three table-spoons full before breakfast. By boiling the  
 kernels of quinas in water, a mucus is extracted, which is often used in medicine as a  
 proper substitute for that of gum arabic. This

Clap 12. Order 1.

Genus. *Prun.*

A genus of plants comprehending 30 species - All the different varieties of plums  
 have been raised from the stones, & afterward grafted or budded on plum stocks. The best  
 for this purpose is the stone tree or Buckthorn. - Besides their utility as a culinary  
 fruit plums possess valuable medicinal properties. In a dried state they are all  
prunes & are eminently useful in cases of costiveness, accompanied by irritation the  
 would be aggravated by horeful laxatives; but they ought not to be eaten after



... for suppers unless mixed with the same...  
flatulency. With this exception they suit almost every constitution, & produce vom-  
ing & aperient effects; but when prunes do not operate sufficiently their power may be  
increased by combining them with a small portion of rhubarb, or cream of tartar.

If prunes be eaten in a fresh state, or before they are perfectly ripe, & in immor-  
dant quantities, they induce colic, loomings & similar affections in the stomach & in-  
testines. The large kinds especially ought to be used seldom, & with great precaution,  
being more dangerous than the smaller prunes; because the former are rarely permitted  
to attain to maturity. Thid

Class 5. Order 4.

Virginia. S. Procumbens. Ang. Peahort. Trailing Peahort. or Breakstone-  
... in America by Professor Cator, in the water. It flowers in the Month of  
May to August. This elegant herb is one of the smallest productions of the vegeta-  
ble Kingdom; its thread-like stem divides itself into many branches; the leaves are  
small & minute; the blossoms greenish white. & the whole plant scarcely exceeds two  
inches in height. Thid.

Class 20 Order 16

Pinus. Ang. Pine tree  
A genus of trees consisting of 30 species. (None of which grow in America)  
The species of pine are hardy trees. From this genus of trees is extracted the common  
turpentine, which on distillation affords the oil known under that name; the process is performed  
in the following manner: Early in the spring, the bark is sawed off the pine tree, in order  
that the sap may flow the more freely into the vessel placed for its reception. This is the  
common turpentine which is fit for immediate use; after the sap has ceased to flow, the  
tree is cut into billets, which is thrown into pits when they are set on fire; during the  
operation, a black thick matter sinks to the bottom which is conducted into a proper  
vessel which is known by the name of Tar which is ground into Savich for sale; but  
designed to be made into pitch, it is boiled in large cauldrons, without the addition  
of water or any other fluid; & on becoming cool it concretes into a hard black mass.

Ripida. Pitch-Pine. P. Taeda. Pitch pine - A common species in the United States  
to the height of sixty feet, much used for sawing into boards. It is the largest & heaviest

260 of all the pines. It is chiefly used for fuel, & for making charcoal; its knots being full of turpentine affords a light wrapping candles. Its root is collected & used for camp black. It also yields tar, & is sawed into boards, & makes strong planks for vessels.

P. Strobus. New England White Pine. One of the largest American trees. Dr Belknap styles it "the prince of the American forest, in size, age, & majesty of appearance." It abounds in the New England states. Great use is made of the timber for masts, yards, & bowsprits of ships. It is also sawed into boards which are much used for inside work of houses. The grain is smooth, & when free from knots, does not injure the workman's tools; but the softness of its texture, subjects it to shrink with the weather. Shingles are also made of this tree, & are thought to be as good as those of cedar. The spruce pine tho' of the same species is not so firm & smooth as the white pine, & is more sensibly affected by the weather.

P. Resinosa. Yellow Pine. is harder & heavier than the white, but never grows to the same size. Its planks & boards are in great demand for decks of ships & floors of houses. It is called Wemic Norway pine - red pine -

P. Nigra. P. Alba. P. Torreyi. Spruce. Black Spruce. &c. These are distinguished by the color of their cones which are white red & black. The grain of the wood is twisted, & makes bad wood on account of its continual warping. The young twigs of the black spruce are boiled till the bark may be stripped from the wood, & being sweetened with molasses makes a pleasant summer drink. Of this spruce is made the essence, which is as well known in Europe as America.

Class 10 Order 3

Dianthus. D. Barbatus. Sweet William. D. Plumarius.  
The species of pinks are beautiful plants & are generally cultivated in gardens on account of their fragrance. They are propagated by seeds as well as by slips & lay the latter of which should be planted three inches apart towards the end of July in shady borders towards the end of July. in shady borders. That have hitherto been well dug & ~~watered~~ moistened. Should the weather prove dry it will be necessary to water the plants daily till they have taken root; after which no farther care will be required than to hoe them from weeds & to transplant them in autumn to those borders they are designed to decorate. Mid

Clap 20. Order 13

2. *P. Occidentalis*. Mr. Fair's Camore tree. Button ball tree -  
 is indigenous in Virginia & the whole of North America & here it grows to an  
 enormous size instances having occurred in our museum eight or nine yards in  
 circumference & which when felled, produced twenty loads of wood. Both the Occiden-  
 talis & the Orientalis are highly esteemed for their beautiful & majestic appearance  
 thro' their leaves decay early in autumn. They are industriously cultivated in their  
 native countries, especially along public walks & other places of resort. on account  
 of their cooling & agreeable shade... The plant tree is very hardy, & will flourish  
 in any common soil or in a house; it may easily be propagated by seed cuttings.  
 Layers which should be committed to the ground in autumn.

This deciduous tree particularly the American species  
 is one of the greatest ornaments of modern plantations. its wood  
 is excellent for various articles of domestic furniture, especially for tables; because  
 at a certain age it abounds with veins, & when rubbed with oil makes in  
 beauty that obtained from the finest walnut tree... The dry leaves & branches  
 of this tree, according to Dambourne's experiments afforded a decoction of a very  
 fine bright red-brown tint; which, on adding different ingredients either annu-  
 and various shapes, or remained unaltered; so that they may with advantage be  
 employed in dyeing. Ibid.

Clap 4. Order 1

3. *P. Lancolata*. Ang. Ribwort Plantain, or Rib-grass.  
 is a perennial plant very common plant in pastures, & flowers in the month of June  
 in various remarks that this plant is eaten by horses, sheep, & goats, but wholly refused by  
 cows; though the richness of the milk in the noted Alpine dairies, is by Haller, attributed to  
 nutriment derived from this plant & the common Ladies Mantle. The former is often  
 directed for parturage, but does not answer the purpose unless combined with clover or  
 rye grass. The total absence of rib-grass, in marshy lands, is a certain criterion of the  
 different quality, & in proportion as such soils are improved by draining, this plant  
 flourishes & abounds. Dr. Wethering observes, that when it grows detached from other  
 grasses, for instance by the sides of foot-paths, he has never known cattle to touch the  
 ribwort plantain; but that they certainly eat it when mixed with other herbage.

Polypodium. Pol. Vulgare. Ang. Polypody.

Polypod. a genus of plants comprising 14 species. The vulgar or common polypody is perennial; grows on old walls, shady places, & at the roots of trees; it flowers from June till October. The root of this plant has a sweetish taste; but by long boiling it becomes bitter. When fresh it operates as a mild laxative, so that an infusion of six dram of this root, in half a pint of boiling water, may be taken in divided doses. Low-

Class 21 Order 8.

Populus. P. Dilatata. Ang. Lombardy Poplar.

It is a native of the northern parts of Italy; it also flourishes in moist situations, but will not succeed if its roots are too long covered with water. On account of its rapid growth, this species is greatly esteemed for ornamental plantations; its cuttings are useful for ship-poles; the wood being soft, free from knots, & easily worked, it is much employed by joiners, carpenters, & cartwrights; it may be wrought into very flexible shafts for carriages or felling for wheels. Further it forms excellent mast of small vessels. It is particularly serviceable for packing boxes; because the plank yielding to the nail is not liable to be split; & in case the box should be accidentally dropped on the ground, the board is not easily broken or splintered, as those of oak, & other trees. Lastly it appears from numerous experiments made by Dambourne, that the Italian Poplar affords a dye of as delicate a tincture & equally durable as the finest yellow wood; its tinging matter is more readily extracted; but instead of striking a proper green with indigo, it changes to an olive shade. The dry branches are preferable to those in a green state; nor should they be cut or bruised; being possessed of the property of fixing the colour obtained from Brazil & logwood.

Populus Bahamifera Baham Poplar

This is a native of Carolina, & attains a great height. It is best adapted to boggy soils; & as it grows with greater rapidity than any other species, it soon or pays the expense of planting. Its wood is very soft, spongy, light, & principally employed for packing boxes, though it also furnishes good posts for fences. Dambourne obtained from the Carolina as well as the other poplar a fine yellow, red, & similar grays which he used according to the quantity of wood employed & the length of time it was boiled. The balsamic juice expressed from the flower bud is probably the American gamboge, an excellent application to recent wounds, provided no nerves & sinews have been injured.

... your species of poplar grows in this town ... P. grandidentata & P. dilatata /

The different species of these trees produce on the upper part of their seed vessels, a woody or resinous substance which is of considerable value; by combining it with cotton ... which has lately converted this composition into wadding, counterpanes, gloves, stockings ... From a mixture of two ounces of the down before mentioned, & four ounces of hair ... obtained excellent hats; & according to his calculation, each poplar tree yielded not less than 400 lb of such material. How!

Clas 5 Order 1

Genus. S. Tuberosa Aug. Potatoe.

valuable root originally a native of America thence it was introduced into Europe, & subsequently into Britain about the commencement of the 17<sup>th</sup> century - we are numerous varieties of the potatoe, which are cultivated both for culinary purposes, & for the feeding of cattle. - The potatoe is one of the most valuable roots for culinary uses. When boiled it forms a principal article of food, & serves partly as a substitute for bread. Mixed with wheaten flour, fermented with yeast, & properly baked, it makes wholesome & nutritious loaf. - Potatoes are likewise valuable in fattening hogs, but if they be designed for bacon or hams, it will be advisable to mix gradually four bushels of ground peas with an equal quantity of the boiled roots, which portion will, it is affirmed, fatten an animal of twelve stone. In a boiled state they may be given to poultry in the same aspect & they will fatten in nearly one half the time that they will with any kind of corn or even meal by itself - Mr. Borsley has incontestably proved, in his excellent notes on husbandry, the superiority of potatoe as food for hogs, over Indian corn & is subject to cheapness, & the quality of nourishment afforded by both articles - In the feeding of hogs, if the potatoe has the least tendency to freeze, a little alum or stramonium bole may be given with them. - Sheep are very fond of potatoe. Boiling certainly increases their nutritive qualities.

Formerly, a kind of wash was distilled from the roots, but the Legislature has prohibited such practices. Besides a fine size may be prepared from potatoe, which answers all the purposes of that in common use, particularly for whitening ceilings, & walls. The attention, any quantity of new made potatoe starch should be boiled into a paste, a sufficient quantity of which ought to be mixed with the whitening after the latter has been diluted with water. The thus prepared is much cheaper, retains its whiteness longer, & is less liable to crack or scale, such as is mixed with animal glue. There is another economical way of employing the expressed from potatoe in the process of making starch or size. This liquor is as follows

294 for washing in new, white plain or coloured, silk handkerchiefs, stockings &c. with-  
out the aid of lye or soap: it is said to improve rather than diminish the luster, while  
it restores their original brightness & imparts a degree of stiffness to silk stuffs, which  
cannot be obtained in the common way of cleaning them. It deserves however, to be remarked  
that no discoloured or otherwise damaged roots must be used for this purpose. — Bakers  
Germany, further, convert the pulp of potatoes into yeast, by adding a small pro-  
portion (about the 8<sup>th</sup> or 10<sup>th</sup> part) of the latter, together with two drams of calcined  
& pulverized crab claws or oyster shells, & a similar quantity of burnt hair. — To  
every pailful of the preparation. This compound is asserted to increase the bulk  
of the paste, & consequently of the bread; but double the measure of it is required  
to serve as a substitute for yeast.

Further, the stalks of these roots, when cut in small pieces,  
afford a grateful food to cattle: the haulm has also been converted into paper; but it  
is more generally, & we conceive, more profitably employed for stable litter, or, when  
straw is scarce, instead of thatch for cottages. — Lastly, even the potatoe apples, may be  
usefully employed in domestic economy. In the new Swedish Journal of Agriculture  
for 1796, it is directed, that such apples should be collected while in a green & hard state;  
then well rinsed in cold water, & put for 24 hours into a strong filtered brine. Next,  
they are to be placed for six or eight hours in a colander or drain. When they ought to  
be boiled in good vinegar, with the addition of some spices, till they acquire a certain  
degree of transparency, without becoming too soft. Thus prepared, they will afford a most  
palatable & less harmful pickle than either olives or cucumbers. — Ibid.

Class 16. Order 3.

Raphanus R. sativus. Ang. Garden Radish.  
It is an exotic species originally from China; & which is cultivated for the table. There are several  
varieties of it, known under the names of the small topped, deep red, pale red or sa-  
voury, & the long topped, striped radishes; all of which are annual plants; but the small  
topped is generally preferred in the vicinity of London on account of the little room which  
it occupies in the ground — Radishes are esteemed aperient, a stomachic & antiscorbutic  
when eaten in moderate quantities they are in a certain measure sedentary to persons of  
strong habits, but are in general apt to produce a considerable degree of flatulency in those  
whose stomachs are relaxed. The small topped colored radishes are generally superior to the sa-  
voury; as they are more easy of digestion, & tend to improve the appetite. However, in  
the latter, when they have been kept for some time, as they are then entirely indigestible  
& render the breath extremely offensive. — Ibid.

ber. R. Occidentalis. Ang. Black or Virginian Raspberry. The  
 fruit is white, black sometimes, & is uncommonly delicious, but smaller than  
 species that is indigenous to Great Britain. It thrives in the open air of our climate.  
ber. Odoratus. Sweet scented raspberry. Flowering raspberry, with a plain stalk, & a  
 many, one, coloured flower, & numerous palmated leaves. It attains the height of eight  
 ft. & forms a spreading shrub, with close foliage. Its bright red berries, are of a pe-  
 rianth flat shape, & have an agreeable sub-acid, vinous taste (Sibth)

Clas 10 Order 2.

saxifraga. S. Virginianensis. Ang. White Saxifrage. Rock Saxifrage  
 common white Saxifrage was formerly in great request for its supposed efficacy  
 curing ophthalmic & gravelly complaints; at present it is totally disregarded.  
 We should wish to have given a coloured engraving, nor described the specific cha-  
 racter of this plant if it were not uniformly discovered in soil beneath which a bed  
 of gravel will be found at no considerable depth. Hence it affords a certain guide  
 which surveyors & landed proprietors may be directed in digging for that useful  
 soil, especially in places where other stones cannot be easily procured for repairing  
 the road. (Sibth)

saxifraga. Pennsylvanica. Ang. Water Saxifrage. Meadow Saxifrage.  
 It has a perennial, long, thick woody root, white within, & hairy at the top, with stems  
 that rise from one to two feet in height, which are thick round, furrowed, smooth, green  
 reddish toward the bottom & branched. The leaves are smooth, of a deep green, & divided in  
 longish, narrow pointed, stiff segments, with an acid taste. The flowers grow on the  
 top of the branches in umbels, which have five leaves or petals in the form of a cone, &  
 a whitish colour. These are surrounded inward by fruit composed of two short furrowed  
 seeds, convex on one side & flat on the other; they have a strong pleasant, & a vinous  
 acid taste. It grows almost everywhere in moist places, & has been looked upon as ex-  
 ceedingly good for the gravel, the root being a powerful diuretic, but it is not now much  
 used for that purpose. Brooks. (It is used as a pot herb in the spring of the year.)

Clas 12. Order 5

ber. S. Americana Ang. Service tree. Mountain ash-  
 Service tree is cultivated in Britain, principally as an ornament for diversifying ex-  
 tensive plantations; as it grows to the height of 40 feet. It is propagated by sowing the seed, which  
 after the fruit is ripe in pots, which must be sheltered during the winter, & when

206 transplanting advances it will be proper to plunge them in hot bed, & to water them frequently. During dry weather. Towards the middle of October the young plants may be removed to a warm spot of light soil, & placed one foot apart from each other, in rows two feet asunder. Here they should remain for three or four years: at the expiration of which, they ought to be transplanted to the place appointed to their growth. Hid. Soil. C.

Clas. 6. Order 1.

Galanthus. G. Nivalis. Ang. Snow. Drop. or Fair Maid of February.

The snow drop presents a beautiful little flower, & is chiefly esteemed on account of its early appearance; & adorning the garden when the ground is covered with snow: it is divided into three varieties, known under the names of single, semi-double, & double, which differ only in the seasons of their flowering. They may be easily propagated in any soil, & will multiply exceedingly by offsets from the roots.

The roots of the snow drop may be made subservient to an useful domestic purpose: Dr. Darwin thinks that if they were dug up in the winter & preserved in a similar manner they might afford a nutritious powder, resembling that of Sulphur. He observed that he once boiled a few; which on tasting them, possessed no unpleasant flavour. He is therefore of opinion, that if just like seed could be procured from this plant, it might be advantageously cultivated for the same purpose as the orchis; a conjecture which is corroborated by the experiments of Ghaditsch, who obtained from the roots of the snow drop an excellent starch. Hid.

Clas. 10. Order 1.

onion. S. Peracum. Ang. Low. Thrift

It grows on cultivated ground, damp hills, & in hedges; its yellow flowers appear from June till August. The leaves of this crockum weed are the favorite food of hares & rabbits; they are likewise dug up & eaten among other culinary herbs. The roots have occasionally been converted into bread. Sheep, goats, & swine refuse <sup>to eat</sup> this vegetable, but it is not rejected by horses. Hid.

Clas. 21. Order 5.

Spinacea. S. Oleracea. Ang. Spinach, or Spinnage.

It is cultivated for culinary purposes. If intended for winter use it is propagated by the seed, & sown in the open ground towards the end of July, & during frost weather. When the young plants appear they must be carefully covered, & thinned to the distance of six inches in October they will be fit for use; when the longer leaves only should be preserved.



Those in the centre being supposed to grow to a large size. so that a bush in 2 or 3 years will supply of this vegetable during the winter till the spring comes for it is fit for the table & rich generally succeeds in April.

This vegetable is greatly esteemed at the table but is not so good with small children & people of weak digestion without being duly digested; & consequently affords a nourishment. It is particularly in use for persons of weak & relaxed habit; as it dilates the alimentary canal; excites looseness & not unfrequently occasions the stium or acidit. in the stomach (ibid)

Class 3. Order 1

Thoxanthum. A. Odoratum. Ang. Sweet Vernal grass. Spring Grass  
An indigenous perennial. growing in meadows & pastures; flowering in the month of May. This is one of the earliest British pasture grasses & occasions the delicate flavour which is in newly made hay. It is eagerly eaten by cows, horses, goats & sheep on account of its aromatic taste, & juicy aromatic nature. Mr. Swayne, however, observes that it abounds with small particles on joint tops & that it appears to be of little consequence as it is not the very productive to the farmer nor palatable to cattle. Nevertheless, the agriculturists are of a different opinion. & Mr. Solmes LITTLE & PATER of the British Museum & I have observed, that the vernal grass would be an excellent addition to any sowing it in the proportion of one eighth. This judicious advice every practical farmer will be inclined to adopt; as it is a well known fact that this grass is not only a small spread, & increases in its own stalks when cultivated in several situations but it also effectually checks the growth of weeds in your swards. It is further remarkable that the root of this grass possesses a strong medicinal quality that of much. The dried liquor is on the continent employed in preparing an excellent flavoured snuff & tobacco (ibid)

Class 4 Order 2.

Urtica. C. Verna. Vernal St. grass. Water St. grass. Water Fern, or St. John's Wort. grows in ditch sides, ponds, & slow streams; it flows from the first of August.  
Urtica. C. Sativum. Water St. grass abounds in ditches & still waters. It is a very good vegetable. It is used in the East to call a herb to walk on without being hurt. They make a tea of it, only plant it in the water, and eat it with a little salt & vinegar. The juice is also used for the cure of the scurvy (ibid)

*Carum* L. in India they make the garden.  
 It is an annual species which is generally raised in our gardens as an ingredient in  
 the salad. It is propagated by scattering the seeds in spots of open ground at intervals  
 from the beginning of June to the end of July: in order to obtain a supply for the  
 table the young plants must be removed to beds or borders that have previ-  
 ously been well prepared by the spade: & as the chief excellence of endives consists  
 in the whiteness of its inner leaves, it will be advisable either to cover them with  
 glass pots, or to tie them closely together, when nearly full grown, so as to ex-  
 clude them from the sun for two or three weeks in consequence of which they will be  
 come perfectly blanched. In the winter, they are either covered with straw, & mats,  
 or preserved in fresh sand in a dry cellar. (Vid)

Order 19. *Helianthus Annuus*. Sun flower.

It is easily propagated in any common soil, either by sowing the seeds, or by planting the  
 roots in the end of March. Within a few weeks, the plants will appear: & when  
 about six inches high, they should be removed into the borders of gardens, or other places  
 well suited for this purpose, at the distance of 15 or 18 inches in quincunx order. They must  
 be occasionally watered: & if wood be properly conducted they will vegetate with con-  
 siderable rapidity, as to attain the height of six or eight feet; in July they bear flowers, which  
 continue to blow till October, when they produce ripe seeds, which on expression yield  
 a large proportion of palatable oil. The young flowers of this plant may be  
 used for eating like artichokes; the stalks are of considerable size after exceeding  
 an inch in diameter; hence they may, with advantage be raised in situations where  
 wood is scarce, indeed we are not acquainted with any vegetable that is likely to ef-  
 fect greater advantage, to an industrious cultivator who prepares a few acres of ground  
 which is not sufficiently fertile for corn or pasture grass. It however requires to be  
 remarked that it greatly tends to exhaust the ground; as it requires constant water-  
 ing, & will not be productive without artificial irrigation.  
 Some papers on the subject of sun flower oil in the 9<sup>th</sup> vol. of the Trans-  
 actions of the Royal Society. It appears that one bushel of the seed yields three quarts of oil  
 & that the quantity of seed is produced from one hundred plants set about three  
 feet apart, in the same manner that Indian corn is planted. The oil is thin,  
 & clear of an agreeable taste. It is recommended to set the seed in a hole, & when the



200  
The plant is a valuable medicinal paper of a superior quality. Its stalk may be a substitute for hemp. In Canada a few are extracted & evaporated in the juice of it. In Germany the young tops are eaten as a pottage. In the opinion of some authors it is poisonous, that the only juice of the plant is poisonous. The plant is found in the neighborhood of Philadelphia & elsewhere to be cultivated for the manure of the garden in which it may be applied. Dr. Gutherer & others in their vol. 5 say that in Germany the plant is cultivated extensively & that stuffs have been made from it which rival in lustre the true animal silk. The stems are said to dye a good blue & also to answer for candle wicks. (P. 10)

Clas. 10. Order 1.

*Oniscus C. lanceolatus*. Ang. Sp. Smith.

It grows on rubbish & road side. When it flowers in the month of July & August... According to Dr. Nithing, this species vegetates on ground newly turned up & then in the end with thin; under the shelter it affords, new plants will speedily appear, & the whole become fertile. Its flowers like those of the artichoke possess the property of curdling milk. It is not eaten by horses, cows, or goats; & is totally refused by sheep & swine.

All the species of this neglected vegetable may be usefully employed for various purposes: thus the seed covers of the thistle afford both a valuable material for manufacturing Paper, & a kind of strong cloth; the ashes obtained by burning the whole are of great service in glass houses; & the young tender stalks may be boiled & eaten as a substitute for asparagus. (P. 11)

Clas. 10. Order 1.

*Brochoron O. acanthium*. In Cotton Thistle.

A biennial, growing to the height of 6 feet on rubbish & road side, when it flowers in June. This vegetable is refused by cows & horses; - its exuberant juice, however, among the ancients reputed to be a specific in cancerous ulcers. The receptacles, together with the stems may be boiled & eaten like artichokes. The seeds, when sown & covered, the seed is usefully employed in the manufacture of cloth & paper. The seeds of this remarkable plant also grow in great abundance to the southward of the Bay of Biscay: we learn from DuRoi a French writer that he collected a quantity of the seed covers which he obtained 12 lbs weight of seed, & on

Class 14 Order 1

Nymus S. Vulgaris. Aug. Garden Nymus

is originally a native of the southern parts of Europe but is now generally cultivated in our  
gardens. It may be propagated either by the seed, by offsets from the roots, or by slips put  
in light, rich & well prepared soil; its aromatic leaves are employed in distills. & for other  
inary purposes. In its medicinal properties, this is one of the most powerful aromatic  
plants; its essential oil is often sold in the shops as a substitute for that of Stoechad-  
rum. (N<sup>o</sup>.)

Class 17. Order 10

Vicia. Aug. Vetch. Fav. a genus of plant comprehending 20 species, three of which  
are in the town V. Sativa. V. Sativa. V. Cracca.

Cracca. Aug. In the vetch.

It is frequent in shady places, meadows & fields; flowers in the month of July &  
August. Both this & the Sativa are said to restore weak or stunted cattle to their former  
strength more quickly than any other vegetable kind to which it is applied.

Sativa. Common Vetch. or Fav. This is in the meadows, pastures & some fields & here  
it flowers from April to June. This species is one of the most valuable of the vetch kind

as it divides into three varieties, namely, 1. In Summer vetch or green vetch which  
is sown in the month of March or early in April in the proportion of 8 or 10 bushels  
per acre; the other shall be sown in the month of April in the proportion of 8 or 10 bushels  
per acre. The variety is chiefly proper for the use of green vetch or green vetch for  
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Triticum T. Hybrumum Ang. French wheat. It is principally raised in Great Brit. and the United States. Its grain are somewhat fuller than those of the Eastern or Summer wheat. & its chief varieties are 1. The T. Hybrumum, spica & grana rubra or common wheat with a red ear & grain. 2. T. Hybrumum rubrum, spica & grana alba, or common wheat with a white ear & grain. 3. T. Hybrumum rubrum, spica & grana alba, or Winter wheat, with white ear & grain. These varieties are destitute of beards & should not be sown earlier than in September, nor later than in November. They produce the most valuable wheat, which yields the largest proportion of flour.

Triticum T. Compositum. Egyptian wheat is remarkable for its uncommon fruitfulness: its straw is strong & tough, whence it has received the name of round wheat. The grain however, do not yield so large a proportion of flour or meal as any of the preceding species or varieties; & the flour is scarcely superior to that obtained from the finest barley. (Mind)

Class 20 Order 2.

Salix Ang. Willow a genus of trees comprising 42 species.  
S. Vitellina. Golden or yellow willow abounds in our hoths & flowers in May. Its shoots are used by cordle or basket makers; its white, tough, pliant twigs are employed by basket makers & gardeners for tying up the branches of well & espalier trees. The wool surrounding its twigs, when mixed with cotton affords excellent yarn for manufacturing purposes.

S. Incana. variety purpurea. v. Helica. v. monandra. Rose, purple, or red willow grows in hedges, wetting places, & the sides of rivers, where it blossoms in the month of April & May. Its long, slender & flexible shoots are manufactured into baskets, cordles, & other articles of wicker work. This species eminently deserves to be cultivated in the sandy banks of rapid streams; as it is one of the most useful trees for consolidating loose soils, & even drift sands.

Salix Alba. Ang. White or common willow. It abounds in wood hedge rows in wet meadows, & pasture grounds, where it attains a considerable size; flowering in the month of April. Its blossoms are eagerly visited by bees; its leaves & young shoots are eaten by horses, cows, sheep & goats; the wood is employed in making poles, hoops for casks, staves & timber for fuel. The bark communicates a cinnamon colour to yarn, & it is not only advantageously employed in tanning leather, but has also like that of the cork & smooth willow been successfully administered in agues. The Red, the Stone & Black willow are also met with in the same manner. The Red willow is met with in the same manner. The Red, the Stone & Black willow are also met with in the same manner.

loves of one draim every four hours, but in the pits in a few oblique cases  
 found it necessary to mix one fifth part of Peruvian bark with that of common  
 bark. As this tree frequently grows in wet marshy situations, where aquas are most  
 salutary, its bark remains to afford a valuable substitute for the foreign drug, espe-  
 cially as the price of the bark of the latter has lately been exorbitant, & that the  
 cannot easily procure it, while its quality becomes every year more impaired by  
 & fraudulent adulterations.

Babylonica or Weeping Willow is a native of the East. Since its culture has  
 been introduced into Britain & from thence into the U. States, it flourishes by the sides  
 of rivers, attaining to a considerable size; & its long, depending branches contribute greatly to de-  
 corate the scenery: it is raised chiefly for ornament.

All the species above enumerated delight in moist situations. They may be easily propa-  
 gated by planting sets, cuttings or truncations of willow about 6 years, either in spring  
 or autumn: as they speedily take root, & in the course of a few years, amply repay the expen-  
 ce which is bestowed on their culture. The yellow willow ought never to be planted too near  
 rivers or springs, because its spreading roots retard their course; on the contrary this spe-  
 cies may with advantage be propagated in swampy situations, as its roots tend to consoli-  
 date the ground; & after a few years, the soil will generally be converted into a firm one.  
 (Ibid.)

Class 12 Order 5.

Genus P. Malus. Arg. Appl. tree  
 An apple tree is too well known in this country, to require a minute description. It grows  
 to the height of twenty or thirty feet, & produces a considerable variety of fruit. Botanists  
 are of opinion, that the wilding, or crab-apple of the wood & hedges, is the original kind  
 from the seed of which the apple now cultivated was first obtained. - The varieties of  
 this species are multiplied to some hundreds, in different places, all having been first  
 accidentally procured from the seed or kernel of the fruit, & then increased by grafting  
 on crab, or any kind of apple stock. Notwithstanding the numerous sorts, not above  
 thirty or fifty, are raised in the nursery. This fruit arrives at full growth in success-  
 ful order from July to the end of October, but comes to maturity only after gathering  
 several of the winter kinds may be preserved for many months - Apples were  
 excellent fruit for the dessert, the kitchen, & for making cyder. The following are  
 most esteemed for eating, are ranged according to the successive order in which they

304 when; the white geminating, magaret apple, summer pearmain, summer queening  
embroidered apple, golden rennet, summer white calville, silver pippin, aromatic pippin,  
pin, la rennette grise, la hante bonte, royal sunset, Whiting's russet, Sharp's  
russet, the pin apple, golden pippin, non-pareil, & from de api. Those for cu-  
linary use, are the coding, summer may gold, summer red pearmain, from violette  
Spencer's pippin, the stone pippin, & baked pippin. Those most esteemed for making  
cydes are, the Devonshire royal wedding, red-streak apple, Whitesour, Herefordshire  
under leaf, John apple, or deux ames, everlasting hanger, & gemnet noyze.

Among all the fruit growing in this country, says a celebrated botanical writer,  
apples justly deserve the preference. In raising these useful trees for orchards  
or fields whether for cydes or baking, the wild crab kench are the most suitable  
as they yield hardy stocks, which are better able to endure cold & coarse lands,  
take firm root & produce larger trees. Where these seeds cannot be conveniently  
procured, the kench of common apples may be substituted, especially with a view  
of engrafting them. Altho' the former do not bring forth trees bearing the same  
kind of apples, yet they thrive without grafting, & their hard fruit may, notwith-  
standing its astringent & acid properties, be advantageously converted into cydes.

Linnæus considers the apple & the quince as species of the pear tree, or Pyrus.  
All the varieties of which are hardy, & will succeed in any common garden soil  
& planted in a free situation. They are propagated by grafting, & budding upon  
any kind of pear-stocks, occasionally upon quince, & sometimes upon white thorn-stocks.  
For further particulars concerning this valuable fruit & the method of cul-  
tivating it see that most excellent work, Forsyth on Fruit-trees

Class 20. Order 9.

Bea. 2. May. Ind. Indian Corn.

The uses to which this invaluable plant are applied in the United States are well  
known. The articles of diet into which it enters as a component part, are various & im-  
portant. Alone, it is served up in several parts, are various & important forms,  
all of which are excellent. As a strong nourishing food for horses & swine, it is prob-  
ably superior to any kind of grain. Many other articles will fatten animals, but  
it is corn alone upon which we depend for obtaining that whiteness in the fa-



which are so valuable in slaughter animals. Experience proves that corn <sup>305</sup>  
in a mill, will go one third farther in feeding beasts, than when given whole. The stalks &  
of corn, if carefully stacked & cut have been found by a gentleman (P. W. Egger) a  
her food to oats, for his coach horses. By a powerful cutting box, the stalks & blades were  
small, & given sometimes alone & sometimes with oats, & were observed to increase the spirits  
of the animals in a very sensible manner. The reason is evident; the stalks, especially  
two lower joints, abound with sugar, & was extracted during our revolutionary war, & made  
of the most nutritious articles in nature. Considering the importance of the use of the  
it is truly melancholly to see acres covered with them in winter, in some parts, instead  
being bound for cattle. In the Venetian territory, according to the late Dr. Scan-  
ce, the blades of corn are pulled, dried, & given to cattle without injury to the crops of corn.  
Burdley says he stripped 150 hills of corn, & cut off the tops when the corn was not  
without any difference being observed between the stalks so treated, & the rest of the field.  
He also states, that corn is sown broad-cast, upon highly manured places near the  
ch, & when it reaches its highest growth, & the tops begin to wither, the stalks are  
down morning & evening, & given to cattle in the stable. These facts may be useful  
to those who want fodder, & have corn; but barley straw or hay, ought to be cut with  
corn, or blades & tops to prevent the beasts from becoming hoarse. It has already  
been said that the cobs of corn are chopped fine by mills for cattle in Lancaster.

The blades of corn make a good coarse paper, & may be a valuable substitute  
in a scarcity of that article. Ibid.



Fig 1

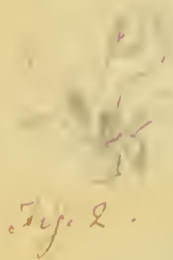


Fig. 2.

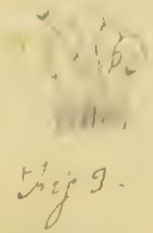


Fig 3.

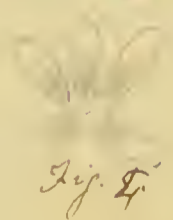


Fig 4



Fig 5.



Fig. 6.

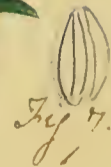


Fig 7.

*Triosteum perfoliatum*  
 Sweet root. Horse Ginseng

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 root

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... the ...

Leaf 5. Order 1.

*Aspidopteryx* Ang. Fever root. Horse gingiv.

is a whitish plant. & though met with in most parts of the United States, it rarely, I believe, is in large quantities. About Boston it is found in several places at the border of woods in rich situations. Its common names are fever root, & wild yucca. Proof above, that it is rare, & well occurs in limestone soils. With us it flowers in June & ripens its fruit in September.

The genus *Torontium* is found in the class *Polypetalis*, & order *Monogynia*. Its natural place it among the *Aggregata* of Linnaeus & the *Caprifolia* of Jussieu. - This plant was the subject of an interesting communication to the Linnaean society of New England, by Dr. John Hall. The experiments made by him on its medical uses & pharmaceutical preparations, & numerous & serve to throw much light on its properties. In trying the solvent power of water & alcohol, he found that water afforded a much greater quantity of extract than alcohol, & that the spirituous extract was perfectly soluble in water, whence he infers that no resin or gummy state exists in the plant. He discovered no volatile oil by distillation, nor any other mark of activity in water distilled from the plant. He concludes also, that no free acid exists in this vegetable. Of the different parts submitted to examination, the leaves yielded the least quantity of soluble matter, but the root afforded that of the greatest activity. By digestion & evaporation with water an ounce of the dried stalks afforded one drachm of extract; an ounce of the dry roots, two drachms & two scruples, & the same quantity of ~~root~~ leaves, one ounce. From a similar treatment of equal portion with alcohol, rather more than half above quantities of extract were obtained.

The sensible qualities of the root were found essentially different from those of the herb. Both of them possess a large share of bitterness, but the root has also a narrow taste & smell somewhat approaching to that of *epicacuan* ha. The medical properties of the *Torontium* are those of an emetic & cathartic. In the above dissertation, about thirty instances are detailed, in which different preparations, & quantities of the article were given to various persons with a view to their medicinal effects. The general inference to be made from them is, that the bark of the root acts with tolerable certainty, as an evacuant upon the alimentary canal, both by emesis & catharsis. When given alone, either in powder or decoction, the instances of failure were not numerous, & when combined with calomel, its action was attended with a certainty, hardly inferior to that of jalap. The aqueous & spirituous extract of the root were likewise efficacious, & nearly in an equal degree. Proof of the difference between the ~~herb~~ ~~root~~ ~~leaves~~ ~~stalks~~ ~~the dried~~

The late Professor Barton of Philadelphia, in his Collection towards a Materia Medica of the United States, speaks of this plant as a mild & good cathartic, sometimes operating as a diuretic & in large doses as an emetic.

My own experience with this plant has not been extensive, yet sufficient to satisfy me of its medicinal power. Where I have administered it, it has generally proved cathartic, a larger dose, however, being requisite for this purpose, than of jalap or aloes. It has sometimes failed to produce any effect, & I am inclined to believe that its efficacy is much impaired by age. Those who may incline to employ it, will do well to renew their stock annually, & to keep the powder in close stopped phials.

A dose of the bark of the root in powder is twenty, or twenty-five grains & of the extract a somewhat smaller quantity. (Bigelow's Medical Botany)

- Fig. 1. Torontum Perfoliatum.
- Fig. 2. A flower separated.
- Fig. 3. The corolla opened, showing the stamens & style.
- Fig. 4. The calyx.
- Fig. 5. The fruit crowned with the calyx.
- Fig. 6. The same dissected to show the three seeds.
- Fig. 7. A seed.



*Arbutus Uva ursi*  
Bear-berry

Fig. 1. *Arbutus Uva ursi*, the American variety

Fig. 2. The magnified corolla shown showing the insertion  
of the stamens

Fig. 3. Calyx, nectary, ovum & style magnified

Fig. 4. Calyx & nectary

Fig. 5. Berry.

Vertical text along the left edge, likely bleed-through from the reverse side of the page.



Fig. 1. A branch of *Datura Stramonium*. the simple variety  
with leaves & flowers

Fig. 2. Stamens & style

Fig. 3. Transverse section of the pericarp. showing the cells, receptacle & seed.

Commencing doses of the Stramonium when properly prepared are as follows -

- Of the powdered leaves - 9 grain
- ... powdered seeds  $\frac{1}{2}$  a grain
- ... inspissated juice or extract 19 grain
- ... extract of the seeds  $\frac{1}{4}$  to  $\frac{1}{2}$  grain
- tincture from 15 to 20 drops - Wigston



Fig. 1

Fig. 2

Fig. 4

Fig. 3

Geranium maculatum. Crown-foot Geranium





*Gentiana Saponaria*

Lap. Gentian

336



29

30

*Panax quinquefolia*. Ginseng

21



*Cypripedium Spectabile*  
Gay Ladies slipper.



*Cypripedium Humile*

Low Ladies slipper

Variety of Humile



*Sanguinaria Canadensis*  
Blood Root



Fig. 2    Fig. 3    Fig. 4    Fig. 5  
Rhus Vernic.    Poison Sumach



*Phytolacca Decandra*. Poke weed. Crow berry



Fig. 2

Fig. 1

Fig. 3

*Datura Stramonium*  
Thorn Apple





*Arum Joffhildii*  
 Wild-tornip



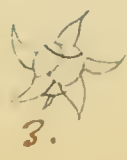
Fig. 1

Fig. 2. Fig. 3.

*Conium Maculatum*  
Poison Hemlock



Fig. 1.



*Cianta Maculata*



*Eupatorium Perfoliatum*  
Thorough-wort



*Solanum Dulcamara. Bitter-sweet*

2722

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*Asarum Canadense*  
 White-Snakeroot. Wild-ginger



2.

*Solidago*

*serotina*



3.



4.

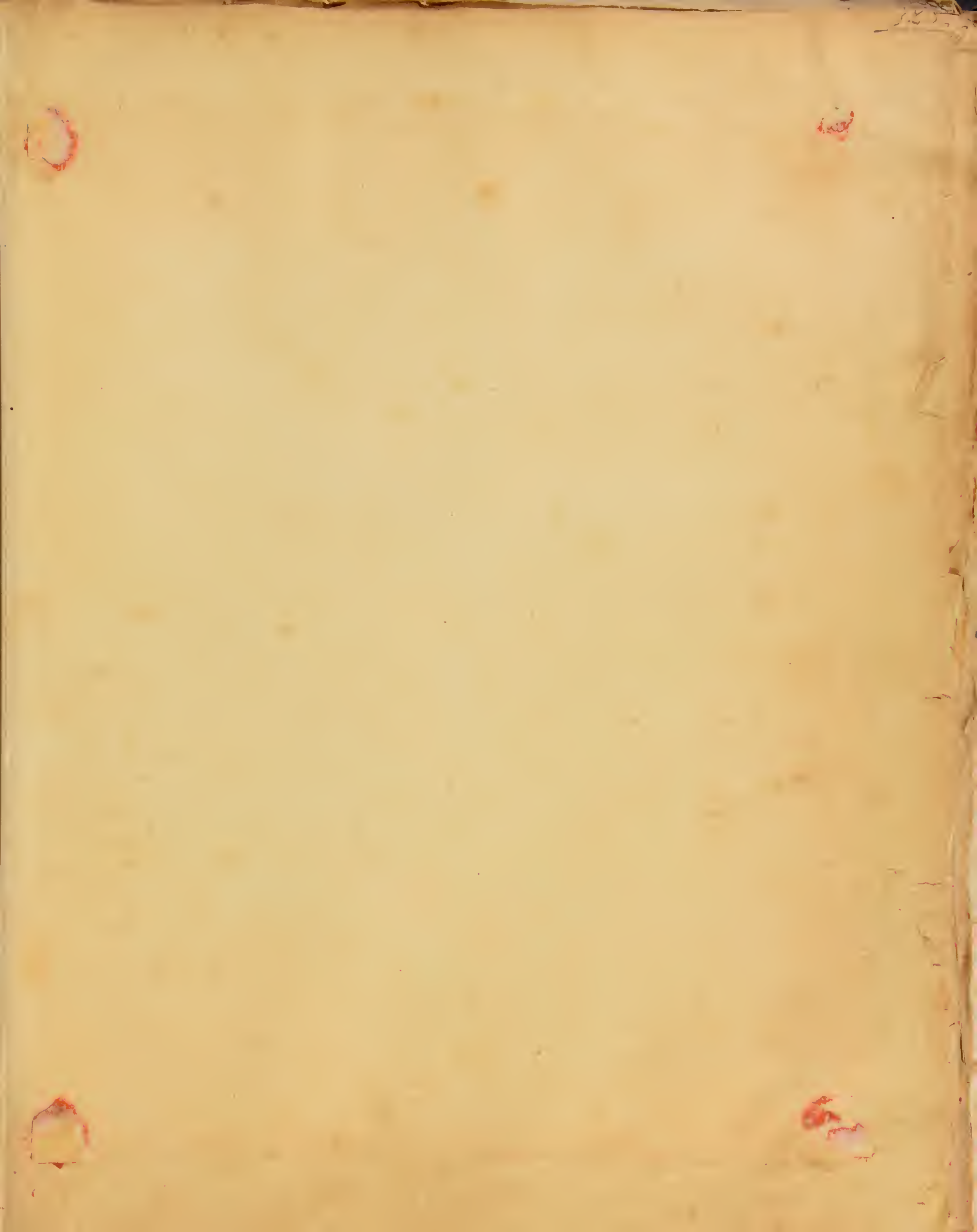
Sweet-scented Goldenrod Some Goldenrod



*Hyoscyamus Niger*  
Henbane









1. *Spigelia Marylandica*  
Carolina Pink. root



*Cirsium Horvicensis*  
Canada Thistle



*Apoynum Androsamifolium*  
Dog. bane



*Magnolia glauca*  
 Beavers. tree. Small Magnolia

38  
32

38



*Cypripedium pubescens*

Yellow Indian Slipper



*Orchis Fimbriata*      *Orchis*



*Thalictrum cordifolium*  
Mites. Wort. Cool. wort



*Convallaria umbellata*  
Wild lily of the valley







*Thalictrum Semifolia*  
Thalictrum



*Anemone Nemorosa*  
Low Anemone



*Hepatica Triloba*  
Liver-leaf

41



*Chimaphila Umbellata* Laton  
*Pyrola Umbellata* (Biglow)  
 Prince's Pine - Peppisway



*Bellis Perennis*  
 Daisy



*Lisoynechium Anceps*  
Blue-eyed grass



*Erythronium*  
Dog. tooth  
Adders

*Dent. Canis*  
Violet  
tongue

51



*Lythrum Virgillatum*  
Swamp Willow-herb

52



*Oenothera Biemla*  
O. Biemla  
Dwarf Evening Primrose

53



*Cistus canadensis*  
Rock-rose



*Mitella diplyyila*  
Currant-leaf



*Panax trifolia*  
Dwarf groundnut  
False ginseng



*Santalin galericula*  
South. cap

359



Gerardia Purpurea  
 Cople Gerardia



Trichostema Dichotoma  
 Blue-culo

*[Faint, illegible handwritten text]*

59



*Arctostaphylos Verticillata*  
*Arctostaphylos*



*Bartonia Coocinea*  
 Painted-cup



60



Uvularia angustifolia  
 Bellwort

Small text at the bottom of the page, possibly a date or location, which is mostly illegible due to fading and bleed-through.



*Sanguinaria*  
Barnet

*Canadensis*  
Fertigage



*Sanguinaria* *Canadensis*  
root



*Marsh Rosemary. Statice Carolina*

*Miss C. Neveu del.*

*Sh. & Co. 17, Lomb. St. London.*

cond



*Digitalis Purpurea*  
 Purple Fox-glove  
 Leaves & Flowers



*Digitalis Purpurea*  
 Purple Fox-glove  
 The flowers



*Erigeron Bellidifolium* Thabane



*Cymbidium Pulchellum*  
Grass-pink



*Passiflora*

*Passiflora*



Rosa. Tulipa. Viola  
Rosa. Tulip. Violet.



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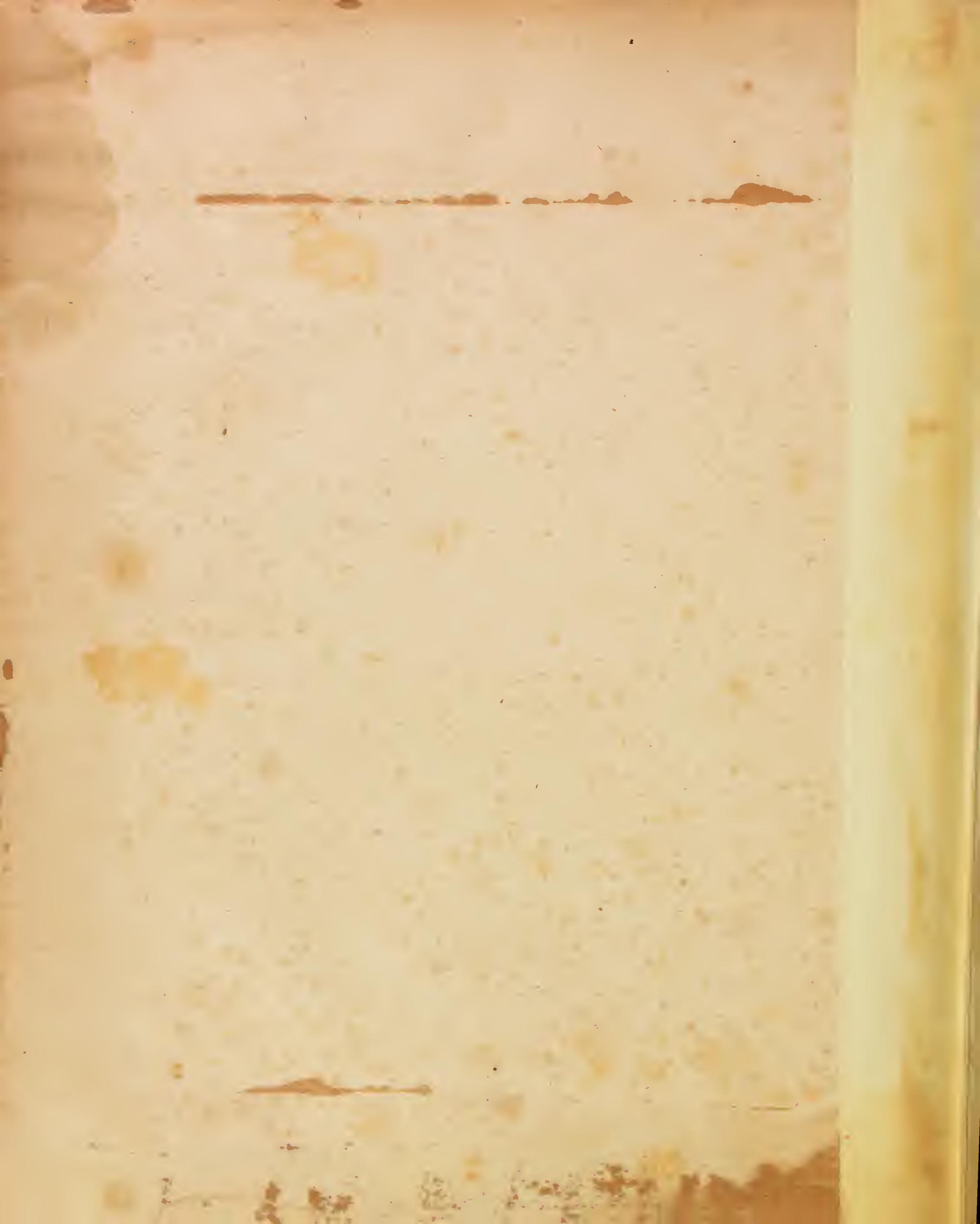
Lonicera sempervirens  
A Species of Honeysuckle.













Mentha Viridis











*Celastrus Scandens.*











858

*Pelargonium Quercifolium.*



## PELARGONIUM QUERCIFOLIUM—OAK-LEAVED GERANIUM.

CLASS, MONADELPHIA ; ORDER, HEPTANDRIA.

NATURAL ORDER, GERANIACEÆ.

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**GEN. CHAR.** Calyx, five parted, upper divisions much the broadest, terminating in a funnel-shaped, capillary nectary. Corol, five petalled, irregular, upper petals very showy, broader than the lower, and covered with colored veins. Arils, five, each one seeded and awned. Anthers, seven. **SPEC. CHAR.** Umbels, sub-many-flowered. Leaves, simulating the oak. Filaments, ascending at the apex.

In the description of the *Geranium Robertianum*, we reviewed the prominent characteristics of this natural and exceedingly beautiful order. This as well as the most of our conservatory species, is a native of the Cape of Good Hope. This geranium will show the celebrated spiral air vessels to very good advantage; and those who are curious to witness the secret workings of vegetation will find much to learn and admire in its structure. For this purpose, place one of the petals upon a piece of perfectly smooth and flat glass, such as is usually furnished for the transparent stage of a microscope, wet it with water, and then lay over it another flat piece of glass. Press the two firmly together, and by degrees all the air will be squeezed out of the petals and it will become transparent. With a good magnifying power all the air vessels of the veins may be distinctly observed, looking like fine threads of silver wire twisted upon a spiral spring.

It has been well remarked, that this race of plants wants but a greater capability of endurance to the cold, to make them the most valuable as well as confessedly the finest productions of the vegetable kingdom. Unfortunately none of them will endure the frost; all have perished upon which the experiments for the purpose of naturalizing them were tried, and in despite of the most persevering and trying effort, they remain as they were at first, Greenhouse plants. They are easily propagated by cuttings from any part of the plant, whether from the old woods or new; placing these in a pot filled with moderately moist earth will ensure their sprouting. The only geranium possessed of much medicinal properties, is the *G. Maculatum*, or Crane's bill geranium, which is indigenous to the United States, and the purple colored flowers of which are too well known to need description; its root is a highly valuable astringent. Most of the whole species are in perpetual leaf; the remainder die to the ground and come up annually, to flower and produce seed. This plant emblemizes ART, from its faculty of imitation. In it the student of chemistry, as Phillips remarks, will see how imperfect is his art in comparison with natural chemistry, which distils from the earth and conveys by distinct channels, in its small stems, all that is necessary to produce foliage, flowers, and fruit, together with color, smell, and taste, the most opposite fluids and liquids being separated only by divisions so small as scarcely to be deemed a substance. And the research into the wonders of this, as well as every other species of vegetation, may be entered into without hurting the sensibility of the most tender feeling, as plants and roots may be dissected without those disagreeable sensations, which follow the dissection of animals.

“Each secret spring, each organ let me trace,  
That mock the proudest arts of human race;  
Completest toil from endless source that rose,  
Each worth a world; for each the Godhead shows.”





*Asclepias Hippocastanum.*

## ÆSCULUS HIPPOCASTÆNUM—HORSE CHESNUT.

CLASS, HEPTANDRIA ; ORDER, MONOGYNIA.

NATURAL ORDER, HIPPOCASTANACEÆ.

---

**GEN. CHAR.** Calyx, swelled, four or five toothed. Corol, correspondingly, four or five petalled, inserted on the former, unequal, and downy. Capsule, three celled. Seeds, large solitary.

**SPEC. CHAR.** Leaves, digitate, with seven divisions. Corol, five petalled, spreading.

This magnificent tree as Tyas remarks, was originally brought from India, and has been naturalized in Europe for more than two centuries; in America not quite so long, as it took quite a circuitous mode of reaching us, by way of Constantinople, Vienna, Italy, France, and England. It gives the deepest and most solemn shade of any tree that is yet known, and for this purpose, as well as its extreme cleanliness and rapidity of growth, is much used in parks, avenues, streets, and to shade houses. It luxuriates in the Tuilleries in France, where it rises around the great basin in masses of incomparable beauty, and at the Luxembourg, spreads its branches in accordant pomp and splendor. It can easily be distinguished from other trees by its magnificence of size and form, were not the five or seven leaves it bears on each footstalk, spread out like a human hand, a sufficient distinction. Its blossom is certainly one of the most splendid and elegant produced by any timber tree in the country. When in full flower, its delicate spikes

of white and pink, and the deep green of its digitated leaves, make it look like a mountain of ivory and emeralds, but this effect soon gives place to its shadowy depth of coloring. In the beginning of spring, one rainy day is sufficient to cause this beautiful tree to cover itself with verdure. If it be planted alone, nothing surpasses the elegance of its stately pyramid of from fifty to sixty feet, the beauty of its foliage, or the richness of its flowers, which in May or June, make it appear like an immense lustre or chandelier all covered with pearls. Fond of ostentation and richness, it covers with flowers the grass it overshadows and yields to the idler a most delightful shade. The nuts and capsules are large, mahogany colored, and are in great request among the rising generation, in the construction of potato mills. Though they yield a fine starch, still not in sufficient quantity to make it an object in the cultivation of the tree. In our western states, they have been successfully used to poison fish. Taken as a whole they rank in the merely ornamental class, for though cattle, especially the Deer, eat the nuts with avidity, to man they are acrid and unpalatable, evidently not intended for his food. The timber is of little service, being soft and perishable. The bark it is said is of some service in tanning, and the nuts, besides the properties we have named, have a soapy quality, which the peasants in some countries employ advantageously. Its generic name is derived from Esculus, a tree which furnished the Romans with an eatable fruit. The specific name meaning Horse Chesnut, was given because the Turks grind the nuts and mix them with corn, for their steeds. It is the emblem of **LUXURY**.

“There avenues of chesnuts high,  
With vaulted roofs conceal the sky.”





*Digitalis Purpurea.*



## DIGITALIS PURPUREA—FOXGLOVE.

CLASS, DIDYNAMIA ; ORDER, ANGIOSPERMIA.

NATURAL ORDER, SCROPHULARIACEÆ.

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**GEN. CHAR.** Calyx, five parted. Corol, bell form, five cleft, ventricose. Capsule, egg shaped, two celled. **SPEC. CHAR.** Sepals, ovate, acute. Corol, obtuse, superior lip entire. Leaves rough and somewhat spear-shaped.

This genus contains many species, not one of which is American. The generic name is derived from a word signifying thimble, in allusion to the form of the flowers. Its common name is a corruption of Fairy's Thimble. This biennial plant is a native of the mountainous and sandy regions of Europe. It has a simple stem, leafy below, covered with light down, which induced the poets to make it the emblem of **YOUTH**. The leaves are alternate, of an oval, spear-shape, those from the root attaining a considerable size. It flowers on a spike. Its corolla, says Lindley, is a large, inflated body, with its throat spotted with rich purple, and its border divided obliquely into five very short lobes, of which the two upper are the smaller; its four stamens are of unequal length; and the style divided into two lobes at the upper end. A number of long; glandular hairs cover the ovary, which contains two cells and a great quantity of valves.

Phillips remarks, that this beautiful but deleterious plant, which so highly ornaments the banks of hedge-rows and borders of woods, has been taken into the pleasure grounds to embellish the

shrubby by its noble spikes of pendant flowers, which hang with such peculiar grace from the spiral branches that they may be compared to a tower of Chinese bells, balanced for the pleasure of the Zephyrs. When these flowers advance from the calyx, they are scarcely closed at the end by the four clefts of the corolla, which meet so exactly as to prevent the admission of air until the parts of fructification have arrived at maturity, at which period the lips of the flower burst open in a bell or trumpet shape, displaying the most beautiful leopard spots in the interior of the flower. In this state the corolla remains for some days, until the anthers have discharged their farina, when the mask drops off that the sun may more readily ripen the seed vessels; but as fresh flowers continue to open in a regular succession, upwards, from the month of June to September, the beauty of the plant is continued for a longer period than most other towering flowers.

The covering of the parts of fructification, reminds us of Flint's remarks, in relation to similar cases. Nature, says he, is always modest, and when the mystery is accomplished and the flower cup fecundated, the peduncle that sustains the flower turns up again towards the sky. Its bower of love was concealed; but it shows the cradle of its children.

The leaves of this plant have a nauseous, bitter taste, but uncommon scent; when dried their color should be of a lively green; a fortunate test of the care used in the process, as this plant is now coming into extensive use. When given in large doses, it has the remarkable property of almost instantly reducing the action of the heart, lowering the pulse from seventy beats in a minute to thirty, and even twenty-five; and that too without previously exciting it. There is a variety with white corollas, to be seen sometimes in the gardens, which may be obtained by retaining the seeds of the common Foxglove a year without sowing them. Cowley says;

The Foxglove on fair Flora's hand is worn,  
Lest while she gathers flowers, she meets a thorn.





*Liliun Canadense.*

## LILIUM CANADENSE—COMMON YELLOW LILY.

CLASS, HEXANDRIA ; ORDER, MONOGYNIA.

NATURAL ORDER, LILIACEÆ.

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GEN. CHAR. Corolla, six petalled, bell-shaped ; with a longitudinal, nectarious line. Capsules, the valves connected by cancelled hair. SPEC. CHAR. Leaves in whorls. Flowers, terminal, drooping, with open petals.

The whole Lily tribe is readily distinguished by the large size of its flowers, some specimens of which are very striking in this respect. Dr. Wallich tells us of the gigantic Lilies of Napal, one species of which grows ten feet high, with flowers large in proportion. During the months of June and July, and sometimes until the middle of August, the larger portion of our meadows and waste moist lands, are ornamented with this flower. It has a green stem, rising to the height of from fifteen to forty inches, with lance-shaped leaves, surrounding it in whorls. Many times this stem bears but a single flower, though most generally three, on the stem ; their bells hang pendulous, of a yellow color on the outside, but spotted within ; the petals a very little turned outwards. It is perennial in its duration. The beauty and delicacy of the Lily, Phillips remarks, has made it celebrated by the writers of all ages, from the time of Solomon to the present day. It was regarded by Christ himself, as being more splendid than the great King of Jerusalem, in all his gorgeous apparel, and on this account, we

cannot behold the Lily without feeling a kind of reverence for the flower, mixed with our admiration for its elegance of form and purity of color. Jupiter wishing to render Hercules immortal, that he might rank him among the divinities, prevailed on Juno to take a deep draught of nectar, prepared as we presume by Somnus, as it is related that the Queen of the Gods fell immediately into a profound slumber, and that Jupiter then placed the infant Hercules to her breast, in order that the divine milk might enter his frame and so cause his immortality. The infant enjoying the delights of the celestial breast, drew the milk faster than he could swallow, some drops of which therefore fell to the earth, from which this flower immediately sprang up; and from this fable it was called Juno's Rose. Alcaib tells us, in his celebrated and elegant emblems, that Celestial Beauty is represented surrounded by a glory, half of the head hidden in the clouds, holding a Lily in one hand and a compass and ball in the other. As all nations agree in making the Lily the symbol of PURITY and MODESTY, it is the fit attribute of beauty; and perhaps no inhabitants of the earth blend it so happily with the Rose as our own fair daughters. In the Hebrew language, the name Susannah signifies a Lily. The English name is derived from the Latin, as is also the French LIS, the Spanish LIRIO, the German LILIE, the Italian GIGLIO, and the Dutch GILGEN, seem to be corruptions of the same word. The Lily genus appears to have been as great favorites with the ancient as the modern nations; in the wedding ceremonies of the modern Greeks, the priest is supplied with two chaplets of Lilies and ears of corn, which he places on the heads of the bride and bridegroom, as emblems of PURITY and ABUNDANCE. As the Canadian Lily is one of our own flowers, and not improved by cultivation, directions for that purpose would be unnecessary.





*Dahlia Superflua*



## DAHLIA SUPERFLUA—DAHLIA.

CLASS, SYNGENESIA ; ORDER, POLYGAMIA SUPERFLUA.

NATURAL ORDER, COMPOSITÆ.

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**GEN. CHAR.** Root, tuberos. Leaves, broad, lanceolate, cut on the edges. **SPEC. CHAR.** Generally six feet in height, with broad foliage and large flowers. Rays fertile.

The generic name of this plant was bestowed by Linnæus in honor of Andrew Dahl, a Swedish botanist. It contains few species, but such has been its reception by the public, that gardeners have bestowed an immense amount of pains in its cultivation, and the varieties produced in consequence, are almost endless. Phillips remarks, that this splendid addition to the autumnal parterres of the Old World was unknown till 1789, when it was sent to Spain from Mexico, where it grows wild, in sandy meadows. It was lost at first in England, but some roots and seeds being afterwards obtained from France, that country partook of the Dahlia-mania of the nineteenth century, which although less dangerous in its effects, was not less general than the Tulip-mania by which Europe was so much affected in the seventeenth century; and it was finally left to English capital and perseverance to illuminate the northern part of the globe, by the full brilliancy of these floral luminaries, which now shine as conspicuously in our groves and gardens as gas in our cities. The ingenuity of the florist has never appeared more conspicuous than in the treatment

of this Mexican plant, as through their art, these flowers have had their petals doubled and quadrupled until they have become as full as the China Aster or Rosa Centifolia, whilst their colors have even been more increased than their petals, and display a richness which rivals that of the gaudy Tulip, or the finest tints which the silk dyer is able to give to glossy velvet. The most beautiful varieties have been raised from the seeds of the single purple Dahlia; these are increased by two different modes; First, by cuttings, which should be taken from the rootshoots in the spring, or from young shoots in the early part of the summer, these when cut off smoothly, in the middle of a joint, are to be planted in light sandy earth on a moderately hot bed, and covered with glasses. The top leaves of the cuttings should be removed when planted; tubers will thus be formed, which will produce flowers during autumn. The second mode is by grafting the shoots of valuable plants on the tubers of the more common kind.

Dahlia should be planted in open situations and in a rich loamy soil; the full grown roots to be put in the ground early in spring, at the place where they are to flower. The most admired are those which throw out their branches like a shrub, and are prolific of flowers, having short footstalks; the blossom should be clear, distinct in color and fully expanded. In examining the florets of this species, it will be seen that the filaments of the stamens are elastic, which by extension admit of the anther being protruded above the floret, by the impulse of the stigmas from within; as charged with pollen they advance to their station through its five valved membrane, which opposes their outlet at the summit, withdrawing the same to its place when these have passed. The roots, which are tuberous, resembling a sweet potato, are used as an aliment by the Mexicans; these should be taken up in October, and preserved through the winter in boxes of dry sand, placed where the frost cannot penetrate. Dahlias have the best appearance when planted on lawns, forming clumps distinct from any other plant. They emblemize **FOR EVER THINE.**







