STATE OF NEW-YORK.

No. 406.

IN ASSEMBLY,

May 3, 1839.

MESSAGE

From the Governor, transmitting two several reports in relation to the Geological Survey of the State.

Albany, May 3, 1839.

TO THE ASSEMBLY.

I transmit a report from John Torrey, M. D. Botanist, and also an extract of a communication from J. E. De Kay, M. D. Zoologist; which documents may be considered as supplementary to my communication of the twenty-third day of February last, relative to the Geological Survey of the State.

I avail myself of this occasion to express my conviction that those gentlemen are discharging the responsibilities assigned to them with diligence and distinguished ability.

WILLIAM H. SEWARD.

LETTER FROM JOHN TORREY, M. D.

TO HIS EXCELLENCY GOVERNOR SEWARD.

SIR,

I herewith present a brief report of my labors as Botanist, under the Act for a Geological Survey of the State. In November last, I made a report in person to your predecessor; and therefore supposed, that from the peculiar nature of my duties, I should not be called upon for a written statement of my observations and researches until the survey was brought to a close. At your direction, however, I send you an account of the present state of my department, as far as I am prepared to report.

When I received my commission as Botanist, no specific duties were assigned to me, except to make a thorough examination of the vegetable productions of the State, and to collect seven full sets of each species; preserving them in such a manner as to exhibit as nearly as possible the botanical characters of the plants, and to arrange and name the whole as standard collections for reference. This work I have in a great degree accomplished. A large portion of the State has been pretty well explored, and many valuable observations made on our indigenous plants. A great number of excellent specimens have been preserved, and most of them have been arranged and named. The set for the State Collection, to be deposited in the Capitol, is to be put up in bound volumes like the specimen herewith submitted, except that the labels and title-pages are to be printed. About 60 such volumes will be required for one set of the plants. When the Herbarium is completed, it will be so arranged that any plant contained in it may be found with the greatest facility.

The number of species and varieties already ascertained as belonging to the Flora of the State, exceeds 2,300. Of these, 277 are trees or shrubs; 200 are medicinal plants, or are reputed to possess medicinal virtues; 250 are ornamental herbaceous species; about 125 have been

introduced from other countries, and have become naturalized in our soil. Of true Grasses, we have 134 species, 25 of which are of foreign origin, but are now completely naturalized. The Sedges are 140 in number; more than half of them belong to the genus *Carex*.

The Cryptogamic or Flowerless Plants, with the exception of the Ferns, Mosses, Lichens and Liverworts, have not yet been particularly examined, but they will be studied the present year. In the interesting Tribe of the Algæ, I shall have the valuable aid of Prof. Bailey of West Point.

With the specimen of the Herbarium, I also present to your Excellency the first part of my Catalogue of the Plants hitherto found in the State. It was my intention to have completed this list the present spring, but I find that I shall be obliged to postpone the remainder until the autumn; as the botanizing season is so far advanced, that unless I commence my field duties immediately, I shall lose the opportunity of making valuable observations.

With much respect,

I am your Excellency's obedient servant,

JOHN TORREY.

New-York, May 1, 1839.

CATALOGUE OF PLANTS,
INDIGENOUS TO THE
STATE OF NEW-YORK.

CLASS I. EXOGENOUS, OR DICOTYLEDONOUS
FLOWERING PLANTS.

ORDER I. RANUNCULACEÆ. THE CROWFOOT TRIBE.

CLEMATIS, *Linn.* *Virgin's Bower*, or *Traveller's Joy*.

ochroleuca, *Ait.* Long Island, near New-York. Rare. June.

Virginiana, *Linn.* Common in hedges. July, August.

verticillaris, *D. C.* Mountains. April, May.

ANEMONE, *Linn.* *Wind Flower*.

nemorosa, *L.* Woods, &c. April, May. Common.

cylindrica, *Gray.* Western part of the State. May, June. Rare.

Virginiana, *L.* Woods, &c. Common. July, August.

multifida, *D. C.* Watertown, Jefferson county. *Dr. Crawe.*

Pennsylvanica, *L.* Banks of rivers, &c. June, July.

HEPATICA, *Dill.* *Liverwort*.

triloba, *Cham.* Var. obtusa, and Var. acuta. Woods, very common. March, April.

RANUNCULUS, *Linn.* *Crowfoot*.

aquatilis, *L.* (*Water Crowfoot*.) Floating in ponds. June, Aug.
Var. capillaceus.

flammula, *L.* Wet places, rather common. July.

reptans, *L.* Var. ovalis, *Big.* and Var. filiformis. Banks of rivers and borders of lakes. Common. June, Aug.

RANUNCULUS, (continued.)

pusillus, *Poir.* Low wet grounds. New-York. Rare. August.
 cymbalaria, *Pursh.* Salt marshes. Long Island and Salina. Aug.
 abortivus, *L.* Rocky woods. April, June. Common.
 sceleratus, *L.* Ditches, &c. May, August. Common.
 Purshii, *Richardson.* Ponds, &c. Western parts of the State.
 acris, *L.* (*Buttercups.*) Meadows and pastures. June.
 repens, *L.* Wet shady places. May, July.
 Pennsylvanicus, *L.* Wet places. June, August.
 recurvatus, *Poir.* Shady rich soils. May, June.
 fascicularis, *Muhl.* Rocky woods. April, May.
 bulbosus, *L.* Fields and pastures. Introduced from Europe. May.

CALTHA, *L.* *Marsh Marigold. Collsfoot.*

palustris, *L.* Swamps. April. Common.

TROLLIUS, *L.*

laxus, *Salisb.* Sphagnous swamps. Western part of the State.
 May. Rare.

COPTIS, *Salisb.* *Goldthread.*

trifolia, *Salis.* Bogs. May, June.

AQUILEGIA, *L.* *Columbine.*

Canadensis, *L.* (*Wild Columbine.*) On rocks. Common. May,
 July.

ACONITUM, *L.* *Monkshood.*

uncinatum, *L.* Chenango county, *Maj. Leconte.* I have only
 seen New-York specimens in the herbarium of *Maj. Leconte.*

ACTÆA, *L.* *Baneberry.*

rubra, *Bigel.* Rocky woods. May. Berries red.
 alba, *Bigel.* With the preceding. Berries white.

CIMICIFUGA, *L.* *Bugbane.*

racemosa, *L.* (*Tall or Black Snakeroot.*) Woods. July.

THALICTRUM, *L.* *Meadow Rue.*

dioicum, *L.* Rocky woods. April, May.
 cornuti, *L.* Wet meadows, &c. Common. June, July.
 anemonoides, *Michx.* Woods. April, May. Common.

ORDER II. MAGNOLIACEÆ. THE MAGNOLIA TRIBE.

MAGNOLIA, *L.* *Magnolia Tree.**glauca*, *L.* Swamps. Rare. May, June.*umbrella*, *Lam.* (*Umbrella tree.*) Western part of New-York,
*Michx.**acuminata*, *L.* (*Cucumber tree.*) Western part of the State.
June, July.LIRIODENDRON, *L.* *Tulip Tree.**tulipifera*, *L.* (*Whitewood.*) Woods. May, June.

ORDER III. MENISPERMACEÆ. THE MOONSEED TRIBE.

MENISPERMUM, *L.* *Moonseed.**Canadense*, *L.* Banks of rivers, &c. July.

ORDER IV. BERBERIDACEÆ. THE BARBERRY TRIBE.

BERBERIS, *L.* *Barberry.**vulgaris.* (*Barberry bush.*) Borders of fields. May, June, In-
troduced from Europe.LEONTICE, *L.**thalictroides*, *L.* (*Blue Cohosh.*) Woods. April.JEFFERSONIA, *Bart.**diphylla*, *Pers.* In calcareous soils. Western and northern parts
of the State. April.PODOPHYLLUM, *L.**peltatum*, *L.* (*Mandrake, May Apple.*) Woods, &c. Common.
May.

ORDER V. CABOMBACEÆ.

BRASENIA, *Schreb.* *Water Shield, Water Target.**peltata*, *Pursh.* In still water. July.

ORDER VI. CERATOPHYLLACEÆ. THE HORNWORT TRIBE.

CERATOPHYLLUM, *L.* *Hornwort.**apiculatum*, *Cham.* Still waters. July.

ORDER VII. NELUMBIACEÆ.

NELUMBium, *Juss.*

luteum, *Willd.* (*Great Yellow Water Lily*.) Big Sodus Bay,
Lake Ontario.

ORDER VIII. NYMPHÆACEÆ. WATER LILY TRIBE.

NUPHAR, *Smith.* *Yellow Water Lily, Pond Lily.*

lutea, *Smith.* Small lakes and still water. June, August.

advena, *Ait.* (*Spatterdock*.) Ponds and small streams. May,
September.

NYMPHÆA, *Tourn.* *White Pond Lily.*

odorata, *Ait.* In still water. June, September.

ORDER IX. SARRACENIACEÆ.

SARRACENIA, *L.* *Sidesaddle Flower.*

purpurea, *L.* Bogs. May, June.

Var. *heterophylla*. *S. heterophylla*, *Eaton.* Junius, Seneca coun-
ty. *Dr. Sartwell.* Flowers yellow.

ORDER X. PAPAVERACEÆ. THE POPPY TRIBE.

PAPAVER, *L.* *Poppy.*

somniferum, *L.* (*Common Poppy*.) Waste grounds. Introduced.

SANGUINARIA, *L.* *Bloodroot.*

Canadensis, *L.* Open woods. Common. March, April.

CHELIDONIUM, *L.* *Celandine.*

majus, *L.* Waste places. Introduced. May, October.

ORDER XI. FUMARIACEÆ. THE FUMITORY TRIBE.

DIELYTRA, *Book.*

cucullaria, *D. C.* (*Dutchman's Breeches*.) Shady woods. April.
Common.

Canadensis, *D. C.* (*Squirrel Corn*.) Rocky woods. April.

formosa, *D. C.* Wayne county. *Dr. Sartwell.*

ADLUMIA, *Raf.*

cirrhosa, *Raf.* (*Climbing Fumitory*.) Shady rocky places. July,
September.

CORYDALIS, *D. C.*

aurea, *Willd.* Rocky woods. April, August.

glauca, *Pursh.* Rocky open places. May, July.

FUMARIA, *L. Fumitory.*

officinalis, *L. (Common Fumitory.)* May, August. Introduced.

ORDER XII. CRUCIFERÆ. THE CRUCIFEROUS TRIBE.

NASTURTIIUM, *R. Brown.*

palustre, *R. Br.* Wet places. June, August.

natans. Var. *Americanum*, *Gray.* In water. Oneida lake, *Dr. Gray.* Ogdensburgh, *Dr. Crave.*

BARBAREA, *R. Br.*

vulgaris, *R. Br. (Scurvy-grass, Yellow Rocket.)* Along streams. Native?

TURRITIS, *Dill.*

glabra, *L.* Rocks, Watertown. May.

ARABIS, *L. Wall-cress.*

hirsuta, *Scop.* Rocky places. April, May.

lyrata, *L.* Rocks. April, May.

lævigata, *D. C.* Rocky woods, and along streams. May.

Canadensis, *L.* Rocky woods and hill sides. June, July.

CARDAMINE, *L.*

rotundifolia, *Michx. a, β & γ. Torr. and Gr. Fl. N. America. (Spring Cress.)* Wet meadows. April, May.

pratensis, *L.* Swamps. Western parts of the State.

hirsuta, *L., Torr. & Gr.* Wet places, and on rocks. May, June.

DENTARIA, *L. Toothwort.*

laciniata, *Muhl.* Rich alluvial soils. April, May.

maxima, *Nutt.* Western part of the State, *Nuttal.* I have not seen this plant.

diphylla, *Michx.* Shady woods. April, May.

SISYMBRIUM, *Allioné. Hedge Mustard.*

officinale, *Scop.* Road sides. Introduced. May, August.

Thaliana, *Gay.* Rocks and sandy fields, Kingsbridge, New-York. May.

SISYMBRIUM, (continued.)

teres, *Torr. and Gray*. Cardamine teres, *Michx.* Lake Champlain, *Michaux*. I have only seen this plant in Michaux's herbarium.

ERYSIMUM, *L.*

cheiranthoides, *L.* Along streams. Western part of the State.

SINAPIS, *L.* *Mustard.*

nigra, *L.* (*Black Mustard.*) Fields and waste places. Introduced. June, August.

arvensis, *L.* Alluvial and rich soils. Abundant in the western and northern parts of the State. June, August. A troublesome weed. Introduced.

DEABA, *L.* *Willow-grass.*

arabisans, *Michx.* Rocks. Northern part of the State. June. Caroliniana, *Walt.* Sandy fields. April, June. Rare.

verna, *L.* Fields and hill sides. March, April.

CAMELINA, *L.*

sativa, *Crantz.* (*Wild Flax.*) Fields and cultivated grounds. Introduced. May, June.

THLASPI, *L.*

arvense, *L.* Fields. Rare. Introduced.

LEPIDIUM, *L.* *Pepper-grass.*

campestre, *R. Br.* Waste places. Introduced. June, July.

Virginicum, *L.* Fields and road sides. June, August.

CAPSELLA, *Vent.*

bursa-pastoris, *Broench.* (*Shepherd's Purse.*) Common in fields. Introduced.

CAKILE, *D. C.*

maritima, *Scop.* (*Sea Rocket.*) Sea coast, and in the Harbor of New-York.

ORDER XIII. CAPPARIDACEÆ. THE CAPER TRIBE.

POLANESIA, *Raf.*

graveolens, *Raf.* Banks of the Hudson, and Lakes Champlain and Ontario. June, August.

ORDER XIV. POLYGALACEÆ. THE MILKWORT TRIBE.

POLYGALA, *L.* *Milkwort.*

purpurea, *Nutt.* Meadows. July, September.

cruciata, *L.* Swamps. August, September.

verticillata, *L.* Sandy soils. June, August,

senega, *L.* (*Seneca Snakeroot.*) Rocky woods. May, June.

polygama, *Walt.* Sandy soils. Long Island, Western part of the State, &c.

pauciflora, *Willd.* Sphagnous swamps. May.

Var. *alba*, *Eight.* Sand plains near Albany. *Dr. J. Eight.*

ORDER XV. VIOLACEÆ. THE VIOLET TRIBE.

VIOLA, *L.* *Violet.*

pedata, *L.* Sandy woods. Island of New-York, &c. May.

palmata, *L.* Low grounds. May.

cucullata, *Ait.* Wet meadows, woods, &c. May.

Selkirkii, *Goldie.* Western part of the State.

sagittata, *Ait.* Fields, and on hill sides. April, May.

Var. *ovata*. (*V. ovata*, *Nutt.*) With the preceding.

rotundifolia, *Michx.* Shady rocky woods. Northern and western part of the State. Not found near the Sea.

blanda, *Willd.* Wet meadows. April, May.

primulæfolia, *L.* Wet meadows. April, June.

lanceolata, *L.* With the preceding.

Muhlenbergii, *Torr.* Swamps and woods. April, May.

rostrata, *Pursh.* Moist rocky places. Western parts of the State.

pubescens, *Ait.* Dry woods. April.

Canadensis, *L.* Shady woods. May, July.

SOLEA, *Ging.*

concolor, *Ging.* Western part of the State, in shady wet woods. April.

ORDER XVI. DROSERACEÆ. THE SUNDEW TRIBE.

DROSERA, *L.* *Sundew.*

rotundifolia, *L.* Sphagnous swamps. June, August.

longifolia, *L.* With the preceding.

filiformis, *Raf.* Wet sandy places. Long Island, near Montauk.

PARNASSIA, *L.* *Grass of Parnassus.*

Caroliniana, *Michx.* Wet meadows. July, August.

ORDER XVII. CISTACEÆ. THE ROCK-ROSE TRIBE.

HELIANTHEMUM, *Tourn.*

Canadense, *Michx.* Sandy soils. June.

LECHEA, *L.*

major, *Michx.* Dry woods. July, September.

thymifolia, *Pursh.* Sea coast of Long Island. July, September.

minor, *Lam.* Dry soils. June, September.

HUDSONIA, *L.* *False Heath.*

ericoides, *L.* Dry sandy woods. Long Island. May.

tomentosa, *Nutt.* Sea coast of Long Island, Shore of Lake Champlain, &c.

ORDER XVIII. HYPERICACEÆ. ST. JOHN'S WORT TRIBE.

HYPERICUM, *L.* *St. John's Wort.*

pyramidalum, *Ait.* Banks of rivers. Northern and western parts of the State. July.

Kalmianum, *L.* Falls of Niagara. August.

perforatum, *L.* (*Common St. John's Wort.*) Fields, &c. Introduced. July, August.

corymbosum, *Muhl.* Open woods and meadows. July, August.

ellipticum, *Hook.* Moist grounds. Northern and western parts of the State.

mutilum, *L.* (parviflorum, *Muhl.*) Low grounds. July, Sept.

Canadense, *L.* Wet sandy places. June, August.

sarothra, *Michx.* Sandy fields, &c. June, August.

ELODEA, *Adans.*

Virginica, *Nutt.* Swamps. July, August.

ORDER XIX. ILLECEBRACEÆ. THE KNOTIGRASS TRIBE.

ANYCHIA, *Michx.*

dichotoma, *Michx.* Dry soils. June, August.

SPERGULA, *Bartl.*

arvensis, *L.* Waste grounds. Introduced.

rubra, *Torr. and Gr.* (*Arenaria rubra, L.*) Sandy fields, particularly near salt water.

ORDER XX. CARYOPHYLLACEÆ. THE PINK TRIBE.

MOLLUGO, *L.* *Indian Chickweed.*

verticillata, *L.* Sterile soils and cultivated grounds. June, Sept.

HONCKENYA, *Ebrh.*

peploides, *Ebrh.* Sea coast of Long Island.

SAGINA, *Bartl.*

decumbens, *Torr.* and *Gr.* (*Spergula saginoides, L.*) Fields.
Introduced. April, July.

ARENARIA, *L.* *Sandwort.*

squarrosa, *Michx.* Long Island, in sand near the Sea. May, July.
stricta, *Michx.* Rocks, along rivers, &c. Northern and western
parts of the State. May, July.

Greenlandica, *Spreng.* Summit of the Shawangunk and Adirondack mountains. July, August.

serpyllifolia, *L.* Sandy fields. Introduced. April, July.

lateriflora, *L.* Shady woods and swamps. June.

STELLARIA, *L.* *Chickweed.*

media, *Smith.* Waste grounds. Introduced. March, December.

longipes, *Goldie.* Shore of Lake Ontario, &c.

longifolia, *Muhl.* Shady wet places. June.

borealis, *Bigel.* Wet shady swamps. Northern and western parts
of the State.

CERASTIUM, *L.* *Mouse-ear Chickweed.*

vulgatum, *L.* Cultivated grounds, &c. Introduced. April, Sept.

viscosum, *L.* Fields, &c. Introduced.

arvense, *L.* Rocky places, often on high mountains. May, July.

oblongifolium, *Torr.* Rocky places. April, June.

nutans, *Raf.* Banks of rivers, &c. May.

SILENE, *L.* *Pink.*

stellata, *Ait.* Dry woods. June, August.

antirrhina, *L.* Dry and rocky places. April, June.

noctiflora, *L.* Old fields. Northern and western parts of the State.
Introduced.

Pennsylvanica, *Michx.* Dry rocky places. April, June.

Virginica, *L.* Yates county. *Dr. Sartwell.*

ORDER XXI. PORTULACACEÆ. THE PURSLANE TRIBE.

PORTULACA, *L.* Purslane.oleracea, *L.* Waste and cultivated grounds. Introduced. Summer.CLAYTONIA, *L.* Spring Beauty.Virginica, *L.* Low moist grounds. March, May.Caroliniana, *Michx.* Woods. April.

ORDER XXII. ELATINACEÆ. THE WATER-PEPPER TRIBE.

ELATINE, *L.*Americana, *Arn.* Borders of ponds, and in water. Long Island.
August.

ORDER XXIII. LINACEÆ. THE FLAX TRIBE.

LINUM, *L.* Flax.usitatissimum, *L.* (Common Flax.) Fields. Introduced. Summer.Virginianum, *L.* Dry woods, &c. Summer.

ORDER XXIV. GERANIACEÆ. THE GERANIUM TRIBE.

GERANIUM, *L.* Cranesbill Geranium.maculatum, *L.* (Crowfoot, Spotted Geranium.) Woods. Spring.Carolinianum, *L.* Barren rocky places. Spring.pusillum, *L.* Road sides. Long Island, and western part of the
State. Introduced. May, July.Robertianum, *L.* Wet rocks. June, October.ERODIUM, *L'Her.* Heronsbill Geranium.cicutarium, *L'Her.* Island in Oneida lake. *Dr. Kneiskern.*

ORDER XXV. BALSAMINACEÆ. THE BALSAM TRIBE.

IMPATIENS, *L.*pallida, *Nutt.* Moist shady places. July, September.fulva, *Nutt.* In similar situations.

ORDER XXVI. LIMNANTHACEÆ.

FLÆRKEA, *Willd.*proserpinacoides, *Willd.* Wet places. April, May.

ORDER XXVII. OXALIDACEÆ. THE SORREL TRIBE.

OXALIS, *L.* *Sorrel.*

acetosella, *L.* (*Common Wood Sorrel.*) Woods. Northern and western parts of the State. June.

violaceæ, *L.* Rocky woods. April, May.

corniculata, *L.* Cultivated grounds. Summer.

stricta, *L.* With the preceding.

ORDER XXVIII. ZANTHOXYLACEÆ.

ZANTHOXYLUM, *L.* *Toothach Tree.*

Americanum, *Miller.* (*Prickly Ash.*) Hills. Highlands of New-York, &c. April, May.

PTELEA, *L.* *Shrubby Trefoil.*

trifoliata, *L.* Rocky shady places. Lake Erie. June.

ORDER XXIX. ANACARDIACEÆ. THE CASHEW TRIBE.

RHUS, *L.* *Sumac.*

typhina, *L.* (*Stagshorn Sumac.*) Borders of woods, &c. June.

glabra, *L.* Rocky places. July, August.

copallina, *L.* Rocky places. July, August.

venenata, *D. C.* (*Poison Sumac, Poison Elder.*) Swamps. June.

toxicodendron, *L.* Woods and hills. May, June.

aromatica, *Ait.* Rocky places. April, May.

ORDER XXX. MALVACEÆ. THE MALLOW TRIBE.

MALVA, *L.* *Mallow.*

rotundifolia, *L.* Waste grounds. Introduced. Summer.

ALTHÆA, *L.* *Marshmallows.*

officinalis, *L.* Borders of salt marshes, North side of Long Island. Introduced. September.

ABUTILON, *Dill.*

Avicennæ, *Gært.* (*Sida abutilon, L.*) Waste places, &c. Introduced. Summer.

HIBISCUS, *L.*

Virginicus, *L.* Salt marshes, Long Island.

moscheutos, *L.* Marshes. August, September.

ORDER XXXI. TILIACEÆ. THE LINDEN TRIBE.

TILIA, *L.* *Linden*, or *Basswood*.

Americana, *L.*

ORDER XXXII. VITACEÆ. THE GRAPE TRIBE.

VITIS, *L.* *Grape*.

labrusca, *L.* (*Fox Grape*.) Woods and thickets. June.

æstivalis, *Michx.* (*Summer Grape*.) Banks of rivers. June.

cordifolia, *Michx.* (*Winter Grape*, *Frost Grape*.) Banks of rivers.

viparia, *Michx.* (*Winter Grape*.) With the preceding.

AMPELOPSIS, *Michx.*

quinquefolia, *Michx.* (*Virginian Creeper*, *American Joy*.) Borders of woods, &c.

ORDER XXXIII. ACERACEÆ. THE MAPLE TRIBE.

ACER, *L.* *Maple*.

Pennsylvanicum, *L.* (*Striped Maple*, *Moosewood*, *Dogwood*.)

Mountainous districts, from the Highlands north and west.

spicatum, *Lam.* (*Mountain Maple*.) With the preceding.

saccharinum, *L.* (*Sugar Maple*.) Dry woods. April, May.

dasycarpum, *Ebrh.* (*Silver-leaved Maple*, *Soft Maple*.) Banks of rivers.

rubrum, *L.* (*Red* or *Swamp Maple*.) Wet woods. March, April.

ORDER XXXIV. CELASTRACEÆ.

STAPHYLEA, *L.* *Bladdernut*.

trifolia, *L.* *Rocky woods*. May.

CELASTRUS, *L.* *Bittersweet*.

scandens, *L.* *Borders of woods*, &c. June.

EUONYMUS, *L.*

atropurpureus, *Jacq.* (*Burning bush*, *Spindle tree*.) Woods. June.

Americanus, *L.* (*Strawberry tree*.) Woods. May, June.

ORDER XXXV. RHAMNACEÆ. THE BUCKTHORN TRIBE.

RHAMNUS, *L.* *Buckthorn*.

catharticus, *L.* *Highlands of New-York*. Introduced.

almifolius, *L'Herit.* *Sphagnous swamps*. May, June.

CEANOTHUS, *L.* *New-Jersey Tea.**Americanus*, *L.* Woods. June, July.*ovalis*, *Bigel.* Rocky places. Northern part of the State.

ORDER XXXVI. LEGUMINOSÆ. THE PEA TRIBE.

VICIA, *L.* *Velch.**Americana*, *Muhl.* Low grounds.*cracca*, *L.* Borders of woods. April, June.*Caroliniana*, *Walt.* With the preceding. April, May.*tetrasperma*, *Lois.* (*Ervum tetraspermum*, *L.*) Banks of rivers.
July.*sativa*, *L.* (*Common Vetch* or *Tare*.) Fields and waste grounds.
Introduced. June, July.ERVUM, *L.* *Tare.**hirsutum*, *L.* Banks of rivers. May, June. Introduced.LATHYRUS, *L.**maritimus*, *Bigel.* Sandy shores of Long Island, and of Lake
Ontario, &c.*venosus*, *Muhl.* Shady places. June, July.*ochroleucus*, *Hook.* Shady hill sides. June, July.*myrtifolius*, *Muhl.* Banks of rivers. July, August.*palustris*, *L.* Swamps. July, August.PIASEOLUS, *L.* *Kidney Bean.**perennis*, *Walt.* Rocky woods. July, August.*diversifolius*, *Pers.* Sandy shores. August, October.*helvolus*, *L.* Sandy fields. August, September.APIOS, *Boerh.**tuberosa*, *Manch.* Moist shady places. July.AMPHICARPÆA, *Ell.**monoica*, *Torr. and Gr.* Woods, August, September.ROBINIA, *L.* *Locust tree.**pseudacacia*, *L.* Fertile soils, and about plantations. Introduced
from the Southern States.TEPHROSIA, *Pers.**Virginiana*, *Pers.* Dry sandy soils. June, July.

TRIFOLIUM, L. Clover, Trefoil.

- arvense, L. (*Stone Clover, Rabbitfoot.*) Fields. Introduced.
 pratense, L. (*Common Red Clover.*) Meadows, &c. Introduced.
 repens, L. (*White Clover.*) Pastures, &c. April, November.
 agrarium, L. (*Yellow Clover, Hop Clover.*) Sandy soils. June, August. Introduced from Europe.

MELILOTUS, Tourn. Melilot.

- officinalis, Willd. (*Yellow Melilot.*) Alluvial soils. Introduced.
 leucantha, Kock. (*White Melilot.*) With the preceding.

MEDICAGO, L. Medic.

- sativa, L. (*Lucerne.*) Pastures. Introduced.
 lupulina, L. Cultivated grounds, &c. Introduced. June, Aug.

ASTRAGALUS, L. Milk Vetch.

- Canadensis, L. Banks of rivers, &c. June, August.

PHACA, L. Bastard Vetch.

- neglecta, Torr. & Gr. Banks of rivers. Western part of the State.

STYLOSANTHES, Swartz.

- elatior, Swartz. Sandy soils. Long Island. June, August.

DESMODIUM, D. C.

- nudiflorum, D. C. Dry woods. July, August.
 acuminatum, D. C. With the preceding.
 Canadense, D. C. With the preceding.
 canescens, D. C. Moist rich soils. July, August.
 Dillenii, Darling. With the preceding.
 cuspidatum, Torr. and Gr. (*Hedysarum cuspidatum, Muhl.*)
 Woods, and along rivers. August.
 ciliare, D. C. Stony woods. July, August.
 obtusum, D. C. Dry woods. August.
 humifusum, D. C. Woods. August.
 rotundifolium, D. C. Rocky woods. August.
 paniculatum, D. C. Woods, along streams. August.

LESPEDeza, Michx.

- frutescens, D. C. Dry woods. September.
 reticulata, Pers. With the preceding.
 hirta, Ell. Woods and sandy fields. August, September.
 violacea, Pers. Dry woods. July, August.
 angustifolia, Ell. Sandy fields and woods. August, September.

LESPEDEZA, (continued.)

- procumbens, *Michx.* Sandy woods. August.
 prostrata, *Pursh.* With the preceding.

LUPINUS, *L.* *Lupine.*

- perennis, *L.* Sandy fields and woods. May, June.

CROTALARIA, *L.* *Rattlebox.*

- sagittalis, *L.* Dry woods and hill sides. July, August.

BAPTISIA, *Vent.*

- tinctoria, *Brown.* (*Wild Indigo.*) Dry woods and sandy fields.
 July.

CASSIA, *L.*

- Marilandica, *L.* (*Wild Senna.*) Meadows and river banks. July,
 August.
 nictitans, *L.* (*Wild Sensitive Plant.*) Sandy fields. June, July.
 chamæcrista, *L.* (*Magohy-bay Bean.*) Sandy fields. June, Aug.

GLEDITSCHIA, *L.* *Honey Locust.*

- tricanthos, *L.* Woods, &c. June.

GYMNOCLADUS, *Lam.* *Coffee tree.*

- Canadensis, *Michx.* Western part of the State. May, June.

ORDER XXXVII. ROSACEÆ. THE ROSE TRIBE.

PRUNUS, *L.* *Plum and Cherry.*

- Americana, *Marshall.* (*Yellow or Brandywine Plum.*) Woods, &c.
 pumila, *Michx.* Banks of rivers. Western part of the State, &c.
 pygmæa, *Willd.* Rocky banks of rivers.
 pubescens, *Pursh.* (*Sand Cherries, Beach Plum.*) Sandy sea-
 shore.
 Pennsylvanica, *Ait.* Woods. June.
 Virginiana, *L.* (*Wild Cherry.*) Woods. May.
 serotina, *Willd.* (*Choke Cherry.*) Woods. May.

SPIRÆA, *L.* *Meadowsweet.*

- opulifolia, *L.* Rocky woods and banks of rivers. June, July.
 salicifolia, *L.* Meadows and mountains. July.
 tomentosa, *L.* (*Steeple bush, Hardhack.*) Low grounds. July.

GILLENIA, *Mænoch.*

trifoliata, *Mænoch.* (*Indian Physic, American Ipecac.*) Woods.
June.

stipulacea, *Nutt.* Western part of the State. June.

GEUM, *L. Avens.*

strictum, *Ait.* (*Yellow Avens.*) Swamps. Western and northern
parts of the State. August.

Virginianum, *L.* Woods. June, July.

rivale, *L.* (*Water Avens.*) Low grounds. Western and northern
parts of the State. May, June.

COMAROPSIS, *Rich.*

fragarioides, *D. C.* (*Dry Strawberry.*) Woods. Western and
northern parts of the State.

RUBUS, *L. Blackberry, &c.*

strigonis, *Michx.* (*Red Raspberry.*) Rocky woods. May, June.

occidentalis, *L.* (*Wild Raspberry.*) Rocky hills. May, June.

cuneifolius, *Pursh.* Sandy fields. Long Island.

villosus, *L.* (*High Blackberry.*) Fields, &c. June.

hispidus, *L.* (*Low Blackberry.*) Stony fields. June.

triflorus, *Richardson.* Swamps. June, July.

odoratus, *L.* (*Flowering Raspberry.*) Rocky woods. June.

DALIBARDA, *L.*

repens, *L.* Woods. Northern and western parts of the State.
June, July.

FRAGARIA, *L. Strawberry.*

Virginiana, *L.* (*Wild Strawberry.*) Fields. April, May.

Canadensis, *Michx.* (*Mountain Strawberry.*) Rocks along streams.
May, June.

POTENTILLA, *L. Cinquefoil.*

Norvegica, *L.* (*Norway Cinquefoil.*) Fields. Introduced. June,
August.

tridentata, *Ait.* Mountains, in clefts of rocks. June, July.

Canadensis, *L.* (*P. simplex, Michx.*) Fields and woods. May.

argentea, *L.* (*Silvery Cinquefoil.*) Fields, and on rocks. June,
September.

fruticosa, *L.* (*Shrubby Cinquefoil.*) Swamps. June.

anserina, *L.* Wet meadows. Northern and western parts of the
State.

POTENTILLA, (continued.)

arguta, *Pursh.* Rocky banks of rivers. June.

comarum, *D. C.* Swamps. Northern and western parts of the State. June.

AGRIMONIA, *L. Agrimony.*

eupatoria, *L.* Woods and meadows. July.

ROSA, *L. Rose.*

parviflora, *Ebrh.* Woods and rocky hills. June, July.

Carolina, *L.* Low grounds. July.

rubiginosa, *L. (Sweet Brier.)* July.

CRATÆGUS, *L. Thorn.*

crus-galli, *Ait.* Borders of woods. May.

punctata, *Jacq.* Low grounds. Western parts of the State.

coccinea, *L. (Thorn-bush.)* Woods, in rocky places. May.

oxycantha, *L. (Hawthorn.)* Road sides. Introduced. June.

AMELANCHIER, *D. C.*

botryapium, *D. C. (Shadbush.)* Rocky moist woods. April, May.

ovalis, *D. C.* Swamps and woods. May.

PYRUS, *L. Apple, Pear, &c.*

coronaria, *L. (Crab Apple.)* Woods. May.

Americana, *D. C. (Mountain Ash.)* Mountains. May, June.

arbutifolia, *L.* Woods, usually in dry situations. May, June.

melanocarpa, *Willd. (Choke Berries.)* Rocky woods. Sometimes in low grounds.

SANGUISORBA, *L. Burnet Saxifrage.*

Canadensis, *L.* Wet meadows. August, October.

ORDER XXXVIII. MELASTOMACEÆ.

RHEXIA, *L.*

Virginica, *L. (Deer grass.)* Wet meadows. July.

EXTRACT

Of a Communication from J. E. DE KAY, dated New-York,
April 24, 1839.

You will excuse me, sir, for not adverting to the fact that the administration of the affairs of the State had fallen into other hands, and that you must necessarily be unacquainted with the state and progress of my department. It was my intention, however, to have communicated personally with you whenever you visited this city, (which I was informed would be the case during the winter,) and thus saved myself the necessity of a journey to Albany with my voluminous papers, and a consequent interruption to my studies.

I have now the honor to state to you that I have drawings and descriptions in detail of nearly seven hundred animals of the State of New-York; and I take this opportunity to bear witness to the skill and fidelity of the Draughtsman, Mr. J. W. Hill, who is unwearied in his labors. I have also rough notes and descriptions of many others, which are in course of preparation for publication.

I can, if your Excellency requires it, prepare by the 30th instant, a list of such as are already drawn and described; but I have many misgivings as to the appearance which such a catalogue will make in the hands of an unskilful printer.

I am, Sir, with unfeigned respect,
Your obedient servant,

J. E. DE KAY.