

REPORT  
ON THE  
GEOLOGY,  
MINERALOGY, BOTANY, AND ZOOLOGY  
OF  
**Massachusetts.**

MADE AND PUBLISHED BY ORDER OF THE GOVERNMENT OF THAT STATE:

IN FOUR PARTS:

PART I. ECONOMICAL GEOLOGY.  
PART II. TOPOGRAPHICAL GEOLOGY.  
PART III. SCIENTIFIC GEOLOGY.  
PART IV. CATALOGUES OF ANIMALS AND PLANTS.

WITH A DESCRIPTIVE LIST OF THE  
SPECIMENS OF ROCKS AND MINERALS COLLECTED FOR THE GOVERNMENT.

ILLUSTRATED BY NUMEROUS WOOD CUTS AND AN ATLAS OF PLATES.

SECOND EDITION, CORRECTED AND ENLARGED.

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Academy of Arts and Sciences: Of the Academy of Natural Sciences, Philadelphia:  
Of the American Geological Society, &c.

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of said Commonwealth ; in the Clerk's Office of the District Court of the  
District of Massachusetts.

A CATALOGUE  
OF THE  
ANIMALS AND PLANTS  
IN  
MASSACHUSETTS.

PART IV.

TO HIS EXCELLENCY LEVI LINCOLN, ESQ.  
GOVERNOR OF MASSACHUSETTS.

IN executing the part of my commission which directed me to furnish catalogues 'of the native mineralogical, botanical and zoological productions of the Commonwealth,' I have been greatly dependant upon the assistance of several gentlemen distinguished for their acquaintance with particular branches of natural history. Their names will be found prefixed to the catalogues which they have furnished. And I take this opportunity to testify to the prompt and liberal manner in which they have executed this difficult task. I ought also to remark, that the catalogues which follow, being for the most part the first that have been attempted in this quarter of the country, cannot be supposed perfect or complete. They are sufficiently so, however, to furnish a great amount of new and valuable information respecting the organized beings found within the limits of the State.

In respect to the minerals of the State, I have found it more convenient to give an account of them in describing the several rocks in which they occur, and also in the Tabular View of the rocks appended to the Atlas; and I judge it wholly unnecessary to repeat the list in this place.

Respectfully Submitted,

EDWARD HITCHCOCK.

Amherst College, October 1. 1833.

# ANIMALS IN MASSACHUSETTS.

## I.—MAMMALIA :

### OR ANIMALS WHICH SUCKLE THEIR YOUNG.

IN preparing the following Catalogue of our mammiferous animals, I have been permitted to make free use of notes kindly furnished by Dr. T. W. Harris; a gentleman so well known as an accurate zoologist, that the value of this Catalogue would have been much enhanced; could he have been persuaded to make it entirely his own.

### ORDER I.—CARNASSIERS.

#### Vespertilio.

pruinus, Say. *Hoary Bat.*  
noveboracensis, Linnaeus. *Red or New York Bat.*

#### Sorex.

brevicaudus, S. *Short tail Shrew.*

#### Scalops.

Canadensis, Cuvier. *Mole.*

#### Condylura.

crinata, Desmarest. *Star-nose Mole.*  
macroura, Harlan. *Thick-tailed star-nose Mole.*

#### Ursus.

Americanus, Pallas. *Black Bear.\**

#### Procyon.

lotor, L. *Raccoon.*

#### Gulo.

luscus, L. *Wolverene.†*

#### Mustela (Putorius.)

vulgaris, L. *Weasel ‡*  
erminea, L. *Ermine ‖*  
Canadensis, L. *Fisher Weasel.* (Dr. Emmons)  
?martes, L. *Pine Martin.*  
vison, L. (*lutreola*, Harlan and Godman.) *Mink.*

#### Mephitis.

Americana, Desmarest. *Skunk.*

#### Lutra.

Canadensis, Sabine. (*Brasiliensis*, Harlan and Godman.) *Land Otter.*

#### Canis.

(*Lupus*) occidentalis, Richardson. *Wolf.*

\* The long-legged variety is most common on Hoosic mountain, but the short-legged variety has been killed there according to Dr. Emmons.

† On Hoosic mountain rare—Dr. Emmons.

‡ The Weasel becomes white in the winter like the ermine, from which it is not distinguished by hunters.

‖ The ermine in its summer dress, greatly resembles the weasel.

## VIII.—INSECTS.

BY THADDEUS WILLIAM HARRIS, M. D.

## I.—COLEOPTERA.

## CICINDELIADÆ.

## Cicindela.

- generosa, Dejean.
- vulgaris, Say.
- patruela, D.
- purpurea, Olivier. marginalis, Fabricius.
- sexguttata, F.
- rugifrons, D. C. unicolor, D. is merely a variety.
- marginata, F. variegata, D.
- dorsalis, S.
- hirticollis, S. albohirta, D.
- repanda, D. hirticollis, var. S.
- duodecimguttata, D. hirticollis, var. S.
- hæmorrhoidalis, Hentz.
- punctulata, O.

## CARABIDÆ.

## Casnonia, Latreille.

- Pennsylvanica, L.

## Galerita, F.

- Americana, L.

## Brachinus, Weber.

- librator? D.

- fumans, L.

- formosus.

- perplexus? D.

- cordicollis, D.

- cyanipennis, S.

- medius, Harris.

- minutus, H.

## Helluo, Bonelli.

- præustus, D.

## Plochionus, D.

- Bonfilsii? D.

## Cymindis, Latr.

- pilosus, S.

- platicollis, S.

- comma.

- glabratus.

- biplagiatus.

## Dromius? Bon.

- subsulcatus? D.

## Calleida, D.

- smaragdina, D.

## Lebia, Latr.

- grandis, Hentz.

- tricolor, S.

- borea, Hentz.

- atriventris, S.

- pulchella, D.

- vittata, F.

- solea, Hentz.

- ornata, S.

- decora, S.

- viridis, S.

## Scarites, F.

- subterraneus, F.

**Acænitus, Latr.**

amœnus.

**Bracon, F.**

populator ? S. maturor.

rugulosus.

operculatus.

palpatorius.

**Mierogaster, Latr.**

carpata.

**Sigalphus, Latr.**

puppius.

patulus.

socius.

**Chelonus, Jurine.**

corrugatus.

sericeus.

dislocatus. (Not strictly a Chelonus.)

**DIPLOLEPIDIDÆ.****Ibalia, Latr.**

maculipennis.

**Figites, Latr.**

pini.

melisoma.

**Diplolepis, Geoffroy.**

nubilipennis.

flagellatus.

impolita.

devius.

potentillæ.

dichocerus.

semipicea.

oneratus.

confluentus.

**CHALCIDIDÆ.****Leucospis, F.**

affinis, S.

**Chalcis, F.**

octonotata.

**Torymus, Dalman.**

semiauratus.

azaleæ.

amethystinus.

**Perilampus, Latr.**

hyalinus.

**Pteromalus, Latr.**

arctiæ.

vanessæ.

clisiocampæ.

lepturus.

obesus.

**Eurytoma, Illiger.**

hordei, H.

studiosa.

**Eulophus, Geoffroy.**

one species.

**PROCTOTRUPIADÆ.****Proctotrupes, Latr.**

cordatus, S.

of Ipswich, particularly for the water-beetles; and to Prof. N. M. Hentz, formerly of Northampton, to Drs. Pickering, Gould, and J. S. C. Greene, Mr. John Randall, Mr. T. Nuttall, Mr. John Bethune, and Miss D. Dix, for several interesting insects. Even with these valuable accessions the present list must fall very far short of the actual number of species or kinds existing in this Commonwealth. The proportion of insects to plants has been stated to be six species of the former to one of the latter. The flowering plants of Massachusetts amount to above 1200 species; hence our insects cannot be much less in number than 7000 species.

T. WILLIAM HARRIS,  
*Librarian of Harvard University.*

Cambridge, (Mass.) Oct. 16, 1834.

## IX.—RADIATA.

This extensive class of animals has yet received but little attention in Massachusetts; comprehending, as it does, creatures of not much use to man, and for the most part inhabiting places out of the reach of common observation. In respect to some of them, also, it seems not yet to be agreed, whether they ought to be regarded as animals or plants. Through the assistance of Dr. Gould, I am able to mention a few genera and species. But I hope the deficiency of the list will lead those naturalists, who are favorably situated for examining these animals, to enlarge and perfect it.

### I.—ECHINODERMATA.

#### Asterias.

spinus, Say. *Sea-Star.* Whole coast.

#### Echinus.

granulatus, Say. *Sea-urchin.* do.

#### Scutella.

pentaphora. Beaches on the whole coast.

### CLASS II.—ENTOZOA.

#### Filaria.

many species.

#### Tricocephalus.

dispar, Rudolphi: Inhabiting man.

#### Ascaris.

lumbricoides, Lin. do.

vermicularis, Lin. do.

mystax, Rud. Inhabiting the cat.

#### Strongylus.

gigas, Rud. Kidneys of the Mink, &c.

#### Planaria.

several species.

#### Tænia.

solium. }  
tata. } Tape Worm, in man.

#### Tænia.

inhabiting the cat.

#### Cystrus.

cellulosæ, Gmel. On hogs, producing measles.

#### Cænurus.

cerebralis, Gmel. Brain of Sheep, producing the staggers.