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## Flora of West Virginia

Charles Frederick Millspaugh

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## VOLUME II.

Bullelin No. 24

WHST VIRGINIA
Agtricultural txperiment Station MORGANTOWN, W VA.

## FLORA OF WEST VIRGINIA.

JUNE, : 892



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Chemist. Agriculturist. Stenographer and Book-keeper.

## PRELIMINARY CATALOGUE

## THE FLORA OF WEST VIRGINIA.

C. F. Millspaugh, M. D.
1592.

## ABBREVIATIONS.

M. \& G-Profs. H. N. Mertz, and G. Guttenberg.
L. W. N.-Mr. L. W. Ňuttall.
V. M. - Miss Verona Mapel.

James.—Prof. Joseph F. James.
Barnes -Prof. Charles R. Barnes.
Porter.--Prof. Thos. C. Porter. G.--Dr. H. McS. Gamble.
W.-Dr. Rosecrans Workman.

## INTRODUCTORY.

In issuing this Preliminary Catalogue, I do so with no desire to convey an impression that my work in this respect is in any way complete; but simply to enter a wedge, to inspire the few who are working in the field to greater energy.

Few species are recorded in the Liverworts, and Lichens; and in the lower forms of Pond Life, and Fungi, as very little collecting or study has so far been clone in these classes.

In this preliminary list I shall not enter into the details of our geology and topography, suffice it to say the State promises more of interest to the botanist than probably any other east of the Mississippi river, as it appears to be the southern limit of many boreal, the northern of many anstral, and the eastern limit of many occidental forms. It bids fair also to continue to present many novelties; this may especially be said of all that unexplored and fascinating region laying south of the Great Kanawha River, a region that as far as II can learn the foot of a Naturalist has never trod.

With the exception of a few transient Botanists who have worked over, for their own personal pleasure, the neighborhood of some vacation resort the only attempts at obtaining a knowledge of the regeteble resources of the State may be summarized as follows:

1867 and 1871, Dr. A. S. Todd as Chairman of a Committee of the Medical Society of West Virginia, published a list of the "Medicinal Plants of West Virginia." This list contains an enumeration of 9 tiees, 7 shrubs, and 60 herbs.

1S70. Mr. DissDebarr, State Commissioner of Immigration in his "Handbook of West Virginia," compiled a list of the timber trees of the State, in which he enumerated 52 species and added 12 species of shrubs.

1S76. Prof. Fontaine in compiling his portion of the Centennial volume upon the "Resources of West Virginia," listed more carefully the forest trees, shruls and medicinal plants of the State, drawing the last from the publication of Dr. Todd. This work contains an enumeration of 69 trees and 16 shrubs.
1878. Profs. H. N. Mertz and G. Guttenberg published a
check list of the "Flora of West Virginia," being an account of work done along the upper Ohio bottoms, and in the mountains of the north-eastern portion of the State, the latter while located at Harper's Ferry. 'This list emmerate $5!9$ trece, 37 shrubs and 494 herbs.

Miss Verona Mapel, Preceptress of the High Schoolat (ilenville, Gilmer county, has quite thoroughly worked orer her immediate vicinity in connection with her school cluties. She reports 42 trees, 23 shrubs and 290 herls. Her list does not include the commoner weeds and herbs, nor the grasses or sedges.

1890-92. Mr. L. W. Nuttall an enthusiastic student of structural hotany and a keen olserver of forms, has spent considerable time working up his locality, (Nuttallburgh, Fayette county). He has kindly furnished me with a manuscript list of about 700 species, many of which I have had the pleasure of examining while visiting at his hospitable home.

Dr. H. McS. Gamble has done considerable herbalizing in connection with his zoological work in Hardy county, near Moorefield. He has kindly donated to the Station his herbarium eonsisting of 157 species, which are mentioned among the others of this list.

In compiling this Cataloguc I have had the assistance afforded by these lists, as well as personal notes from Prof. Guttenlerg, Miss Mapel, Mr. Nuttall and Dr. Gamble. I have also been kindly tendered notes taken in the State by Prof. Joseph F. James, Prof. Chas. R. Barnes, Prof. Thos. C. Porter, and Mr. Aug. D. Selby. Prof. Brown, of the University, has also loaned me his herbarium of Glenville plants for examination, as has also Dr. Workman, of Bayard.

All these contributions are acknowledged in the text by a or name initial appened to species or localities. All localities mentioned, where such eredit is not given, record my personal observations.

I am under special obligations to Prof. N. L. Britton for his kind help in comparing numbers of my plants with those in the Columbia College Herbarium, as well as for suggestions and assistance in many ways. I am also idebted to Prof. W. A. Kellerman for the examination of nearly all of the epiphytic fungi in this work; and to Prof. Charles H. Peck for the identification of some of the epiphytes, and all of fleshy fungi.

As to nomenclature: I have followed the principle of priority and the double credit system, as far as my access to literature would allow. Omissions in this matter will be found to be indirect proportion to my lack of ability to refer.

My idea of the matter is as follows: Linneus had not completed his work of generation until the issue of his "Species Plantarum" in 1753. Any changes that he made, therefore, in his prerious work, or while classifying the work of others who preceded him, should be acknowledged as positive. Surely a man has a right to correct his own crrors. We should not ignore
nore his later ideas by picking out these errors and attempting to establish them as facts today, simply because the orrors hart the precedence of the correction of them. Limncous' "Systema Plantarum" (1735) was little more than a mere list of names and should not be accepter as authority in the face of later work done by himself or some other careful systematist, even if he did not change these names in his "Species Plantarum."

To illustrate this, I feel that Robert Brown's Nasturtium should hold ; and that Linneus' Lepidium (1737) cannot be returned to his Nasturtium (1735). Linnæus named one of our genera Pavia in 1735 ; he corrected this to Esculus in 1737 ; but in 1753 decirlerl that Esculus was the proper name for the genus: Is it not right that we should regard this change and acknowledge his correction by using the name Fsculus hereafter? Properly, following this idea, we have no need to fear that the 15,000 species of Astragalus will be changed to Glycia with an "OK" placed after them ; how unfortunate it would be to mark with that American symbol for "all correct" many of the changes that Herr Kuntze advises!

As to the double credit system: I judge it no more than right to give the discoverer of any species credit for his work, even if he does err by placing the species in a wrong genus. It is also proper, I think, to acknowledge the student who afterwards detects the error; especially as this acknowledgement is part of the necessary data in considering the species.

Morgantown, IV. Va., July, 1892.


## RANUNCULACE ※.

## CLEMMATIS, L.

C. Virginiana, L. Virgin's Bower. M. \& G.

River banks, fence rows, etc., Monongalia: Marion: Preston: Wood. Welster: Long Gilarle. Gilmer: Glenville -V. M. Greenbrier: near White Sulphur Springs. Summers: near Hinton. Kanawha: near Charleston. Fayctte: near Nuttallburg-L. W. N.
C. viorna, L. Leather Flower.

Thickets in rich soil. Monongalia: Little Falls. Marion: Valley Falls-K. D. Walker. Fayette: near Nut-tallburg-L. W. N. Summers: near Hinton.
C. verticillaris, DC. Mountain Clematis.

Rocky Woods. Monongalia: near Cheat View.

## ANEIMONE, L.

A cylindrica, Gray. Long-fruited Anemone.
Dry Woodlands. Wood: near Leachtown. Jackson : near Sandyville. Rare.
A. Virginiana, L. Thimble-weed. M. \& G. Open woods and meadows. Upshur: near Buckhannon. Monongalia: along the Monongahela Rirer. Randolph: Rich Mountains, alt. 1,S25 ft.. Fayette: near Nuttallburg, where it grows as tall as 4 ft .-L. W. N. Frequent throughout the State.
A. Canadensis, L. Pennsylvania Anemone. A. Pennsyluanica, L. Rich woods, rare. Calhoun: along Laurel Run. Gilmer: near Glen rille-V. M.
A. quinquefolia, L. Wind-flower. Wood Anemone. A. nemorosa, L.
Margins of rich woods and opens. Calhoun: along Laurel Run. Gilmer: near Glenville-V. M. Fayette:
near Nuttallburg-L. W. N. And general throughout the State.
A. trifolia, L.

Rich woods. Mercer: near lngleside, McDowell: near Elkhorn. Monongalia: near Camp Eden.

The allitude of the first two stations in the southern part of the State is from $2,200-2,3,50 \mathrm{ft}$. ; these locealitios are along the same range of mountains as the original station of Canby in Virginia. The Monongalia station in the extreme northern part of the State has an altitude of about 850 ft . and is near Knipes' Pennsylvanian station. Though 1 have not as yet found the species at any point through the state that would connect these distant points, yet I fully believe that many will be found in the future.

## HPPATICA, I.

H. Hepatica (L.), Britt. Hepatica. Liver-leaf. M. \& G.

Rocky or rich woods. Gilmer: near Glenville--V. M. Greenbrier: near White Sulphur Springs. Hardy: near Mooreficld-G. Mercer: near Bluefield. Monongalia: along Decker's Creek. Fayette: near Nuttallburg, where it often grows in clefts in rocks-L. W. N. And frequent throughout the northern portions of the State.
H. acuta (Pursh). Britt.
M. \& G.

Rich woods. Gilmer: near Glenville--V. M.--Prof. Brown. Greenbrier: near White Sulphur Springs. Monongalia: near Cheat View. Throughout the State, especially eastward in the mountains. More frequent than the preceding. MeDowell: near Elkhorn. Mercer: Bluestone Jc.

## SYMDESMON, Hoffm'g.

S. thalictroides (L.), Britt. Rue Anemione. (Thalictrum anemonoides, Michx.) M. \& G.
Woods and hillsides. Gilmer: near Glenville-V. M. Fayctte: near Nuttallburg-L. W. N. Monongalia: near Uffington and Morgantown. Frequent throughout the State. Hardy : near Moorefield-G. Mercer: near Beaver Spr.

## Forma rosea.

A heautiful rose colored clump of the species has persisted for two years in Monongalia at Little Falls near the Cascade.

## THALICTRUIM, L.

T. dioicum, L.
M. \& G., V. M., L. W. N.

Rocky woods: frequent throughout the State. Especially noticeable in the Alleghanies.
T. polygamum, Muhl. Ćommon Meadow Rue. M. if G.

Damp meadows and near streams and ditches. Randolph: rich growthe in the bottoms along Tygart's Valley River. Fayette: near Kanawha Falls-James; near Nuttallburg, alt. 2,000 ft.-L. W. N. Gilmer: near Glenville. Frequent throughout the State.
T. purpurascens, L. Purplish Mearlow Rue.

Dry, open woods and rocky hillsites. Wirt: near Elizabeth; near Burning Springs. Webster: near Upper Glade. Randolph: along Tygart's Valley River, alt. 2,100 ft. Fayette: near Nattallburg -L. W. N.
T. clavatum, DC.

Fayctte: Near Nuttallburg, in sandy clefts of rocks around waterfall, alt. 200 ft ., one station-L. W. N.

## TRAUVETTERIA, F. \& M.

T. palmata, F. \& M. False Bug-bane.

Plentiful along the Blackwater Fork of Cheat, about one mile below Davis in Tucker county. Fayette: near Hawk's Nest; and Loul, Creek-James; near Nuttallburg, common--L. W. N.

## RANUNCULUS, I.

R ambigens, Wats. Water Plantain Spear Wort (R. alismacfolius, (iray.) One station only; Upshur: in a marshy spot near Lorentz.
R. abortivus, L. Small-flowered Crowfoot. L. W. N., Y. M., M. \& G. Damp, shady places, frecquent throughont the State.
R. sceleratus, L. Cursed Crowfont.
Y. M. Moist places, commoni thronghont the Nitate.
R. recurvatus, Poir. ILookerl (howfont. M. if. Rich, open woorls. Abundant along the Monongahela river in Chshur, Barbour, Taylor, Marion, and Monongaliar counties. Fayette: near Nuttallhurg, not common-L. W. N. Mereer: near Simmons.
R. fascicularis, Muhl. Early Crowfont.

Dry or moist grassy hillsides. Monongalia: near Morgantown. Mineral: near Keyser-W. Gilmer: near (ilen-ville-V. M. Hardy: near Mooreficld-(i.
R. septentrionalis, Poir. Buttereup.

Moist, shady places. Fayette: near Nuttallburg-1. W. N., and general throughout the State.
R. Pennsylvanicus, L. Pemsylvania Buttercup.

Damp woods. Monongalia and Marion, along the Monongahela river.
R. REPENS, I . Creeping Crowfont. M. if C.

Low grounds. Mineral: Banks of the Potomac near Keyser. Jefferson: near Shenandale Springis.
R. ACRIS, L. Tall Buttereups.

Waste places infreyuent. Wood: near Parkershurg, Jefferson: near Shenandoah Junction. Randolph: in clearings on Cheat Mountain, near Cheat Bridge, alt. 3350 ft . Gilmer: near Glenville-V. M.

## HELLEBORUS, L.

H. viridis, L. Green Hellebore.

Hardy : near Moorefield-G. It was from specimens sent to Dr. Gray from this station by Dr. Gamble, that the location" W. Va." was credited in the Mannal.

## CALTHEA, L.

C. palustris, L. Marsh Marigold.

Two stations only known to me; Grant: in a spring run in deep woods near Bayard, about fifty plants within an area of one hundred feet. Preston: near Terra Alta.

## ISOPYRUM, L.

I. trifolium, (L.), Britt. Gold Thread. Coptis trifolia, Salisb.

Deep, rich mountain woods. Preston : near Mill Run and Cranesville.

## AQUILEGIA, I.

A. Canadensis, L. Wild Columbine. M. \& G.
Damp, rocky places. Mineral : along Knobby moun-
tains. Monongalia: along Cheat River. Calhoun: along
Little Kanawha River, Gilmer: near Glenville-Y. M.;

Prof. Brown. Faycte: near Nuttallhurg-L. W. N. Hampshire: near Does Ciully. Marly : near Moorefield.

A small form 6 to $S$ inches high, with small leaves and flowers. Mercer: near Beaver Spr.

## DELPHINIUM, I.

D. tricorne, Michx. Dwarf Larkspur.

Dry woods. Monongalial : along ('heat and Monongahela Rivers. Marion: along the Momongahela. (iblmer: nem Glonville-V'. M. ; Prof. Brown. Frequent throughout the northern part of the State.

## Forma albiflora.

Monongalia: prevalent near Stumptown. The flowers are pure white with no tinge of blue.
D. Consolida, L. Field Larkspur.

Frequent in ohl ficlds and along roadsides. Lewis: along Stone Coal Creck. Monongalia: near Morgantown. Upishur: near Buckhamon. Randoph: near Bererly. Kanawha: near Kamawha Falls-James.

## ACONITUM, Tourn.

A. uncinatum, L. . Wihl Monk's Hoorl.

Decpe, rich woots along streams. Ramdolph: along Cheat River near Cheat Bridere. Momongalia: near Cant Eden. Fayette: near Nuttalliugg, along New River-L. W. N.

## CIMICIEUGA, I.

C. Americana, Michx. American Bug-lane.

Plentiful throughout the mountain regions of Minemal, Hampshire, Grant, Tucker, Harly : near Mooreficld; Randolph, Pendleton, Wchster, Pocahontas, and Grecnbrier counties. Fayette: near Nuttallburg-L. W. N. McDowell: near Elkhorn.
C. racemosa (L.), Nutt. Rattle-weed, Black Cohosh. M. \& (4.

Rich opens and clearings. Woocl: near Leachtown. Sewis: along Stone Coal ('reek. Randolph: near Yalley Bend; Point Mountain, alt. 3300 ft. Webster: Buffalo Buil Mountains. Gilmer: near flenville-T. M. Fayette : near Nuttallburg-L. W. N. and frequent throughout the State.

## ACTEAA. L.

A. spicata, (I.) rar. rubra, Ait. Red Baneberry.

Rich woods, infrequent. Randolph: on Point Moun-
tain. Grant: near Bayard. Tucker: near Davis.
A. alba. Mill. White Bameherry. M. \& G.

Rich woorls. Randolph: on Point Mountain. Tucker: near Davis. Grant: near Bayarl. Fayette: mar Nuttall-lurg.-L. W. N.

## HYYDRASTIS, L.

H. Canadensis, L. Ycllow Root, Yellow Puccom, (iolden Scal. Deep Rich woods. Jackson: near Ripley. Wirt near Burning Springs. Grant: near Bayart. Upshur: summit on Staunton pike. Lewis: along Leading Creck. Calhoun : along Laurel liun: Gilmer: near Glenville.-V. M.; Prof. Brown. Monongalia: along Cheat River.

## ZANTHORRHIZA, Marshall.

Z. apiifolia. L. 'Her. Shrub Yellow Root.

Rich rocky mountain woods. Nicholas: on Mumble-the-Peg Creek, plentiful. Fayette: near Nuttallhurg, com-mon.-L. W. N.

## MAGNOLIACEA.

## MAGNOLIA, I.

IV. acuminata, L. Cucumber Tree, "Y̌ellow Linn." M. \&f G. Rich woods. Monongalia: along the Monongahela river, especially near Little Falls, Opekiska, and Montana. Wirt: along Little Kanawha River. Randolph: on Point Mountain, alt. $2335-3700 \mathrm{ft}$. Webster: along Buffalo Bull Mountains. Nicholas: at Beaver Mills, and Collett's Glade. Jackson: near Sandyville. Nineral : near Keyser. Preston: along B. \& O. R. R. Randolph: on Cheat Mountain, alt. 2800 ft . Gilmer : near Glenville-V. M. Monroe: near Alderson. Summers: near Greenbrier Stock Yards; near Hinton. Kanawha: near Handley. Harrison: near Shinnston and Lumberport. Fayette: near Nuttallburg-L. W. N.
M. tripetala, L. Umbrella tree. M. Umbrella, Lam. Rich woods near streams. Wirt: near Burning Springs. Randolph: on Point Mountain, alt. 2800 ft . Kanawha: near Charleston-C. R. Barnes; James. Nicholas: near Beaver Mills, alt. 2125 ft . Gilmer: near Glenville-V. M. Monongalia: Little Falls. Summers: near Hinton. Harrison: near Shinnston and Lumberport. Fayette: near Nuttallburg, rare-L. W. N. Hardy: near Moorefield. McDowell: near Elkhorn. Mercer: Bluestone Junction and Ingleside.

IM. Fraseri, IValt. Ear-leaved Magnolia.
Deep rich mountain woods. Randolph: on Point Mountain, alt. 3700 ft . Welsster: on Puffilo Bull Mountain, alt. 3400 ft . Nicholas: near Beaver Mills, alt. 2125 ft . Fayette: near Nuttallburg - L. W. N. Summers: near Hinton. Mchowell: near Elkhorn. Mercer: Bluestone Je.

## LIRIODENDRON, L.

L. Tulipifera L. Tulip Tree, "White, Y'cllow, or Hickory Poplar." Mi. \& G. Conmon in rich woods throughout the State. Magnificent trees in Randolph, Pocahontas, Greenbrier, Wehster, Nicholas, and Preston countics. Summers: near Hinton. Fayette: near Kanawha Falls; near Nuttallburg, commonL. W. N. Hardy: near Moorefield-G. Merece: near Ingleside.

## ANONACERE.

## ASIMINA, Adans.

A. triloba (L.), Dunal. Papaw. M. \& G.

Rich soil near streans, common. Woorl: near Kamawha Station. Wirt: along Straight Creek. Webster: Buffalo Bull Mountains, alt. 2100 ft . Nicholas: along Peter Creek. Fayette: along Gaulcy river. Kanawha, Putnam and Mason: along the Great Kanawha. Gilmer: near Glen-ville-V. M. Greenbrier: near Ronceverte. Summers: near Hinton. Marion : near Worthington, Fairmont and Montana. Monongalia : general. Fayette: ncar Nuttallburg, common. -L. W. N. Morgan: near Cacapon. Hardy: near Moorefield. Mercer: near Ingleside.

## MENISPERINACE <br> MENISPERMUM, L.

M. Canadensis, L. Moonseed. V. M., M. \& G.

Thickets. Wirt: along Little Kanawha River. Marion and Monongalia: along the Monongahela, Greenbrier: near White Sulphur Springs. Fayette: near Nuttallburg, pistillate plants, rare.-L. W. N. ; and frequent along streams throughout the State. Hardy: near Moorefield. Mercer: near Princeton.

## BERBERIDACE 忍.

## BERBERIS, L.

B. Canadensis, Pursh.

Barberry.
Fields and roadsides. Mureer: near Beaver Spring, where it partakes of the nature of a weed.
B. vulaaris, L.

Thickets and roadsides. Afonongalia: a wide escape near Laurel Point. Mercer: a wide escape near Ingleside.

## CAULOPHYLLUM, Michx.

C. thalictroides, (L.), Michx. Blue Cohosh. M. \& G.

Deep, rich woods. Randolph : Rich Mountains; Point Mountain, alt. 3,300 ft. Monongalia: along the Monongahela River. Gilmer: near Glenville-V. M. Fayette : near Nuttallburg-L. W. N. Mercer: near Bluefield. Frequent throughout the State.

## JEFFERSONIA, Barton.

J. diphylla, (L.), Pers. Twin-leaf. M. \& G.

Rich woods. Monongalia: near Morgantown. Marion : near Glover's Gap. Wetzell: near Littleton. Marshall: near Glen Easton. Gilmer: near Glenville-V. M. ; Prof. Brown. Cabell: near Huntington-Aug. Selby.

## PODOPHYLLUM, L.

P. peltatum, L. May Apple. Mandrake. V. M.; M. \& G.

Frequent throughout the State, in some rich spots very abundant. Randolph: Rich Mountains, alt. 16102125 ft ; Point Mountain, alt. 3300 ft . Fayette: near Nut-tallburg-L. W. N. Hardy : near Moorefield-G. Mercer: Bluestone Jc.

NYMPHACE $\mathrm{EA}^{\mathrm{N}}$.
CASTALIA, Salisb.
C. odorata, (Dryand), Woodv. \& Wood. White Water Lily. Nymphaca odorata, Ait. In slack waters. Preston: near Pennsylrania line, rare.

## NYMPHEA, L.

N. advena, Soland. Yellow Pond Lily. V. M. ; M. \& (i. In slack waters. Preston: near Terra Alta. Wood: Wirt: Calhoun and Cilmer: along the Little Kanawha River. Upshar: near Lorentz. Norgan: along the Little Cacapon. Putnam; near Buffalo. Hardy: near Moorefield.

## PAPAVERACE 画.

## SANGUINARIA, L.

S. Canadensis, L. Blood-root. "Coon-root." M. it Ct.

Rich woods, frequent. Randolph: Point Mountain. Monongalia: near Morgantown. Jefferson: near Flowing Spring, and Shenandale Spring. Gilmer: near GlenvilleV. M. Fayette: near Nuttallhurg-L. W. N. Throughout the State. Hardy: near Moorefield-G.

## STYLOPHORUM, Nutt.

S. DYPhLlum (Michx.) Nutt. Celandine Poppy.

Ohl fields. Ohio: near Wheeling-M. if G.

## CHILIDONIUM, 工.

C. MAJUs, L. Celandine. MI. \& C C .

Waste grounds, near dwellings. Monongalia: near Easton; near Morgantown. Jefferson: near Charlestown, abundant. Lewis: near Weston. Hardy : near Moorefich.G. Hampshire : near Rommey.

## PAPAVER, L.

P. DUBIUII, L. Smooth-fruited Corn-popy.

Cultivated grounds, and waste fields. Jefferson: near Shenandoah Je.; near Charlestown, abundant. Berkeley: near Hedgesville, a weed.

## FUMARIACER.

## ADLUMIA, Raf.

A. fungosa, Ait. (irene.

Monongalia: chmbing arer rocks, Tiblis Run.

## BICUCULLA, Adans.

B. Cucullaria, (L.) Dutchman's Breeches. M. \& (i.

Rich woods. Monongalia: near Morgantown ; along Cheat River. Gilmer: near (hlenville-V. M. Harly : near Moorefield-(: Fayette: near Nuttallburg-L. W. N.
B. Canadensis, (Goldie.) Squirrel Corn. M. \& (i.

Rich woods. Monongalia and Marion: along the Monongahela River. I'reston : along Cheat River. Fayette: near Nuttallhurg-L. W. N.
B. eximina, (DC.)

Pocahontas: summit of Spruce Knob, alt. 4800 ft.A. D. Hopkins.

## NECKERIA, Scop.

N. glauca, (L.) Pale Corydalis, M. \& G. On rocks. Randolph : on Lone Sugar Knob. Gilmer: near Glenville- $V$. M.
N. flavula, (Raf.) Yellow Corydalis.

Rich soils. Common throughout the northern counties. Fayette: near Nuttallburg-L. W. N. Hardy : near Moorefield.
N. aurea, (Willd.) Golden Corydalis.

Along streams. Hardy : near Moorefield-G.

## FUMIRIA, I.

F. officinalis, L. Fumitory.

Waste places. Hardy: near Moorefield—G.

## CRUCIFERK.

## NASTURTIUM, R. Br.

N. opricinale, R. Br. Water Cress. M. \& G. Cold spring runs, frequent. Jefferson: near Shenandale Spring's ; near Flowing Spring. Lewis: on Leading Creek. Wirt: near Elizabeth.
N. sylvestre, (L.), R. Br. Yellow Wood-cress.

Moist places in open woods, frequent. Monongalia: near Morgantown. Preston: Cold Spring. Marion: near Montana. Jefferson: near Shenandale Springs.
N. obtusum, Nutt.

River banks. Mason : near Point Pleasant.
N. palustre, (L.), DC. Marsh Cress.
M. \& G .

Marshy places and glades, infrequent. Webster: near Welch Chlade. Kanawha: near Charleston. Preston: near Kingwood. Fayctte: near Nuttallburg, rare-L. W. N. Mason: near Point Pleasant; Banks of the Ohio. Wood: near Parkershurg.
N. hispidum, (Desv.), DC. N. palustre var. hispidum, (iray. Preston: near Kingwood.
N. Armoracia, (L.), Frics. Horseradish. M. \& G. Escaped from cultivation in many waste places and fields. Marshall : frequent in several places where it is complained of as a weed; difficult to eradicate. Jefferson: near Shenandoah Junction.

## BARBAREA, R. Br.

B. vulgaris, R. Br. Yellow Rocket. M. \& G.

Becoming a weed in many places in Jefferson: Berkcley : Morgan : Hardy : near Moorefield-G; and other counties.
B. PRecox, (Smith), R. Br, Scurvy Grass.

Running wild near Charlestown in Jefferson; and Lewis: near Weston.

## ARABIS, L.

A. patens, Sulliv.

Moist rocky places in woods. Monongalia: near Monongahela River at Uffington. Preston: Cold Spring.
A. lævigata, (Muhl.), Poir. M. \& G.

Rocky places, frequent. Monongalia: near Morgantown, and Little Falls. Marion: near Catawba. Fayette: near Nuttallburg, common-L. W. N.
A. Canadensis, L. Sickle-pod. M. \& G.

Woods, and along cool runs. Monongalia: near Granville, near Morgantown and Uffington.
A. lyrata, I.
M. \& G.

Rocky or sandy places. Monongalia: shores near mouth of Cheat River. Mercer: near Ingleside.

## CARDAMINE, L.

C diphyila, (Michx.), Wood. Pepper Root. Dentrim diphylla, Michx. M. © (t.
Common in deep, enol ravines and in the mountains. Monongalia: Wirt: Wood: Calhoun: Lewis: Upshur: Jef-
ferson: Grant: and Tucker eounties. Gilmer: near Cilen-ville-V. M. ; Prof. Brown. Faycte: Hawk's Nest-P'orter; near Nuttallburg-L. W. N.
C. heterophylla, (Nutt.), Wood.
I). heterophiyllin, Nutt.

Rocky, moist places. Monongalia, near Little Falls; opposite Uffington. Faycte: near Nuttallhurg-L. W. N.
C. laciniata, (Muhl.), Wood.
M. \& (i.

Moist woorls, frequent. Monongalia: opposite Beechwoods and Uffington; near Little Falls. l'reston; Cold Spring and elsewhere. Gilmer: near Gienville-V. M. Fayette: near Nuttallburg-L. W. N. Harly: near Moore-field- C .

I'er. multifida. (Muhl.)
Rich woods. Monongalia: near Little Falls.
C. hirsuta, L. Small Bitter Cress. M. it G.

Wet places. Monongalia: Monongahela River below Morgantown; above Little Falls. Marion: near Catawba and elsewhere. Fayette: near Nuttallburg-L. W. N.
C. bulbosa, (Schreb), B. S. P. Spring Cress. C. rhomboillen, DC. M. \& G

Wet meadows and springy places. Preston: Cold Spring. Monongalia: road to Cheat River beyond Easton. Wood: Kanawha Station. Fayette: near Nuttallburg, com-mon-L. W. N. Mercer: near Bluefield.
C. Douglassii, (Torr.), Britt. (C. rhomboidea, var. purpurea, Torr.) Damp places. Monongalia: near Morgantown.
C. rotundifolia, Michx. Mountain Water Cress. M. \& G. Cool Springs. Preston: Cold Spring. Jefferson: Flowing Spring. Wirt: near Burning Springs. Calhoun: Laurel Run. Monongalia; near Morgantown.

## DRABA, I.

D. ramosissima, Desv. Whitlow Grass.

On wet cliffs. Jefferson: cliffs along Shenandoah River between Millville and Harper's Ferry. Tucker: Cliffs near Falls of Blackwater. Hardy: near Moorefield.
D. verna, L. Shad Flower.

Sandy wastes and roadsides. Monongalia: banks of Falling Run; banks Monongahela below Morgantown, and near Little Falls. Marion: near Opekiska. Fayette: near Nuttallburg-L. W. N.

## HESPERIS, L.

H. matronalis, L. Dimme's riolet.

Eseaper to waste placers. Monongalia : cinders of railroad hanks near Murgantown.

## SISYMIBRIUIM. L.

S. officinale, (L.), Scop). Herlge Mustaml. M. if (i. Ruadsidesand ditches, too common throughout thestate.
S. Thalina, (L.), Gay.

Waste grounds. Fayctte: near Nuttallburg-L. IV.N.

## ERYSIMIUMI, L.

E. cheiranthoides, L. Wommeed Mustard. M. if Gt.

Roadsides and railroad embankments. MLomongalia: near Morgantown. Jefferson : ncar Shemandoah Junction. Mineral: near Piedmont.

## CAMELINA, Crantz.

C. Sativa, (L.), Crantz. False Flax.
Fidds and waste grounds. Ninerad: near Keyser-
W. Jefferson: near Charlestown ; near Shenandoalh Jc.

## BRASSICA, L.

B. NIGRA, (L.), Koch. Black Mustard. Mi. \& (i.
Fields and waste places. Fayette: near Nuttallburg, much eaten as "greens" in spring-L. W. N. A common weed throughout the State.
B. sinapistrumi, Boiss. Charlock."Crowel-weed." Kraut-weed.

A miserable weed in wheat fields in Jefferson and Berkeley counties. Less abundant elsewhere throughout the State.

CAPSELLA, MLoench.
C. Bursa-pastoris, (L.), Moench. Shepherd's Purse. L. IV. N., Fields and roadsides, common throughout the State.

## LEPIDIUM, $L$.

L. Virginicum, L. Wild Peppergrass. L. W. N., M. it (t.
Fields and roadsides, common throughout the State,

L cancstre (L.), R. Br. English l'eppergrass, "(ilemm-verol,"

 ley counties, where it is known as "(ilemn-weer," it being first noticed in the fields of Colonel Cilenn; who tells me that the werd was quite plentiful, however, in these fichls before he purchased them, having been brought there in dover seed bought in Magarstown, Mde, and sonw ly the previous owner of the farm. The weed is now the worst pest in the large wheat fichls of those counties.

## RAPHANUS, L.

R. sativus, L. Radish.

Freduently persistent in waste grounds and cultivated fields, in many parts of the State.

## CAPPARIDER.

## CLEOME, L.

C. Spinosa, L. Spider Tlower. ('. pumpris W'illd.

Escaped from farther south, at Barboursille near the Guyandootte River, Cabell county-Prof. James, 1877.

## CISTINE RE

## HELIANTHEMIUM, Pers.

H majus, (L.) B. S. P. Frost-weed. H. Canadense, Michx. Dry soils. Preston : near Terra Alta.

> LECHEA, L.
L. minor, L. Pin-weèd. L. major, Michx.

Dry places. Summers: near Hinton. Fayette: near Nuttallburg, alt. 1600 ft -L. W. N.

L Leggettii, Britt \& Hollick. L. minor, Lam.
Dry sandy places. Fayette: near Nuttallburg, plentiful at an alt. of 2000 ft .-L. W. N.

## VIOLARIEA.

## VIOLA, L.

V. pedata, L. Bird's-foot Violet.
Sandy soils. Monongalia: at The Flats. Mineral:
along the Potomac near Keyser-W. Randolph: on Point
Mountain.

Tite: bicolor, Pushl. Pansy Violet.
Hardy: near Moorefich-G. Hampshire: near Rom-ney-A. D. Hopkins.
V. palmata, L.
M. \&

Near runs in monst grommel. Nonongalia: near The Flats, Morgantown. (iilmer: near (ilemville-V. M. Fayette: near Nuttallhurg-L. W. N.
V. cucullata, Ait. Common Blue Violet. L. Wr. N., V. M., M. \& (i., (i.

Low grounds; common throughout the State.
V. sagittata, Ait. Arrow Leaved Violet. M. \& G. Dry or moist, sandy places. Monongalia: near Morgantown, Uffington and Little Falls. Preston: near Cold Spring. Gilmer: near (ilenville-V. M. Fayette: near Nuttallburg-L. W. N.
V. blanda, Willd. Sweet White Violet.
M. \& G.

Damp, woods. Monongalia; near Morgantown. Gilmer: bear (ilenville-T. M. Fayette: near Nuttallburg-L. W. N., and frequent throughout the State. McDowell: near Elklorn.
V. primulaefolia, L.

Damp soils. Faycette: ncar Nuttallburg-L. W. N. McDowell: near Elkhorm.
V. lanceolata, I. Lance-leaved Violet.

Boggy places. Monongalia: up Falling Run, above Morgantown, the only station so far known to me.
V. rotundifolia, Michx. Round-leaved Violet. M. \& G.

Cold woods. Randolph: Rich Mountains, alt. 2110 ft. Gilmer: near Glenville-Y. M. Fayette: near Nuttall-- burg-L. W. N. Mercer: near Ingleside and Wills.
V. pubescens, Ait. Yellow Violet. M. \& G.

Rich woods. Mineral : near Keyser-W. Randolph: Rich Mountains, alt. 2125 ft . Grant: near Bayard. Tucker: along Blackwater Fork of Cheat. Gilmer: near Glen-ville-V. M. Fayette: near Nuttallburg-L. W. N. Monongalia: near Cassville.

Ver. scabriuscula, T. \& G.
Rich woods. Monongalia: near Morgantown, common. Fayette: near Muttallburg-L. W. N.
V. hastata, Michx.

Woodlands. Fayette: near Nuttallhmg-I. W. N. Oak woods. Mercer: near Blucfield. McDonwell : near Elkhorn.

| ensis. L. |  |
| :---: | :---: |
|  | Rich w |
|  | great profus |
|  | R. R., between Beechwoods and Little Falls; near Uffing- |
|  | ton. Marion: near Opekiska and Catawha. Gilmer: near |
|  | Glenville -- V. M. Fayette: near Nuttalllourg - L. W. N. |
|  | Dowell: ne |
|  | ta, Ait. |
|  | Alo |
| Fayette: near Nuttallburg-L. W. N. Hardy: near Moore- |  |
|  | field-G. Mc |

V. rostrata, Muhl. Long-spurred Violet.

Hillside. Fayette : near Nuttallburgh—L. W. N.
V. tenella, Muhl. Ficld Violet. (V'. tricolor, var. arvensis, DC.)

Fields and rocky opens. Monongalia :common. Mineral: near Keyser-W. Fayette: near Nuttallburg-L. W. N.

## SOLEA, Ging.

S. concolor (Forst.), Ging. Green Violet.
Rich woods. Wirt: near Burning Springs. © C. C.
along Laurel Run. Gilmer : near Glenville-V. M.

POYLGAIEIS.
POLYGALA, L.
P، sanguinea, L. Red Milkwort.
Sandy fields. Wood: near Kanawha Station. Webster: Upper Glade. Preston near Terra Alta. Fayette: near Nuttallburg, alt. 2400 ft.-L. W. N.

Forma. albiflora.
In the glades of Webster and Preston counties.
P. mariana, Mill. fastiginta, Nutt.
Damp places. Preston : near Terra Alta.
P. Curtissii, Gray.

Glady spots. Fayette: near Nuttallburg-L. W. N.

P．cruciata，L．Cross Milkwort．
Margins of Clarles．Preston：near Reedsville．Wern－ ster：Upper（ilade．

P．verticillata，L．Whorled Milkwort．
Dry places．Wirt：near Burning Springs．Lewis： near Leading Creek．Upshur：near Buckhamon．Sum－ mers：near Hinton．

P．ambigua，Nıtt．
Dry soils．Wood ：near Lockhart＇s Run．Wirt：near Elizabeth．Calhoun：on Nigh－Cut IIill．Monongalia：hills below Morgantown．Fiyette：near Nuttallburgh－L．W．N．

P Nuttallii，T．\＆G．
Mountain woods．Fayette：near Nuttallburgh，alt． 2000 ft ．－L．W．N．

P．Senega，L．Seneca Snake－root．
Rocky soils and rich bottoms．Mineral：near Key－ ser－W．Webster：in Welsh，Long and Collett＇s glades． Preston：Reedsrille glade．（Long glade is said to be white with this species when in bloom．）

P．paucifolia，Willd．Fringed Polygala．
Rocky woods．Mineral：near Keyser along the Knobby Mountains．－W．Hardy：near Moorefieid－（i．

## CARYOPHYL工用平．

## DIANTHUS，L．

D．Arimeria，L．Deptford Pink．
Fields，roadsides，and river banks．Marion：near Catawba－K．D．Walker．Gilmer：near Glenville－V．M． Fayette：near Nuttallburg，rare－L．W．N．；near Kanawha Falls－James．Summers：near Hinton．Jefferson：at Har－ per＇s Ferry－M．\＆G．

## SAPONARIA，L．

S．officinalis，L．Soap－wort．Bouncing Bet．
Becoming a very common weed along roadsides throughout the more settled portions of the State．In es－ pecially large areas along the B．\＆O．R．R．and Shenandoah Valley R．R．，in Jefferson Co．Calhoun：Grantsville．Gil－ mer：Glenville－V．M．Berkeley ：Martinsburg．Summers： near Hinton．Fayctte：near Nuttallhurg－L．W．N．Har－ dy：near Moorefield－G．Monongalia：near Lock 9.

## SILENE,L .

S. stellata, (L.), Ait. Starry Campion.
M. \& (i.

Wooded banks, frequent. Wood: Wirt: Calhoun: Gilmer: Lewis: and Upshur, common. Preston : near Terra Alta. Summers: near Hinton. Greenbrier: near White Sulphir Springs. Fayette: near Nuttallburg-L. W. N. Hardy: near Moorefield- (t.
S. Virginica, L. Fire Pink. Catchfly. M. \& G. Open woods. Kanawha: near Charleston-Barnes. Fayette: near Nuttallburg, very common-L. W. N. Mercer: near Bluefield. Monongalia: permian formations at Cassville.
S. nivea, Otth.

Wooded banks. Fayette : near Nuttallburg-L. W. N.
S. Pennsylvanica, Michx. Wild Pink.

Open woods. Monongalia: near Morgantown. Mineral: near Keyser-W. Gilmer: near Glenville-V. M. Hampshire: Doe's Gully.
S. antirrhina, L. Sleepy Catchfly.

Dry places. Fayette: near Nuttallburg--L. W. N.
LYCHNIS, L.
L Githago, (L.), Lam. Corn Cockle. V. M. ; M. \& G.
A frequent weed in wheat fields throughout the State. Fayette: near Nuttallburg, in shady places-L. W. N.

## CERASTIUMI, L.

C. vulgatumi, L. Large Mouse-ear Chickweed.

Waste grounds and fields. Ohio: Cowan's Hill, near Wheeling-M. \& G. Gilmer: near Glenville-V. M. Wood: near Waverly and elsewhere, becoming frequent. Fayette: near Nuttallburg-L. W. N.
C. Viscosum, L. Mouse-ear Chickweed.

Fields. Ohio: Cowan's Hill, near Wheeling-M. \& G. Fayette: near Nuttallburg-L. W. N. Monongalia: near Morgantown.
C. arvense, L. Field Chickweed. M. \& G. Dry places. Frequent throughout the State.
C. nutans, Raf. Star Chickweed. M. \& G. Woods near-streamlets; cemmon in Monongalia and Marion counties.

## STELLARIA, L.

S. MIEDIA, (L.), Smith. Chickweed. V. M., M. \& G.

Damp places, common everywhere. Fayette: ncar Nuttallburg, blooms all winter-L. N. N.
S. pubera, Michx. Great Chickweed.
M. \& G .

Shady places, common. Monongalia, Marion and Preston counties. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg-L. W. N. Mereer: near Blucfieh.
S. longifolia, Muhl. Long-leaved Stitchwort.

Damp soils. Gilmer: near Glenville- Y. M.

## ARENARIA, L.

A. SERPYLLiforia, L. Thyme-leaved Sandwort. M. \& G. Sandy banks. Kanawha: near Charleston-Barnes. Hardy : near Moorefield-G.

## SPWRGULA, I.

S. ARVENsis, L. Field Spurry.

Fields. Preston: near Cranberry Summit-MI. \& (t.; near Terra Alta.

## PORTUエACER <br> PORTULACA, I.

P. oleracea, L. Purslane. "Pusaley." L. W. N., M. \& G.

A reed in cultivated grounds and gardens. Common throughout the State.

## CLAYTONIA, L.

C. Viroyinica, L. Suring Beauty. M. \& G .

Common throughout the northern parts of the State, in rich open woods and along spring runs. Gilmer: near Gilenville-V. M.; Prof. Brown. Hardy: near Mooreficld - (
C. Caroliniana, Michx.

Frequent with the former sperics. Marion, Preston, Woorl, Wirt, Calhoun, Cilmer, Lewis, Uphur and Randol?h counties. Fayette: near Nuttallburg-L. W. N.

## HYPERICINE

## ASCYRUM, L.

A. Crux-Andreae, L. St. Andrew's Cross. M. if (i.

Dry sandy places. Upshur: summit of Staunton Pike. Randolph: Rich Mountains; along Tygart's Valley River. Fayctte: near Gauley Bridge; ncar Nuttallburg-L. W. N. Cabell: near Barboursville-Jances.

## HYPERICUNI, L.

H. prolificum, L.
M. \& (i.

Glade regions. Webster: Upper Cilade. Preston: near Reedsville. Gilmer: near Glenville-V.M. Fayette: ncar Kanawha Falls-James; near Nuttallburg-L. IV. N.
H. densifiorum, Pursh. Shrubby St. John's Wort. M. \& C. Glate regions, and moist meadows. Wood: near Lockhart's Run. Webster: in the glamles. Preston: Terra Alta, and Reedsville glades. Fayette: near Nuttallburg-L. W. N.

H virgatum, Lam. var. acôuifolium, Coulter.
Fayette: near Mawk's Nest-Porter; near Nuttall-burg-L. W. N.
H. PERFORATUM, L. St. John's Wort. "St. John." MI. \& G. Fields and roadsides. Randolph: along Tygart's Valley River. Monongalia, Marion, Preston; (trant: near Bayard. Fayette: near Nuttallburg-L. W. N. Not yet very plentiful in the State.
H. maculatum, Walt. Spotted St. Joh's Wort.
M. \& G .

Glade regions and wet places. Wood: near Kanawha Station. Wirt: near Elizabeth. Preston: near Reedsville and Terra Alta. Webster: Upper, Long, and Welsh Glades. Fayette: near Hawk's Nest and Kanawha Falls-James; near Nuttallburg-L. W. N.
M. mutilum, L.
L. W. N., M. \& G.

Ditches and low grounds, common throughout the State.
H. Canadense, L. Canadian St. John's Wort.

Glade regions of Preston and Webster counties. Fayette: near Nuttallburg, in spahgnum bogs-L. W. N.
H. gentianoides, (L.), B. S. P. Orange Grass.
(H. Sarthora, Michr.
Dry fields. Monongalia: near The Flats. Wood:
near Kanawha Station. Fayette: near Kanawha FallsJames.
H. adpressum, Barton.

Moist grounds. (irecubrier: near White Sulphur Springs.

H ellipticum, Hook.
In sphagnous glades. Preston: near Terra Alta.

## MALVACEAE.

ALTHIEA, L.
A. Rosea, L. Hollyhock.

Appears annually along the B. \& O. R. R. tracks in Berkeley: near North Mountain, apparently a thorough establishment.

## IVIALVA, L.

IM. Rotundifolia, L. Common Mallow. G., L. W. N., M. \& G. Cultivated grounds and waysides, a common weed.
M. moschata, L. Musk Mallow.

Roadsides and meadows escaped from cultivation. Lewis: along Stone Coal Creek. Upshur: near Lorentz. Monongalia : near Morgantown.

> SIDA, L.
S. SPINOSA, L.

Waste grounds and fields. Monongalia : near Morgantown, common. Fayette: near Nuttallhurg-L. W. N. Jefferson : near Shepherdstown. Mason : near Point Pleasant.
S. Napæa, Cav.

Rocky banks along the Great Kanawha River. Kanawha: opposite Cannelton. Fayette: Quinnimont; near Nuttallburg, frequent and always with 8 carpels-L. W. N. Mason : near Point Pleasant.

## ABUTIILON, Gaertn.

A. Avicenne, Gaertn. Indian Mallow. American Jute.

A too common weed in waste and cultivated soils. Monongalia, Wood, Wirt, Calhoun ; Mason : near Point Pleasant; near Brighton. Fayette: near Nuttallburg-L. W. N. Berkeley : near Martinsburg, a very bad weed,

## HIBISCUS, L.

H. Moscheutos, L. Swamp Rose Mallow.

Brackish, marshy places, and ditches near salt works. Mason: near Point Pleasant. Kanawha: near Charleston. Fayctte: near Nuttallhurg-L. W. N. The pink form, Jackson : near Sandyville. Hardy: near Moorefield.
H. Trionum, L. Bladder Ketmia. M. \& (k.

Cultivated grounds. Monongalia: a weed in our experimental plats.

## TIIIACE不。

## TILIA, I

T. Americana, L. Linden. Basswood. V. M., M. \& G.

Rich woods. Gilmer: at Dekalb P. O. Randolph: on Point Mountain. Grant: near Bayard. Monongalia: near Morgantown, Uffington and Little Falls. Mason: near Point Pleasant. McDowell: near Elkhorn.
T. heterophylla, Vent. White Basswood. "Lin."

Deep woods. Jefferson : near Charlestown, near Flowing Spring Mill. Fayette: near Nuttallburg-L. W. N.

## LINEX.

## LINUM, L.

L. Virginianum, L. Wild Flax.

Open woods, borders and roadsides. Wood, Wirt, Calhoun, Gilmer, Lewis and Upshur. Randolph : along Tygart's Valley River. Webster and Nicholas counties. Kanawha: near Peabody; near Coalburgh-James. Jackson, Monongalia, and Preston. Fayette: near Gauley Bridge; near Kanawha Falls-James; near Nuttallburgh-L. W. N. Kanawha: near Charleston-James.
L. striatum, Walt.

Damp places. Webster: in Upper and Long Glacles. Preston: in glades near Terra Alta and Reedsville. Fayette: near Nuttallburg, in sphagnous bog-L. W. N. Monongalia: at Camp Eden.

L USItatisstmuli, L. Flax.
An uncommon adrentive. Fayette: along the C. \& O. R. R., near Nuttallburg-L. W. N.

## GERIANIACAE. <br> GERANIUM, L.

G. maculatum, L. Wild Geranium. L. W. N., V, M., M. \& (i. Open woods and clearings, frequent throughout the State. A small form with leaves round in outline and from 1-2 in. in diameter at Blucfield, Merecer county.
G. Robertianum, L. Herb Robert.

Rocks of cool, sharled ravines, rare. Marion: near Fairmont. Gilmer: near Glenville-V. M.
G. Carolinianum, L. Cranesbill.

Ficlds, meadows and waste places. Nercer: near Ingleside. Fayette: near Nuttallburg-L. W. N. Kanawha: near Charteston-Barnes. Monongalia: on the University ('ampus; and frequent throughout the State.

## FLOEREEA, Willd.

F. proserpinacoides, Willd. False Mermaid.

Wet places. Ohin: near Whecling-M. \& G. Preston: glades near Terra Alta.

## OXALIS, L.

O. Acetosella, L. Wood Sorrel.

Decp, rich, mountain woods. Randolph: on Point Mountain; Cheat Mountain near Cheat Brilge, where this species grows in such profusion as to actually carpet the Spruce forests. Grant: near Bayard. Tucker: near Davis; and Land of Canaan. Gilmer : new Glenville-V. II.
0. violacea, I.

Rich, cool woods. Randolph: on Point Mountain. Monongalia: up Falling Run; at Uffington and Little Falls. Marion: near Beechwoods; Opekiska and Catawba. Ciimer: near Glenville-V. M. Fayette: near Nuttallburg, rare-L. W. N. Harly: near Moorefield-C. Mercer: ncar Beaver Spring.
O. corniculata, var. stricta, (L.) Sav. Sheep Sorrel. LL. W. N., Y. M., M. \& Cr.

Fields, cultivated grounds and roadsides. Common throughout the State.
O. recurva, Ell.

Open places. Fayctte: near Nuttallburg, commonI. W. N.

## IMPATIENS, L.

I. aurea, Muhl. Pale Touch-me-not. I. pultintu, Nutt. M. \& Ci. Rich soils near streambets. (Gilmer: mear GlenvilleV. M. Kanawha: near Charlestom. Eayctte: ncar Nuttall-burg-L. W. N. ; and common throughout the state. $\Lambda$ lso common in the deup, primitive forests along spring runs. Randolph: on Rich and Cheat Mountains. (irant: near Bayard. Tucker: along the Blackwater Fork of Cheat. Hardy: near Moorefield-G.
I. biffora, Walt. Spotted Touch-me-nnt. I. fuler Nutt. L. W. N., M. \& G.

Shady, moist places, more common than the preceding species and generally seeking lower altitudes.

## RUTACE

## XANTHOXYLUM, L.

X. Americamum, Mill. Prickly Ash. Toothache-tree.

Rocky woods, becoming rare. Jefferson: near Flowing Spring. Monongalia: Decker's Creek. Taylor: along Cheat River.

## RUTA, L.

R. GRAVEOLENS, L. Rue.

Escaped from gardens. Randolph: on Point Mountain along the road abont half way to the summit.

## PTELEA, L.

P. trifoliata, L. Wafer Ash. Hop-tree.

River banks. Jefferson: near Harper's Ferry - M. \& G. Hancock: along Oak Run. Brooke: on Short Creek. Summers: near Hinton, on banks of New River, common.

## SIMARUBERE.

## ATLANTHUS, Desf.

A. Glandulosus, Desf. Tree of Heaven. M. \& G.

Naturalized from China. The seeding-in of this cultivated species is so profuse in the following localities as to render it, a great nuisance. Monongalia: near Morgantorn. Gilmer: De Kalb P. O. Lewis: near ITeston. Kanawha: Pocotaligo. Jackson: near Sandyville. Marion: Fairmont. Gilmer: near Glenville-V. M. Jefferson: near Harper's Ferry, and Charlestown.

## ILICINE $\mathbb{E}$.

## ILEX, L.

I. opaca, Ait. American Holly.

Moist woodlands. Marion : near Nuzums. Randolyh : near Rich Mountains and Laurel Hills. Kanawha: near Charleston-Barnes. Fayette: near Hawk's Nest, large trees 8-12 inches in diameter-Porter; Nuttallburg, in most woods common-L. W. N. McDowell : near Elkhorn.
I. monticola, Gray.

Damp woods. Ranclolph: near sumit of Point Mountain; Rich Mountain, near Lone Sugar Knob; Cheat Mountain, near "The Battle Field." Kanawha: near CharlestonJames.
I. mollis, Gray.

Deep woods. Fayette: near Nuttallburg-L. W. N.
I. verticillata, (L.), Gray. Black Alder. Winterberry. Frequient in swampy places, throughout the central and northern counties. Fayette: near Nuttallburg-L. W. N.

## CELASTRINE

## EUONYMIUS, L.

E. atropurpureus, Jacq. Burning Bush. MI. it G. Margins of woods and thickets. Jackson: near Sandyville. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg, rare-L. W. N.
E. Americanus, L. Strawberry Bush.

Rocky, wooled river banks. Fayette: along the Great Kanawha River, below Gauley Bridge; near Nuttallburg, common-L. W. N.

## CELASTRUS, L.

C. scandens, L, Climbing Bitter-sweet. Wax-work. M. \&G. Thickets, fence rows and along streams, frequent. Wood: near Limestone Ridge. Monongalia and Marion: along the Monongahela River. Fayette: near NuttallhurgL. W. N.

## 

## RHAMNUS, L.

R. Caroliniana. Walt.
Mc.Dowell: along Tug Fork of the Big Sandy river near Elkhorn; at Welch, along the same stream.

## CEANOTHUS, L.

C. Americanus, L. New Jersey Tèa.
M. \& C

Dry, open woods. Üpshur: Summit on Staunton like. Jackson: Sandyville. Gilmer: Glenville-V. M. Fayette: near Nuttallburg-L. W. N. Hardy: near Moorefield.

## AIVPELIDE ※.

## VITIS, $\mathbf{L}$.

V. Labrusca, L. Northern Fox-grape.

Damp,rich thickets. Randolph: near Valley Head. Gilmer: near Glenville-V. M. Summers: near Hinton.

> V. aestivalis, Michx. Summer Grape. Thickets. Wirt: along Straight Creek. Randolph : on Point Mountain. Fayette: near Nuttallburg, commonL. W. N. Summers : near Hinton.
V. cordifolia, Michx. Frost Grape.
M. \& G.

Thickets and banks of streams. Wirt: along Straight Creek. Randolp,1: Valley Head; Point Mountain Road. Fayette: near Nuttallburg, common-L. W. N. Summers: near Hinton. Kanawha: near Charleston.
V. riparia, Michx.

Banks of streams. Randolph: near Valley Head; Point Mountain Road. Summers : near Hinton, defferson : Shenandoah Jc.
V. rupestris, Scheele. Sand Grape. Sugar Grape.

Rocky banks of New river in Fayette near Nuttallburg, plentiful-L. W. N.
V. rotundifolia, Michx. Muscadine. Southern Fox Grape.

Rich river banks. Randolph: near Valley Head. Fayette: near Nuttallburg, rare, on mountain side climbing over trees-L. W. N. Summers: near Hinton.
V. quinquefolia (L.), Lam. Virginia Creeper. American Ivy. (Ampelopsis quinquefolia, Michx.) M. \& (i. Woods and thickets. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg-L.W. N. ; and common throughout the State.

## CISSUS, L.

C. Ampelopsis, Pers.
(Vitis indlivisa, Willd.)
River banks. Ohio: near Wheeling—M. \& G. Summers: neai Hinton.

## SAPINDACE $\not$.

## ※SCULUS, L.

Ae. glabra, Willd. Ohio or Fetid Buckeyc.
M. \& G.

Low lands near streams. Wirt: along Straight Creek. Gilmer: near Glenville-Prof. Brown. Along the Ohio river, common. Monongalia: near Uffington.

Ae. octandra, Marsh. Sweet Buckeye.
Ae. flava, Ait.
Rich mountain woods. Webster: Buffalo Bull Mountains, alt. 2,100 ft. Gilmer: near Glenville-V. Mr. Summers: near Hinton. Kanawha: near Charleston and Handley. Marion: near Worthington.

Var. purpurascens, Gray.
Woodlands. Fayette: near Nuttallburg-L. W. N.
Ae. Pavia, L.
Rich lands along streans. Mc.Dowell: along Tug Fork near Elkhorn.

## ACER, L.

A. Pennsylvanicum, L. Striped Maple. M. \& G.

Rich, cool woods. Randolph: on Point Mountain; Staunton Pike on Cheat Mountain. Webster: on Bulfalo Bull Mountain. Grant: near Bayard. Tucker: on Blackwater Fork of Cheat. Faycte: near Nuttallburg-L. W. N. and elsewhere in the mountains. McDowell : near Elkhorn.

[^0]A saccharum, Marsh. Suggar Maple. (A. sarchurinum, Wang., not L.) V. M.,.L. W. N., M. \& G. Plentiful throughout the State, especially, however, in the central counties. Randolph: Summit Point Mountain, alt. 3,700 ft. Webster: Buffalo Bull Range, alt. 27-3,600 ft.

Var. nigrum, (Michx. f.), Britt. Black Sugar Maple. V. M. L. W. N.

With the preceding, almost as plentiful.
A. saccharinum, L. White or Silver Maple. (A. dasycarpum, Ehrh.) M. \& G.
Banks of Little Kanawha: Gauley River: Great Kanawha, and Ohio. Fayette : near Nuttallburg-L. W. N. ; and elsewhere frequent.
A. rubrum, L. Red or Swamp Maple. G., L. W. N., M. \& G.

Common throughout the State, where it grows upon the hills and in the mountains, as well as in low places.

## NEGUNDO, Moench.

N. aceroides, Moench. Box Elder, Ash-leaved Maple. M. \& G.

Common near rivers throughout the northern and middle counties. Lewis: along Leading Creek. Gilmer: near Glenville-V. M. Summers: near Hinton. Berkeley: near Martinsburg. Hardy: near Moorefield-G.

## STAPHYLEA, I.

S. trifolia, L. Bladder-nut. M. \& G.

Rocky woods, thickets and opens. Wirt: near Elizabeth. Monongalia: near Morgantown and Stumptown. Gilmer : near Glenville. Fayette : near Nuttallburg-L. W. N.

## ANACARDIACER.

## RHUS, L.

R. typhina, L. Staghorn Sumach.
M. \& G.

Dry hillsides. Gilmer: DeKalb Postoffice ; near Glen-ville-V. M. Monongalia $\vdots$ near Stewartown. Summers: near Hinton. Fayette: near Nuttallburg-L. W. N.

During the season of 1890 to 1891 hundreds of plants of this species were noted in Monongalia county to have the inflorescence reverted to leaves, making a strikingly beautiful proliferation when young. This effect, according to Dr. Britton, formed the type of the Limnæan species, Datisca hirta (L. Sp. Pl. 1037.) collected by Kalm near Philadelphia, Pa.
R. glabra, L. Smooth Sumach.
M. \& $G$.

Frequent or very common in all parts of the State, in rocky or barren soils. Randolph: Point Mountain, alt. 2200 ft. ; Cheat Mountains, alt. 27-3600 ft. Cabell: near Bar-hoursville-James. Summers: near Hinton. Fayette : near Nuttallburg, not common-L. W. N. Hardy: near Moore-field-C. C .

R copallina, L. Dwarf Sumach. M. \& G.

Dry fields and rocky places. Weod: near Lockhart's Run, plentiful. Webster: Buffalo Bull Mountains, alt. 2575 ft: Randolph: Cheat Mountains, alt. 3200 ft . Monongalia: near Ice's Ferry. Fayette: near Nuttallburg, alt. 2000 ft ., common-L. W. N.; and frequent throughout the State. Mercer: Beaver Springs and Ingleside.
R. venenata, L. Poison Sumach. Poison Elder.

Swampy places. Randolph: Stalnaker Run. Preston : near-Terra Alta, infrequent.
R. radicans, L.

Poison Vine. Poison Iry. Including R. toxicodendron, L. M. \& G.

Thickets and low grounds, very common throughout the State. Monongalia: abundant everywhere in the neighborhoorl of streams. Webster: Buffalo Bull Mountains, alt. 2100 ft. Kanawha: Pocotaligo. Gilmer: near Glenville-- V. M. Fayette: near Nuttallburg-L. W. N. Summers: near Hinton. Mason : near Point Pleasant. Mercer: Princeton, Ingleside and Wills.

R Canadensis, Marsh. Fragrant Sumach. (R. aromatica, Ait.) Dry or stony soils. Brooke: roadside between Wellsburgh and Bethany College-M. \& G. Hardy: near Moore-ficld-G.

## LEGUIMINOSAR.

## BAPTISIA, Vent.

B. tinctoria (L.), R. Br. Wild Indigo. "Shoo Fly." M. \& (t. Sandy opens. Randolph: along Middle Fork; along Tygart's Valley River; Point and Rich Mountains. Webster: beyond Addison. Nicholas: hetween long and Collett's Glades. Gilmer: near Glenville-V. M. Kanawha: near Coalburg-James. Fayette: near Nuttallburg-L. W. N. Preston: near Terra Alta.
B. villosa, Ell.

Rocky woods. Mercer: near Ingleside,
B. australis, R. Br. Blue False Indigo.

River shores. Ohio: along the Ohio near WheelingM. \& G. Along New river. Fayetto: near Nuttallburg, com-mon-L. W. N. Summers: near Hinton, abundant. Mercer: Beaver Spr.

## LUPINUS, L.

L. perennis, L. Lupine.

Sandy soils. Monongalia : near mouth of Cheat River.

## MEDICAGO, L

IN. sativa, L. Lucerne.
Dry Places. Monongalia: in cinders of railroad near Morgantown; where it has persisted for several years.
M. lupulina, L. Black Medic.

Dry places. Marion: near Catawba-- K. D. Walker. Monongalia: near Ufirington.

## MELILOTUS, Juss.

M. officinalis (L.), Lam. Yellow Melilot.

Ohio: near Wheeling-M. \& G.
IM. ALbA, L. White Melilot. Sweet Clover. Bokhara Clover. Roadsides and ditches. Jackson: near Sandyville. Wood: near Parkersburg. Monongalia: near Morgantown. Berkeley : near Martinsburg. Jefferson: near Summit Point, - and Shenandoah Junction. Mason: near Pt. Pleasant. Mineral : near Keyser. Hardy: near Moorefield.

## TRIEOLIUM, L.

> T. Arvense, L. Rabbit-foot Clover. M. \& G. Established in many places along roadsides and in old fields. Kanawha: near Pocotaligo. Jackson: along C. \& P. Pike. Mineral: near Keyser-W. Cabell: near Barbours-ville-James. Jefferson: near Charlestown. Hampshire: near Romney.
> T. pratense, L. Red Clover. L. W. N., MI. \& G. A common escape to fields, roadsides, and open woods ; even in the higher Alleghenies.
T. Repens, L. White Clover. $\begin{aligned} & \text { Lields, open woods, and waste places; common }\end{aligned}$ throughout the State.
T. HYbridum, L. Alsike Clover.

Becoming frequent in fields and meadows. Monongalia: on the University Campus.
T. agrarium, L. Yellow Clover. M. is G.

Sandy hills and roadsides. Upshur: near Buckhannon; summit on Staunton Pike. Randolph: Cheat Mountain Battlefield. Cabell: near Huntington James. Hampshire: near Romney.
T. procumbens, L. Low Yellow Clover. M. \& G. Sandy fields, and roadsides. -Kanawha: near Charles-ton-Barnes. Jackson: plentiful in ficlds and along roads. Fayette: near Nuttallburg-L. W. N.

## TEPHROSIA, Pers.

T. Virginiana, (L.), Pers. Goat's Rue.

Dry sandy soils. Monongalia: near Morgantown. Gilmer: near Glenville-V. M.

## ROBINIA, L.

R. Pseud-Acacia, L. Yellow Locust. M. \& G., V.M., L. W.N. Common throughont the State, even in the higher mountains.

Dr. Asa Gray, in his account of a "Botanical Excursion to the mountains of North Carolina," says: "On the rocky banks of the Potomac below Harper's Ferry, we saw for the first time the common Locust tree (Robinia Psendacacia) decidedly indigenous. It probably extends to the southenn confines of Pennsylvania; and from this point south, it is everywhere abundant, but we did not meet with it east of the Blue Ridge." The Blue Ridge forms our castern boundary line between Jefferson county and the State of Virginia. Our State is therefore the castern extension of this species, though it extends farther north into Pennsylvania.

> R hispida, L. Bristly or Rose Acacia. M. \& G. Rich soils. Monongalia: near Morgantown; near Cheat River. Preston: in Laurel Hills. Summers: near Hinton.

## ASTRAGALUS, Tourn.

A. Carolinianus, L. (A. Canudensis, L.) M. \& G.

River banks. Monongalia: near Camp Eden. Preston: along Cheat River. Webster: Long Glade. Fayette: near Hawk's Nest-James; near Nuttallburg-L. W. N. Summers: near Hinton.

Specimens found by Mr. Nuttall in his locality resemble so completely Linnaeus' description of $\Lambda$. Carolinianuswhich, however, is not sufficiently different from his $\Lambda$. Canadensis published later, to consider these as two sijeciesthe former must, therefore, take the precedence and stand for the species.
A.

An odd species widely different from any known eastern form, which cannot be named on account of lack of fruit on the specimens collected, and our unaccountable inability to find any on the plants later in the season.

Hardy: near Moorefield-A. D. Hopkins.

## STYLOSANTHES, Swartz.

S. biflora (L.), B. S. P. Pencil Flower (S. elutior, Siv.) M. \& G. Dry, open woods. Wirt: near Burning Springs. Upshur: summit on Staunton Pike. Summers: near Hinton. Fiyette: near Nuttallburg, rocky banks of New River-L. W. N. Monongalia: near Camp Eden,
S. hamata (L.), Britt.
(S. procumbens, Siv.)

Shores of New River. Summers: near Hinton.
First report of this species north of Tennessee.

## DESMODIUM, Desf.

D. nudifforum, (L.), DC. Tick Tree-foil.
M. \& G. Rich woons, common. Wood: near Leachtown. Randolph: on Point Mountain. Webster: Buffalo Bull Mountain. Gilmer: ncar Glenville-Prof. Brown. Fayette : near Nuttallburg-L. W. N. Summers: near Hinton.
D. grandiflorum, (Walt.), DC. D. acuminatum, D. C. Rich woods. Mononongalia: Marion: Preston: Wetzel: Mineral: Jefterson: Berkeley and Calhoun counties. Fayette: near Kanawha Falls-James; near NuttallburgL. W. N. Summers : near Hinton. Kanawha: near Charleston ; and frequent throughout the State.
D. rotundifolium, (Michx.), DC. "Hive Vine."

Dry, rocky woods. Monongalia: near Morgantown. Lewis: along Leading Creek. Upshur: near Lawrence. Fayette: near Nuttallburg, alt. 1500 ft.-L. W. N.
D. ochroleuca, M. A. Curtiss.
M. \& G.

Mineral: along Knobby Mountains. Jefferson: near Millville.
D. canescens (L.), DC.

Open woods and clearings. Wood: near Lockhart's Run. Monongalia: campus, Morgantown. Summers: Riffe; Wolf Creek. An abundant weed. Fayette: near Nuttall-burg-L. W. N. Monroe: near Alderson ; the worst weed in some fields. Mason: near Point Pleasant.
D. cuspidatum. (Muhl.), Hook.

Thickets. Monongalia: along Decker's Creek; near the mouth of Cheat River. Marion: near Little Falls. Wood: near Kanawha Station. Fayette: near Nuttallhurg -L. W. N. Summers: near Hinton.
D. Dillenii, Darl.

Open woodlands. Monongalia, Wood, Marion, Wirt, Upshur, Lewis, Jefferson, Berkeley, Grant and Preston counties. Monroe: near Alderson.
D. paniculatum, (Nutt.), DC.

Copses. Wood, Wirt, Calhoun and Gilmer, along the Little Kanawha River. Monongalia and Marion : along the Monongahela River. Fayette: ncar Nuttallburg-L. W. N. Summers: near Hinton.
D. Canadense, (L.), DC
M. \& G .

Dry, but rich woodlands. Monongalia : at The Flats. Marion: near Opekiska. Wood: near Kanawha Station. Mason: Point Pleasant.
D. rigidum, (Ell.); DC.

Dry hillsides. Monongalia: near Morgantown; on Dorsey's Knob. Mineral : along Knobby Mts. Marion : opposite Montana.
D. ciliare, (Muhl.), DC.

Dry hillsides. Monongalia: Cheat View, Little Falls Becehwoods. Marion: near Houghtown. Lewis: near Weston. Upshur: near Buckhannon.
D. Marilandicum, (L.), Boott.

Copses. Grant: near Bayard. Mincral : near Keyser. Berkeley : North Mountain. Morgan : near Hancock. Jefferson: Shenahdoah Je. Summers: near Hinton.
D. lineatum, (Michx.), DC.

Dry soils. Jefferson : near Shenandale Springs. Gilmer : near Glenville-V. M.

## LESPEDEZA, Michx,

L. repens, (L.), Bart. Bush Clover. (L. procumbens, Michx. Dry, samly soils. Monongalia: hills near The Flats; banks of the Monongahela below Dille's. Wood: near Kanawha Station. Kanawha: Charleston--James. Summers: near Hinton.
L. reticulata, (Muhl.), Pers.

River banks. Fayete: near Nuttallburg, along Now River-L. W. N.
L. violacea, (L.), Pers.

Dry copses. Monongalia: near Morgantown. Wood: near Parkersburg. Wirt: near Burning Springs. Fayette: near Nuttallburg-L. W. N. Summers: near Hinton.
L. Virginica, (L.), Britt.
(L. sessiliffora, Michx.)

River shores. Summers: near Hinton, along New River.
L. Stuvei, Nutt.

Mountain sides. Fayette: near Nuttallburg-L. IV. N.

Trer: intermedia, Watson.
River banks. Fayette: near Nuttallburg, along New River, plentiful-L. W. 'N.
L. polystachya, Michx.

Dry opens. Fayette: near Nuttallburg, alt. 2000 ft . L. W. N.
L. capitata, Michx.

Dry sandy soils. Ohio River banks, frequent. Monongalia: near. Mnrgantown. Marion: near Catawba, and Houghtown.
L. striata, (Thumb.), Hook. \& Arm. Japanese Clover.

Dry, red soils. Spreading profusely along the ('. di O. R. R. in Kanawha, Putnam and Cabell counties.

## VICIA, $L$.

V. Caroliniana, Wralt. Carolina Vetch or Tare.

River banks and edges of glades. Webster: Welsh Clade; island in Long Glade. Wood : shores of Little Kanawha River. Gilmer: near Glenville-V. M. Faycte: near Nuttallburg-L. W. N. Monongalia: near Cassville.

## LATHYRUS, L.

L. venosus, Muhl.

Shady banks. Nineral: banks of the Potomac near Keyser. Fayette: near Nuttallburg, a form 10-15 Howered, with winged stem and stipules 3-15 lines long-L. W. N.

## AIMPHICARP ※A, Ell.

A. comosa (L.), Ridd. A. monoica, Ell. Rich, damp thickets. Monongalia and Marion : along the Monongahela River. Fayette: near Nuttallburg-L. W. N.

## APIOS, Moench.

A. tuberosa, Moeneh. Ground Nut.

Low Grounds along streams. Frequent throughout the State. Fayette: near Nuttallburg, not common-L. W. N.

## PHASEOLUS, L.

P. polystachus, (L.), B. S. P. Wild Kidney Bean. P. perennis, Walt.
Copses. Wood: near Kanawha Station. Monongalia: near Morgantown. Mason : near Point Pleasant.
P. helvolus, L.

Strophostyles angulosa, Ell.
Sandy river banks. Mason: banks of the Ohio near Point Pleasant. Fayette: near Nuttallburg, with the inner surface of the petals pink-L. W. N. -

## GLEDITSCHIA, L.

G. triacanthos, L. Honey or Black Locust. M. \& G.

Rich woods. Monongalia : near Morgantown. Wirt: on Nigh-Cut Hill. Randolph: Rich Mts.; Point Mt., alt. 23-3,700 ft. Gilmer: near Glenville. Hardy: near Moorefield.

## CASSIA, L.

C Marilandica. L. Wild Senna.
M. \& G. Sandy alluvium. Fayette: near Nuttallburg-L. W. N.; near Ganley Bridge. Gilmer: near Glenville-Prof. Brown. Kanawha: near Pocotaligo. Jackson: near Sandyrille. Jefferson: near Harpers Ferry. Mason: near Point Pleasant. Ifarrison: near Shinnston. Summers: near Hinton. Monongalia: near Morgantown. Hardy: near Moorefield G.
C. Chamæchrista, L. Partridge Pca.
M. \& G. Sandy fields. Monongalia: near the mouth of Cheat River. Marion: near Opekiska. Fayette: near Nuttallburg L. W. N.
C. nictitans, L. Wild Sensitive Plant. M. \& C.

Sandy places. Monongalia: along the Monongaliela River. Marion: near Clements. Fayette: near Nuttall-burg-L. W. N. Mason: near Point Pleasant. Summers: near Hinton. Hardy : near Moorefield-G.

## CERCIS, L.

C. Canadensis, L. Red-bud. Juclas' Tree. M. \& G.

Espectally common on hillsides along the Great Kanawha River in Putnum and Mason counties. Monongalia: along Cheat River; and the Monongahela. Wirt: along Little Kanawha River. Gilmer: near Glenville-V. MI. Fayette : near Nuttallburg-L. W. N. Summers: near Hinton.

## GYMNOCLADUS, Lam.

G. dioicus, (L.), Koch. Kentucky Coffee-tree. G. Canadensis, Lam.

> M. \& G.

Rich woods, infrequent. Randolph: Point Mountain, beyond Valley Bend. Webster: Buffalo Bull Mountain, along ridge.

## ROSACE 平.

## PRUNUS, L.

P Americana, Marsh. Wild Yellow or Red Plum. M. \&. G River banks and woodlands. Monongalia: near Morgantown. Marion : near Opekiska. Tyler: near Long Reach -Col. Johnson. Wood: near Lockhart's Run. Gilmer: near Glenville-V. M.
P. Chicasa, Michx.

Thickets. Monongalia: Permian formations near Cassville. Tyler: near Long Reach.
P. Pennsylvanica, L. f. Wild Red Cherry. V. M., M. \& G.

Rocky woods. Very common throughout eastern portion of the State.
P. Virginiana, L. Choke Cherry.
V. M., M. \& G.

Moist, shady places, common.
P. serotina, Ehrh. Wild Black Cherry. (i., L. W. N., V. M., M. \&G. Common throughout the State, where it often forms extensive and rery valuable forests. This is especially true of the tree in the central eastern seetion.

## PHYSOCARPA, Raf.

P. opulifolia (L), Raf. Nine-bark.

Along streams, common. Monongalia : along the Monongahela river. Webster: Upper (ilade. Fayette: nèar Nuttallburg-L. W. N. Harly: near Moorefield.

## SPIRAEA, L.

S. betulaefolia, Pall. Birch-leaved Meadow-swect.

Rich mountain woods. Wehster: near Upper Glade. Hady. near Monrefich--(i.
S. Virginiana, Britt. West. Virginia Mealow-rweet.

Discovered 1 s90 along the Monongahela river near Morgantown. The following description is taken from Prof. Britton's account of the plant in "Bull. Torrey Club," Dec. 1890 :
"A glabrous shrul, the branches forming long wands, erect or rechining, $1-4 \mathrm{ft}$. long. Leaves oblong or slightly oblanceolate, thin, obtuse or short-pointed at the ajex, rounded or cuncate at the base, $1 \frac{1}{2}$ to 2 in . long. $5-\mathrm{S}$ lines wide, green ahove, pale beneath, entire or with a few low semations in the upper half; petioles 2 lince long; pedicels and peduncles pale and glancous; flowers abont 2 -lines hroad, in terminal compound corvmbs $1-3$ in. across; calyx tecth 5 , triangular, blunt, about the length of the short-campanalate tube, distinetly glateols: peetals is, white, wate-orbicular. obtuse; stamens 15-20, 1ersistent ; strles $\overline{0}$-f follicles in the specimens examinerd, o-6, apparently sterile, included in the pernistent cally.."
"On damp recks along the Monengahela river, Morgantown, West Virginia, collected by Dr. C. F. Millspaugh in Hower, fune 20 th, 1890 , and in apparently imperfect fruit late in Soptember. Collected also hy Mr. (i. R. Vasey in the mountams of North Carolina, 187s."
"Spiraca betulecfolin, Pall. :met S. coritmbere, Raf., have much longer follickes exerted berond the ealy, hroader, thicker, and dentate leaves, and are eliflerent in halhit. Ratfinesgue publisherl a mumber of species in his New Flora, but mone of them ean aphly to this une.
S. tomentosa, L. Hardhack. Stecple-luash. MI. di (i. Low grounds. Webeter: Welch (ilate. Wood: near Lockhart's Run.
S. rubra, (Mill.) Britt. Queen of the Prairie. S. Lobula, Jacer. Meadows. Monongalia: near Morgantown. Preston: near Terra Alta.
S. Aruncus, L. Goat's Beard.

Rieh ground and along streams. Monongalia: near Morgantown, Uffington, Little Falls, Day Creek and Granville along the Monongahela. Randolph: along Mirldle Fork, on Rieh Mountains, alt. 2.125 ft . Gilmer: near Glen-ville-V. M.

## GILLENIA, Moench.

G. trifoliata, (L.), Moench. Bowman's Root. Indian Physic. M. \& G.

Rich woods, frequent. Webster: Welch and Long Glades. Monongalia: along the Monongahela River. Little Falls to Beech Woods. Mineral: near Keyser - W. Summers : near Hinton. Hardy : near Moorefield-G. Mercer : near Ingleside.
G. stipulacea, (Pursh), Nutt. American ipecac.

Borders of woods. Wood: between Kanawha Station and Lockhart's Run.

## RUBUS, $\mathbf{L}$.

R. odoratus, L. Purple-flowering Raspberry. Thimble-berry. M. \& G.

Damp rocky places. Monongalia: near Little Falls. Grant: near Bayard. Randolph : near Crickard P. O. Fayette: near Kanawha Falls-James; near Nuttallburg-L. W. N. Summers: near Hinton. Hardy: near Moorefield-G.

V'u. Columbianus. Columbian Raspberry.
Leaves ample, 5-7-incised, divisions oblong-lanceolate long and taper pointed, sharply and mostly double serrate. Inflorescence smaller and more compact. Fruit smaller than in the species and of a more decided musky taste. Monongalia : cool woods, Tibbs Run.
R. strigosus, Michx. Wild Red Raspberry. M. \& G. Thickets. Fayette: near Nuttallburg, not plentiful -L. W. N. Pocahontas: Spruce Mountain-A. D. Hopkins.
R. occidentalis, L. Black Raspberry. V.M., M. \& G., L. W. N. Frequent throughout the State.
R. villosus, Ait. High Blackberry. L. W. N., V. M., M. \& G. Common everywhere in the State.

Var. humifusus, T. \&. G.
Woods and river banks. Fayette: near Nuttallburg -L. W. N.

Var. frondosus, Torr.
Fayette: near Nuttallburg-L. W. N. Preston: near Tunnellton.

## R. Millspaughi, Britt.

This species was described in "The Bulletin of the Torry Club" for 1891, page 366, as follows:
"Ascending, wand-like, entirely unarmed or with a "very few weak prickles abore, glabrous throughout or the "younger shoots scurfy pubescent. Stems one and one-half "to four meters long; leaves long petioled, perlately 5 -foliate "or some of those on the twigs 3 -foliate ; leaflets thin, oral, "glabrous on both sides, long-acuminate at the apex, mostly "rounded at the base, $12-15 \mathrm{~cm}$. long, about 5 cm . wide, "sharply, but not deeply serrate; stoek of the terminal leaf"let 7-10 cm. long; inflorescence loosely racemose; bracts "linear-lanceolate; acuminate; fruit black, about 10 mm . "long."
"Nearest to R. villosus, but evidently a distinct spccies. Curiously enough there is a leaf of this species glued down on the sheet of R. Canadensis, $L$ in herb Linn., and it appears to have been included in his description of that spe-cies-the specimens furnished by Kalm."

Near the summit of Point Mountain in Randolph county at an altitude of $3,500 \mathrm{ft}$., also along the Gandy in great profusion. Pendleton and Pocahontas : on Little Rich Dountains abundant. The mountaineers claim that it is upon this species that the bears grow fat for their period of hibernation, the fruit being late to ripen and very nutritious.

> R. Canadensis, L. Dewberry. L. W. N., V. M., M. \& G. Abundant on dry hillsides throughont the State.

Iar. roribaccus, Bailey. Leucretia Dewberry.
Dry hillsides. Randolph: near Beverly.
This new varicty of the species is bescribed by Prof. Bailey in the American Garden, November, 1890, as follows: "Plant larger and stronger ; leaflets broad below, usually tri-angular-ovate, doubly serrate with small teeth, and more or less notched and jagged; peduncles longer, straighter and stouter, habituously more numerous and more conspicuously overtopping the leares; flowers very large (some times two inches across) ; sepals uniformly larger, some of them much prolonged and leaf-like and conspicuously lobed (some times becoming an inch long and wide); fruit much larger."
R. hispidus, L. Running Swamp-Blackberry. M. \& G. Glade regions of Preston, Randolph and Webster connties. Fayette: near Nuttallburg-L. W. N.
R. trivalis, Michx. Low Bush-hlackberry.

Sandy soil. Kanawha: near Charleston-James.

## DALIBARDA, L.

D. repens, L.

Deep mountain woods. Grant: near Bayard. Tucker: along Blaekwater Fork of Cheat.

## GEUM, L.

G. Canadense, Jacq.
G. album, Gmel. M. \& G.

Woods and thickets. Calhoun, Wood, Grant, Mineral, and Monongalia counties. Fayette: near Kanawha FallsJames; near Nuttallburg-L. IV. N. Summers: near Hinton.
G. Virginianum, L.

Borders of woods and low grounds. Wood, Wirt, Calhoun, Gilmer, Marion, Lewis, Monongalia, and Jefferson counties.
G. vernum (Raf.), T. \& G.

Moist places. Monongalia: near Morgantown; Little Falls. Marion: near Opekiska.

## WALDSTEINIA, Willd.

W. fragarioides, (Michx.), Tratt. Barren Strawberry.

Wooded hillsides. Grant: near Bayard.

## FRAGARIA, L.

F. Virginiana, Mill. Wild Strawberry. M. \& G.

Moist woodlands and fields, common. Monongalia: near Morgantown-M. H. Brown. Gilmer: near Glenville -V. M. Fayette: near Nuttallburg-L. W. N. Hardy: near Moorefield-G.

> F. vesca, L. Northern Wild Strawberry.
> Shady woods, less common than the last. Kanawha: near Charleston-James. Fayette: near Nuttallburg-L. W. N.
F. Indica, Andr. Indian Strawberry.

Escaped to waste places. Monongalia: near Morgantown. Kanawha: near Charleston-Barnes.

## POTENTILLA, L.

P. Norvegica, L.
M. \& G.

Fichls and wet places. Wood: near Kanawha Station. Monongalia: near Morgantown. Grant: near Bayard. Fayette: near Nuttallburg, rare-L. W. N. Tuckernear Davis.
P. Canadensis, L. Cinguefoil. G., L. W. N., V. M., M. \& G. Dry fields, an abundant weed throughont the State.
$V^{\prime}(t r$. simplex (Michx.), T. \& G.
Dry fields. Ohio: near Wheeling-M. \& (t.

## AGRIMONIA, L.

A, Eupatoria, L.
L. W. N., M. \& G.

Borders of woods, frequent throughout the State.
A. parviflora, Ait.

Woods and glades. Randolph: on Lone Sugar Knob. Preston: near Terra Alta. Webster: Long Glade, Nicholas: Collett's Glade. Tucker: near Davis. Fayette: near Nuttallburg, alt. 2,000 ft.-L. W. N. Summers: near Hinton. Monroe: near Alderson.

## POTERIUIM, L.

P. Canadense (L.), Gray. Burnet.

Rich, moist woods. Randolph: along Cheat river. Tucker: along Blackwater Fork of Cheat. Monongalia: Cheat river near Camp Eden. Preston: Terra Alta.

ROSA, L.

R. Carolina, L. Carolina Rose.
M. \& G.

Damp places. Wood: near Kanawha Station, profuse. Upshur: near Buckhannon. Webster: Long Glade. Randolph: meadows along Tygart's Valley river.
R. humilis, Marsh. Dwarf Wild Rose.

Dry soils. Wood: near Kanawha Station. Monongalia : near Uffington and Beechwoods. Gilmer: near Glen-ville-V. M. Fayette: near Nuttallburg-L. W. N. Summers: near Hintun.

Tor: lucida (Ehrlı.), Best. Larger Wild Rose. (I. hucide, Ehrh.) M. \& G.

Shaded hillsides. Kanawha: near Charleston-James - Barnes. Monongalia: plentiful along Cheat river above Camp Eden. Fayette: Kanawha Falls--James.
R. Rubiginosa, L. Swect-lrier. Elgantine. M. \&

Frequent along roadsides and thickets. Nicholas: along Gauley river. Randolph: Staunton Pike on Cheat Mountains. Summers: neat fintom. Monongalia: near Ice's Ferry.
R. CANINA, L.

Rocky Banks. Fayette: near Nuttallhurg-l. W. N.

## PYRUS, L.

P. coronaria, L. Wild Crab Apple.
M. \& $(\underset{y}{6}$.

Opens and damp places. Monongalia: frequent about Morgantown. Marion: along the Monongahela river. Gilmer: near Glenville-V. M. Fayette: near NuttallburgL. W. N. Mercer: near Beaver Spr.
P. angustifolia, Ait. Narror-leaved Crab.

Glady regions of Preston, Webster and Nicholas counties.
P. arbutifolia (L.), L. f. Choke Berry.

Damp places. Webster: Upper Glade. Preston : near Terra Alta. Nicholas: Collett's Glade. Fayette: near Nuttallburg, alt. $2000 \mathrm{ft} .-\mathrm{L} . \mathrm{W} . \mathrm{N}$.

Var. melanocarpa (Willd:), Hook.
Preston : Reedsville Glade ; Morgans' Glade. Webster : Upper and Welch Glades.
P. Americana, (Marsh.) DC. - Mountain Ash. M. \& G.

Damp mountain woods. Randolph: near Cheat Bridge. Grant: near Bayard. Tucker: near Daris; and along the Blackwater.

## CRATEGUS, L.

C. spathulata, Michx.

Rocky Woods. Mercer: near Bearer Spring, and Wills. McDowell : near Elkhorn.
C. cordata, Ait.

Rocky mountain woods. Mercer: near Beaver Spring, Ada, and Ingleside.
C. OXYacantha, L.

Rirer banks. Fayette: near Nuttallhurg-L. W. N.
C. apiifolia, Michx.

Rocky woods. Mercer: near Ingleside and at Beaver Spring.
C. coccinea, L. Scarlet Thorn.
M. \& G.

Thickets. Calhoun: Lower Leading Creek. Monongalia: near Ice's Ferry. Marion: near Opekiska. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg L. W. N. Upshur: near Buckhannon. Summers: near Hinton. Hardy: near Moorefield-G. Mercer: near Ingleside.
C. mollis (T. \& G.), Sarg.
C. coccinca, var. mollis, T. \& G. Mercer: near Beaver Spr. and Ingleside.
C. tomentosa, L. Black Thorn. M. \& C.

Uplands. Monongalia : ncar Stewartstown and Uffington ; road to Dorsey's Knob. Randolph: near Cheat Bridge. Tucker: along the Blackwater. Wirt: near Elizabeth. Wood: near Lockhart's Run. Summers: near Hinton. McDowell: near Elkhorn.
C. punctata, Jacq.
M. \& G.

Borders and open woods. Monongalia: near Ice's Ferry; Cheat River above Camp Elen. Greenbrier: near White Sulphur Springs. Fayette: near Nuttallburg-L. W. N.
C. Crus-galli, L. Cockspur Thorn.

Thickets. Monongalia: frequent. Marion: near Houghtown. Preston: near Reedsville and Terra Alta. Mineral: near Keyser. Jefferson: near Shenandoah Junction. Upshur: near Buckhamnon. Fayette: near Nuttall-burg-L. W. N. Greenbrier: near White Sulphur Springs. Summers: near Hinton. Hardy: near Moorefield-G. Mercer: near Beaver Springs and Ingleside.
C. flexispina, (Moench.) Sarg. Summer Haw. C. flaca, Ait. Shady river banks. Fayette: banks of New River near Nuttaliburg-L. W. N. Mercer: near Ingleside. McDowell: along Tug Fork, near Welch.

Var. pubescens (Gray).
Sandy woods. Mercer: along stream opposite Wills.
C. unifiora, Moench.
C. pari iflora, Ait.

Sandy woods. Mercer: along streamlet near Ingleside.

## ANELANCHIER, Lindl.

A. Canadensis, (L.), Merlic. Shad Bush. June Berry. L. W. N., V. M., M. \& G., (i. Common gencrally, even in the higher mountains.

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## CALYCANTHE疋。

## BEURERA，Ehret．

（Culycanthus，I．）
B．florida（L．）．Allspice．Sweet－scented Shrub．
Rich woods．Randolph：near Fords；on Staunton Pike，thence frequent over Rich Mountains．Webster and Nicholas：Along Buffalo Bull Ridge．Fayette：along the Gauley river near Gauley Mountains．Summers：near Hin－ ton．

B．laevigatus，（Willd．）
Rich woods．McDowell：back of R．R．water tank near Welsh．

## SAXIFRAGE无．

## ASTILBE，Don．

A．decandra，Don．Goats－beard．
Rich woods．Mercer：near Wills．

## SAXIFRAGA，L．

S．Virginiensis，Michx．Early Saxifrage．L．W．N．，V．M．，M． Exposed moist rocks and opens．General throughout the State．

S．Pennsylvanica，L．Swamp Saxifrage．
Glades．Preston ：Morgan＇s and Terra Alta Glades．
S．micranthifolia（Haw．）．Lettuce Saxifrage．S．erosa，Pursh．
Spring rills in deep woods．Monongalia：near Camp Eden．Grant：near Bayard．Tucker：along the Blackwater．

## THEROFON，Raf．

## T．aconitifolia（Nutt．）．

（Boykinia aconitifolia，Nutt．）
Creek beds．Fayette：near Nuttallburg；plentiful along the beds of creeks at an alt．of 1800 ft ．，does not extend down these beds as far as the shores of New river（alt． 1100 ft．）．Often 3 －celled，sometimes the flowers 6 －parted，few 7 －parted－L．W．N．

## TIARELLA, L.

T. cordifolia, L. False Mitre-wort.

Rich, moist woods. Common throughout the Alleghanies and the foot-hills. Monongalia: near Morgantown. Gilmer: near (ilenvilk-V. M. Fayette: near Nuttallburg - L. II. N. (rrecmbrer: near White sulphur Springs. MeDowell: near Elkhom. Mereer: near Bluestone Jo.

## MITELLA, L.

M. diphylla, L. Mitrewort. Bishopis (ap. L. W. N., V. M., M. \& $G$. Rich, shatly woids. Common throughout the State.

## HEUCHERA, L.

H. villosa, Michx.

Rocky places. Fayette: Kamawha Falls--James; Loup ('reek--James. Nuttallhurg-L. W. N. Kanawha: near Coalburg-James.
H. Amexicana, L. Alum-root.

Rich, damp woods. Monongalia: near Morgantown, and frequent elsewhere. Gilmer: near Glenville-V. M. Farette: near Nuttallburg-L. IV. N. Greenbrier: near White Sulphur Springs. Grant: near Bayard. Tucker: near Davis. Hampshire : near Romncy.
H. Rugelii, Shuttlw.

Shaded cliffs. Fayette: near Nuttallburg, common $--L$ W. N.

> PARNASSIA, L.
P. grandiflora, DC.
P. Caroliniena, Michx.

Wet banks. Fayette: near Kanawha Falls-Sclby.

## HYDRANGEA, L.

H. arborescens, L. Wild Hydrangea. M. it G.

Rich opens. Monongalia : near Morgantown. Marion: Opekiska. Wood: near Kamawha Station. Wirt: near Burning Springs. Gilmer: near Glenville-V. M. Lewis: along Stone Coal Creek. Throughout the above range the flowers were all fertile. Fayette: near Hawk's Nest -James; near Kanawha Falls-James; near NuttallhurgL. W. N.

A form with grass-green marginal radiant flowers, in a deep ravine in Fayette: near Nuttallburg.

## Fir: Kanawhana.

Low straggling bush, leaves small, paler bencath, acuminate, somewhat cordate at the base; cymes very open and branching, marginal radiant flowers many; 1 in. broad, fertile flowers nearly glabrous, smaller than in the speries. Along the Little Kanawha River from Kanawha Station to Glenville.

## RIBES, L.

R. Cynosbati, L. Irickly Gooseberry. MI. \& G.

Deep rocky woods. Randolph: along Cheat River, alt. 3,360 ft. ; Point Mountain, alt. 3,700 ft. ; Rich Mountain, alt. 2,700. Grant: near Bayard. Preston : ncar Terra Alta; and frequent throughout the northern and eastern counties. Hordy: near Moorefield.
R. rotundifolium, Michx. Smooth Gooseberry.

Rich, cool, mountain woods, with the last, frequent.
R. prostratum, L., Her.

Pocahontas: summit of Spruce Knob, alt. 4800 ft .A. D. Hopkins.
R. floridum, L'Her. Wild Black Currant.

Rich woods. Randolph: near Beverly. Grant: near Bayard. Preston : near Terra Alta. Fayette: near Nuttall-burg-L. W. N.

## CRASSULACEA.

## SEDUIM, L.

S. pulchellum, Michx.

Rocky plạces. Jefferson: near Harper's Ferry--Asa Gray.
S. Nevii, Gray.

Dry, rocky places. Greenbrier: near White Sulphur Springs.

Sı ternatum (Haw), Michx. Stone-crop. G., L. W. N., V. M., M. \& G.

On rocks in deep woods and opens. Throughout the State.
S. telephioides, Michx.
M. \& G.

Drier situations. Throughout the northern counties. Jefferson: Harper's Ferry-Asa Gray. Hardy : near Moore-field-G. Hampshire : near Romney.

# S. Telephium, L. Live-for-ever. <br> Along raihroad banks. Jefferson, Morgan and Berkeley counties. 

## PENTHORUM, L.

P. sedoides, L. Ditch Stone-crop. L. W. N., M. \& G.

Open wet places, and ditches. Throughout the State.

## DROSERACE ※.

## DROSERA, L.



## HAMAMELIDEX. <br> HAMAMELIS, L.

H. Virginica, L. Witch-hazel. L. W. N., V. M., M. \& G. Common in damp woods throughout the State.

## LIQUIDAMBAR, L.

L. styraciflua, L. Sweet-gum. Alligator-wood. M. \& G.

Rich woods. The distribution of this species in the State according to my notes of travel is, from east to west, as follows: Beginning near the source of Peter Creek, in Nicholas county, it follows that stream to its junction with the Gauley river, down this to its confluence with the New river to form the Great Kanawha, which latter it follows to the mouth of Elk river, whence it bears northward up Eight Mile creek to the Pocotaligo and its Middle Fork, across to Mill Creek in Jackson, which it follows to the Ohio.

It is also noted in Gilmer: near Glenville-V. M. Fayette: near Kanawha Falls-James; near Nuttallburg-L. W. N. Cabell: near Huntington-Sclby, I have also met with it in Summers: near Hinton; and along the Greenbrier river in that county.

## HALORAGE <br> CALLITRICHE, L.

C. heterophylla, Pursh.

Fayette: near Nuttallburg-L. W. N.

## MELASTOMACE压．

## RHEXIA，L．

R．Virginica，L．Meadow Beauty．
Moist，sandy meadows，and river shores．Monongalia ： near Camp Eden；Little Falls．Wood：near Lockhart＇s Run．Wirt：near Burning Springs．Upshur：near Lorentz． Randolph：along Tygart＇s Valley River．Berkeley：near Martinsburg．Putnam：near Buffilo．

## LYTHRARI承．

CUPH $\mathbb{A} A, \mathrm{R} . \mathrm{Br}$ ．
C．petiolata，（L．），Kochne．＂Tar－weed．＂C．viscosissima，Jacq．
Dry soils，and fields．Monongalia，Marion，Wood， Wirt，Calhoun，Gilmer，Lewis，Upshur and Randolph．Fay－ ette：near Gauley Bridge ；near Nuttallburg－L．W．N．；near Hawk＇s Nest－James．Greenbrier：near White Sulphur Springs．Summers：near Hinton．Monroe：near Alderson． Berkeley：near Martinsburg，and elsewhere．

## ONAGRARIE 出．

## EPILOBIUMI，L．

E．spicatum，Lam．Fire－weed．E．angustifolium，L．M．\＆G．
In new clearings．Mineral：Grant：and Tucker： along the W．Va．Cent．R．R．Randolph ：summit of Point Mountain，alt．3，700 ft．Cheat Mountain，alt．27－3600 ft． Hardy ：near Moorefield－G．

E．coloratum，Muhl．Willow－herb．M．\＆G．
Ditches，and wet rocks．Greenbrier：near White Sul－ phur Springs．Fayette：near Nuttallburg－L．W．N．Ma－ son：near Pt．Pleasant ；and frequent throughout the State．

## LUDWEGIA，L．

L．alternifolia，L．Seed－box．．M．\＆G．
Wet banks．Wood：near Lockhart＇s Run．Monon－ galia：along Cheat River near Camp Eden．Fayette：near Kanawha Falls－James；near Nuttallburg－L．WY．N．

Var．linearifolia，Britt．n．var．
With or near the species．Wood：near Lockhart＇s Run．Fayette：near Nuttallburg－L．W．N．

Described by Prof．Britton in＂Bull．Torrey Club，＂ Dec．，1890，as follows．
"Two or three feet high, divergently branched, the branches ascending. Leaves linear, clongated, 2-4-in. long, 11 -t-lines wide, acute; flowers solitary in the axils of the upper leares or bracts, yellow ; sepals orate-lanceolate acute, narrower than those of L. alternifolia; branches and hoth sides of the leares somewhat pubesent. Petals apparently remaining on the plant longer than those of L. alternifolia, which, as Dr. Millspaugh olserves, commonly fall a way when the plant is shocked."
"Appearing rery distinct from typical L. alternifolia, but presumably lout a variety of it. From the description it may be the Rhexia linearifolia, Poir, in Lam. Encycl. vi. 2, said to come from Carolina."
L. palustris (L.), Ell.

Sandy soil. Fayette : in a Sand bar in New river near Nuttallburg-L. W. N:

## OENOTHERA, L.

Oe. biennis, L. Erening Primrose.
L. W. N., M. \&G. Frequent or common, throughout the State.

Var. grandiflora (Ait.), Lindl.
Frequent. Randolph: Cricard, P. O.; Point Mountain. Wood: near Kanawha Station. Preston: near Tunnellton; near Terra Alta. Greenbrier: near White Sulphur Springs. Hardy : near Moorefield-G.

Oe. pumila, L.
Dry fields, frequent throughout the State, especially in the northern section. Hardy: near Moorefield-G.

Oe. fruticosa, L. Sun-drops. "Wild Bect."
M. \& G. Common "in most soils, and in cultivated fields as a weed. Summers: near Talcott and Lowell. Marion: near Worthington. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg-L. W. N.

Far. linearis (Michx.), Watson.
Damp places. Wood: near Kanawha Station. Wirt: near Elizabeth. Calhoun: near Grantsville. Gilmer: near Glenville-V. M. Upshur: near Buckhannon.

Var. differta. Crowded Sun-drops.
Damp meadows. Wood: near Locklart's Run, the most common form.

Stems 1-2-ft. high, nearly smooth, branching diffusely from erery axil. Flowers profuse, large. Lower leaves
ovate．Capsules narrowly wingerl，very short ；apical inflor－ escence strongly cymose．

GAURA．L．
G．biennis，L．
M．\＆（i．
Dry hanks．Welster：near Taylor．Greenbrier：near White Sulphur Springs．Fayette near Nuttallburg－L．W． N．Harrison：near Lumberport．Berkeley：near Martins－ burg．Hardy：near Moorefield－G．

## CIRC开A，L．

C．Lutetiana，L．Enchanter＇s Nightshade．M．\＆G．
Low grounds，and wet woods．Lewis：up Stone Coal Creek．Gilmer：near Glenville－Prof．Brown．Fayette： near Nuttallburg－L．W．N．

C．alpina，L．
M．\＆G．
Deep，rich woods．Randolph，Grant，Tucker and Pen－ dleton：prevalent in the Alleghanies．Gilmer：near Glen－ ville－V．M．Monongalia：along Cheat river，above Camp Eden．

## PASSIFLORE疋。 PASSIFLORA，L．

P．Iutea，L．Yellow Passion－flower．
Hillsides．Fayette：near Nuttallburg－L．W．N．
P．incarnata，L．Passion－flower．
Dry soil．Gilmer：near Glenville－V．M．

## CUCURBITACE ※．

## CUCURBITA，L．

C．ovifera，L．Gourd．
Escaped to waste grounds．Monongalia：about Mor－ gantown．Jefferson：near Shepherdstown．

## CITRULLUS，L．

C．vulgaris，Schrad．Watermelon．
Eseaped to waste grounds．Mason：banks of the Ohio near Point Pleasant．

## CUCUMIS, L.

C. Melo, L. Musk Mellon.

Escaped to waste grounds. Mason : banks of the Ohio near Point Pleasant. Monongalia : waste grounds, near Morgantorm.

MIICRAMPELIS, Raf.

M. echinata, (Muhl.), Raf.
(Echinocystis lobata, T \& G.)
Escaped from gardens, where it is frequently grown as a vine for fences and rock work ornamentation.

## SICYOS, L.

S. angulatus, L. Star Cucumber.
M. \& G.

Damp places. Monongalia: along Decker's Creek; near Easton. Fayette : near Nuttallburg-L. IV. N.

## CACTACEA <br> OPUNTIA, Mill.

O. vulgaris, L. Prickly Pear.

Open fields and among scrub pines in the Devonian formations of Hardy : near Moorefield, where it is a preralent weed in many places.

> FICOIDEA.
> MOLLUGO, L.

IM. verticillata, L. Carpet-weed.
M. \& G.

Waste and cultivated grounds. Monongalia: hills about Morgantown. Marion : near Fairmont. Fayette: near Nuttallburg, sandy banks of New River-L. W. N.

## UNBELLIFER2.

## HYDROCOTYLE, L:

H. Americana, L. Water Pennywort. M. it Ct. Along streams. Jefferson : near Flowing Spring. Randolph: above Cricard P. O. Grant: near Bayard. Greenbrier: near White Sulphur Springs.

## ERYNGIUM, L.

E. aquaticum, L. Rattle-snake Master. (E. yuccexfolium, Michx.) Swampy places. Webster: at Welsh Cilade.

## DAUCUS, L.

D. Carota, L. Wild Carrot. "Devil's Plagne." G., M. \& G. Fields, meadows, and roadsides. Lewis, Randolph, Monongalia, Marion, Berkcley, Morgan, Mineral, Preston, Grant, and Kanawha counties. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg-I. W. N. Jefferson : near Shenandoah Junction; near Charlestown; and Summit Point. Greenbrier: near Caldwell and White Sulphur Springs. Summers : near Greenbrier Stock Yards, and Hinton. Mason: near Point Pleasant. Mercer: near Ingleside; and reported from every county in the State.

## Forma rosea.

With rose colored flowers, a frequent form in Monongalia: near Morgantown : and along the Kingwood Pike.

## ANGELICA, L.

A. Curtisii, Buckley.

Sandy river banks. Monongalia: near Camp Eden. Preston: near Reedsville. Grant: near Bayard. Greenbrier: near White Sulphur Springs.
A. villosa (Walt.), B. S. P. Hairy Angelica. A. hirsuta, Muhl. Frequent in dry woods and glady meadows. Webster: Long and Welsh Glades. Jackson: near Sandyville. Tucker: near Davis. Fayette: near Nuttallburg-L. W. N. Monongalia: near Camp Eden. Preston: near Terra Alta. Randolph: on Point Mountain, alt. 2540 ft. Hardy : near Moorefield - G.
A. atropurpurea, L. Purplish Angelica. Archangelica atropurpurea, Hoffm. M. \& G.
Low grounds and river banks. Grant: near Bayard. Preston: near Terra Alta. Tucker: near Davis. Fayette: near Kanawha Falls-James.

## TIEDEMANNIA, DC.

T. rigida, (L.), Coult. \& Rose. Cowbane.

Swampy spots. Randolph: along Shaver's Fork of Cheat. Fayette: near Nuttallburg-L. W. N. Preston: near Terra Alta.

## HERACLEUMI, L.

H. lanatum, Michx. Cow Parsnip.

Wet grounds. Lewis: along Leading Creek. Upshur: near Lorenz. Randolph: along Tygart's Valley River. Webster: Welsh Glade.

## PASTINACA, L.

P. sativa, L. Will Parsnip.
M. if t .

Waste grouncls and cultivated fieds. Randolph: Cheat Momntains, alt. 33.50 ft . Jefferson: near Shenandoah Je. (ireentricr: near White sulphur Springs. Mineral: opposite C'umberland. Morgan: near Hancock. Wood: near Kanawha Station. Mason: near Point Pleasant. Hardy: near Moretichl.- (i.

## THASPIUM, L.

T. aureum, (L.), Niutt. Meadow Parsnip. L. W. N., M. \& G. Thickets and meadows. Frequent throughout the State.

I'ar. cordatum, (Walt.), B.S. P. Frr: trifolintum, Groy, in pt. II. \& $G$.

With the species, but probably more frequent. Hardy: near Moorefield-G.
T. barbinode, Nutt.

Rich woods. Mercer: plentiful near Bluestonc Jc.

## LIGUSTICUNE, L.

L. actæfolium, Michx.

Rich soil. Grant: near Bayard, plentiful along the Blackwater Fork of Cheat River.

## PIMPINEIILA, L.

P. integerrima, (Li), Bth. \& Hook.

Rocky hillsides. Lewis: along Stone Coal Creek. Randolph: on Point Mountain.

DEERINGIA, Adans. (1763).
(Cryptotænia, DC. 1829)
D. Canadensis, L. Honew*ort. Cryptotania Cemadensis (L.) DC. M. \& G.

Shady rocks. Monongalia: Roundbottoms and Little Falls. Marion : near Opekiska. Fayettc: near Nuttallburg -L. W. N.

> ZIZIA, Koch.
Z. cordata, Koch,

River banks. Fayette: near Nuttallburg-L. W. N.
Z. aurea, Koch.

Damp places. Momongalia: The Flats, and along the Monongahela. Marion: neaŕ Opekiska. Fayette: near'Nut-tallburg-L. W. N.
z Bebbii, C. \& R.
Z. ©threa, var. Bebluii, C. \& R.

Woodlands. Fayctte: near Nuttallhurg--L. W. N.
Of speecimens gatherel in Mason, near Pt. Pleasant, Prof. Coulter says: "Flowers too white, and altogether it does not quite fit, and is indcterminable on account of the immature fruit."

## CICUTA. I.

C. maculata, L. Spotted Corv-bane. Beaver Poison.

Swampy spots, and wet meadows. Tiandolph: along Tygart's Valley River plentiful. Fayette: along Loup Creek-James; near Nuttallburg-L. W. N. Putnam : near Scott's Depot-James. Gilmer: Glenville-Prof. Brown ; near DeKalb P. O. Morgan: near Cacapon. Monongalia : near Ice's Ferry. Mason : near Point Pleasant.
C. bulbifera, L.

Wet places. Mason : near Pt. Pleasant.

## CHEROPHYLLUM, 工.

C. procumbens, (L.) Crantz. *

Ohio: Elm Grove, near Wheeling-M. \& G.

## OSMORHIZA, Raf.

O. Claytoni (Michx.), B. S. P. O. brevistylis, D C. M. \& G.

Rich woods. Wirt: above Elizabeth. Gilmer: near Glenville-V. M.; Prof. Brown. Monongalia: opposite Roundbottoms. Grant: near Bayard. Fayette : near Nuttall-burg-L. W. N.
O. longistylis (Torr.), DC.
M. \& G.

Rich Woods. Monongalia: near Morgantown. Marion: near Fairmont. Tucker: near Davis. Wirt: abore Elizabeth.

## ERIGEINIA, Nutt.

E. bulbosa, Nutt. Harbinger of Spring. M. \& G.

Rich open woods. Monongalia: opposite Granville, plentiful. Fayette: near Nuttallburg-L. W. N.

## SANIC゚ULA, L.

S. Marylandica, I. Black Snake-root. M. \& G. Rich woods. Monongalia: near Morgantown. Preston : near Terza Alta. Fayette: near Nuttallburg-L. W. N.
S. Canadensis, L.

Rich soil. Monongalia: near Little Falls. Marion: near Opekiski. Fayette: near Nuttallburg-L. W. N.

## ARALIACERE.

## ARALIA, L.

A. spinosa, L. Angelica Tree. Hercules' Club. M. \& G. Rich mountain woods. Webster: Buffalo Bull Mt. alt. 2595 ft., plentiful. Preston: near Rowlesburg. Summers: along the Greenbrier River; near Hinton. Fayette: near Nuttallburg-L. W. N. ; at Gauley Bridge, abundant. Monongalia: near Morgantown.
A. racemosa, L. Spikenard.
M. \& G.

Deep, cold woods, frequent in the Alleghanies. Randolph: Cheat Mountains, alt. 3350 ft ; Point Mountain, alt. 3560 ft . Hampshire : Ice Mountain. Tucker: near Falls of Blackwater. Gilmer: near Glenville-V. M. Greenbrier: near White Sulphur Springs. Fayette: near NuttallburgL. W. N. Summers: near Hinton.
A. nudicaulis, L. Wild Sarsaparilla. M. \& G.

Rich woods, frequent. Monongalia: the Flats, Rich Woods, and along the Monongahela. Marion: near. Opekiska. Randoliph: on Point Mountain. Grant: near Bay. ard.
A. quinquefolia (乇.), Dec. \& Pl. Ginseng. "Sang." M. \& G. Rich, deep woods. Wirt: near Burning Springs. Jackson: near Ripley. Gilmer: near Glenville- $T$. II. Grant: near Bayard. Randolph: Rich, Cheat and Point Mountains. (One store at Crickard P. O. buys from this neighborhood $\$ 1,500$ worth annually of the mountaineers.) Webster: Buffalo Bull range. Fayette: near NuttallburgL. W. N. Summers: near Hinton.
A. hispida, Vent.

Rocky soils. Tucker: near Davis, along Blackwater Fork of Cheat.

## CORNACE ※.

## CORNUS, L.

C. florida, L. Flowering Dogwool. M. \& G.

Dry woods. Monongalia throughout, some ruite large trees near Morgantown. Wood, Wirt and Calhoun counties. Gilmer: near Glenville-Prof. Brown;-V. M. Lewis and Upshur counties. Randolph: on Cheat Mountains, alt. 3600 ft.. Marion: Webster: Fayctte: near Nuttallburg-L. W. N. Hardy ; near Moorefield-G. Mercer : near Blucfield.
C. circinata, L'Her. Round-leaved Dogwood.

Damp, cool woods. Rare. Upshur: near Lorentz.
C. sericea, L. Kinnikinnik.

Wet places. Grant: near Bayard. Randolph: along Tygart's Valley River. Nicholas: along Peter Creek. Fayette: near Nuttallburg-L. W. N.
C. candidissima, Marsh. Panicled Cornel. C. paniculata, L'Her.

Thickets and river banks. Monongalia: near Morgantown. Marion: Montana; along Beaver Creek. Randolph : Cheat River, alt. 2700 ft. Summers: near Hinton. Hampshire: near Romney.
C. alternifolia, L.f.

Hillside copses. Monongalia, Marion, Preston, Wood and Calhoun counties. Gilmer: near Glenville--V. M. Lewis: along Leading Creek. Upshur: near Lawrence. Fayette: near Nuttallburg-L. W. N. Greenbrier: near White Sulphur Springs. Summers: near Hinton.

NYSSA, L.

N: sylvatica, Marsh. Black Gum. . M. \& G.
Various situations throughout the State. Wood: near Leachtown. Wirt: along Straight Creek. Calhoun: near Brookville. Gilmer: near Glenville--V. M. Monongalia: near Morgantown. Randolph: on Point Mountain. Webster: on Buffalo Bull Mountains. Fayette : near Nuttallburg -L. W. N. Summers: near Hinton; and along the Greenbrier River. Kanawha: near Handley. Mercer: near Ingleside.

## CAPRIFOLIACE 巴.

## SAMBUCUS, L.

S. Canadensis, L. Common Elder. L. W. N., V. M., M. \& G. Rich soils; common in bottoms and along fences throughout the State; cren in the pine and spruce forests of the higher mountains ; altitude on Point Mountain 3050 ft .
S. racemosa, L. Red-berricd Elder.
M. \& G.

Decp, rich mountain woods, near rivulets. Abundant in Randolph, Grant and Tucker counties. Fayette: near Nuttallburg-L. W. N.

Forma albicocca, Britt.
With the species rare. Ranclolph: on Point Mountain. Grant: near Bayard.

## VIBURNUM, L.

V. lantanoides, Michx. Hobble-bush.

Cold, rich ravines. Randolph: near the summit of Point Mountain. Grant: near Bayard. Tucker: along the Blackwater.
V. acerifolium, L. Arrow Wood. Dockmackie. M. \& G.

Cool, rocky woods. Throughout the mountains of the eastern counties. Preston and Monongalia: along Cheat River. Gilmer: near Glenville-V. M. Mineral: near Keyser-W. F'ayette: near Nuttallburg-L. W. N. Grant: near Bayard.
V. dentatum, L. Arrow-wood.

Wet places or damp thickets. Upshur: near the Summit on Staunton Pike. Fayette: near Nuttallburg, rareL. W. N.
V. nudum, L.

Rich woods. Randolph : at Ford's, near the Middle Fork River. Webster: ©pper Glade.
V. Lentago, L. Sweet Vibumum. Sheep-berry.

Rich banks of streams. Randolph: on Point Mountain, alt. 3660 ft .
V. prunifolium, L. Black Haw. Namy-berry.

Copses and edges of woods. Wirt: near Burning Springs. Mineral: near Keyser-IV. Gilmer: near Glen-rille-Tr. M. ; Prof. Brown. Fayette: near Nuttallburg-L. W. N. Summers: near Hinton.

## TRIOSTEUM, L.

T. perfoliatum, L. Tinker's Weerl. Wild Coffee.

Rich borders, infrequent. Randolph: Cheat Mts., alt. 4,600 feet. (iilmer: near Glenville-V. M. Fayette: near Nuttallburg-L. W. N. Hardy : near Moorefied-G. Mercer: near Princeton.

## SYMPHORICARPOS, Juss.

S. orbiculatus, Moench.
S. vulyaris, Michx.

Dry places. Nicholas: near Peter Creek. Fayette: -near Nuttallburg, alt. 2,000 ft.-L. W. N.

## LONICERA, L.

L. glauca, Hill. Smooth Honeysuckle. L. parviflora, Lam. Rocky soils. Monongalia: near Morgantown.
L. Japonica, Thunb.

Escaped from cultivation. Mason : banks of the Ohio near Pt. Pleasant. Jefferson : near Shepherdstown. Taylor : near Grafton.

## DIERVILLA, Tourn.

D. trifida, Moench. Bush Honeysuckle.

Thickets. Monongalia: near Morgantown, along Decker's Creek.

## $R \mathrm{BBIACER}$.

HOUSTONIA, L.
H. cærulea, L. Bluets. Imnocents. M. M. A G.
Moist fields. Monongalia: Marion : Preston: Wood:
Wirt: Calhoun : Lewis: and Upshur. Gilmer: near Glen-
ville-Prof. Brown-V. M. Kanawha-James. Mineral:
Jefferson: Berkeley: and Morgan. Fayette: near Nuttall-
burg-L. W. N. Hardy : near Moorefield-G.

Forma albiflora.
Grassy places, Permian formations. Monongalia: near Cassville.
H. serpyllifolia, Michx.

Rocky places. Tucker: rocks below the falls of Blackwater. Monongalia: on rocks in Tibb's Run.
H. purpurea, L.

Wooded opens. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg-L. W. N. ; Kanawha Falls-James. Hampshire: near Romney. Grcenbrier: near White Sulphur Springs. Summers: near Hinton. Monongalia: near Ice's Ferry.

Var. ciliolata, Gray.
Monongalia: near Morgantown. Fayette: near Nut-tallburg-L. W. N. Greenbrier: near White Sulphur Springs.

Var. longifolia (Gaertn.), Gray.
M. \& G.

Dry soils, the most common form of the species.
Wood: near Lockhart's Run. Wirt: near Burning Springs. Calhoun: near Grantsville. Gilmer: near DeKalb. Lewis: up Stone Coal Creek. Upshur: near Buckhannon. Randolph: near Cricard P. O. Cabell: near BarboursvilleJames. Fayette: near Nuttallburg-L. W. N. Mercer: near Bluefield.

Var. tenuifolia, Gray.
Greenbrier: near White Sulphur Springs.
Var. calycosa, Gray.
Greenbrier: near White Sulphur Springs.

## CEPHALANTHUS, L.

C. occidentalis, L. Button-bush. M. \& G. Along streams. Monongalia: along the Monongahela and Cheat Rivers. Preston: general in the glades and along streams. Grant: near Bayard. Randolph: along Tygart's Valley River; near Cheat Bridge. Fayette: near Nuttallburg L. W. N.; near Kanawha Falls-Janies. Monroe-near Alderson. Summers: near Riffe and Hinton.

## MITCHELLA, L.

M. repens, L. Partridgé-berry. M. \& G.

Rich woods, under evergreens. Upshur: Sand Creek. Grant: near Bayard. Tucker: along Blackwater. Mineral: Knobby Mts.-W. Randolph: along Cheat River. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg-L. W. N. Kanawha: near Coalburg-James.

## DIOIDA, L.

D. teres, Walt. Button-weed.

Sandy river banks. Ohio: along Bogg's Rnn, near Wheeling-M. \& G. Preston: banks of Cheat River. Fayette : near Nuttallburg, rare-L. W. N.

## GALIUM, L.

G. Aparine, L. Goose-grass. Cleavers. G., L.W. N.,V.M., M. \& G. Shaded places. Frequent throughout the State.
G. pilosum, Ait.

Dry copses. Fayette: near Nuttallburg-L. W. N.; near Kanawha Falls-James. Kanawha: near CoalburgJames. Monongalia: near Little Falls and Uffington; near Camp Eden.
G. circæzans, Michx. Wild Liquorice.

Rich woods. Wood: near Lockhart's Run. Monongalia: Rich Woods near Morgantown; Ice's Ferry and Camp Eden. Fayette: near Nuttallburg-L. W. N.
G. laceolatum, Torr:

Dry woods. Monongalia: near Morgantown. Ohio: near Wheeling-M. \& G. Fayette: near Nuttallburg-L. W. N.
G. latifolium, Michx.

Fayette: near Nuttallburg, uncommon-L. W. N. Preston: near Rowlesburg-M. \& G.
G. trifidum, L. Small Bedstraw.

Low, wet grounds. Monongalia, Lewis, Upshur, Gilmer, Calhoun, Wirt, Wood, and Webster: Long Glade. Fayette: near Nuttallburg-L. W. N.

Vai. latifolium, Torr.
Damp soils. Webster: in Long Glade.
G. concinnum, Torr \& Gray. M. \& G.

Low, wet grounds. Wood: near Kanawha Station. Wirt: near Elizabeth. Lewis: along Leading Creek. Randolph: near Valley Bend.
G. asprellum, Michx. Rough Bedstraw.

Alluvial bottoms. Monongalia: along the Monongahela River. Greenbrier: near White Sulphur SpringsM. $\mathbb{E}_{8} G$.
G. triflorum, Michx. Swect-scented Berstraw.

Rich woodlands. Lewis: along Leading Creek. Upshur: near Lorent\%. Webster: along Buffalo Bull range. Monongalia: near Morgantown. Fayette: near Nuttallburg -L. W. N.

## VALERIANACE A

## VALERIANA, L.

V. pauciflora, Michx. Valerian.

Fields and open woods: Ohio: near MoundsvilleM. \& $G$.

> DIPSACE
> DIPSACUS,.
D. sylvestris, Mill. Teasel. "Water Thistle." Huttonweed." M. if G.
Roadsides and waste places. Wirt: near Burning Springs and Elizabeth. Marion: near Worthington; near Fairmont and Houghton in great quantity: Webster: Buffalo Bull Mountains, alt. 2100 ft . Fayette: near Crescent; near Nuttallburg-L. W. N. Kanawha: along the Kanawha and Pocotaligo Rivers. Jackson: along Allen's Fork. Gilmer: near Glenrille-V. M. Jefferson: near Flowing Spring and Shenandoah Jc. Randolph: Cheat Mits. near Cheat Bridge, alt. 2700 ft ; near Hattonsrille. Greenbrier: near White Sulphur Springs, near Fort Spring. Monroe: near Alderson. Summers: near Hinton. Nonongalia : along Decker's Creek. Harrison: near Lumberport. Mineral: opposite Cumberland. Berkeley : near Martinsburgh. Hardy: near Moorefield. Mercer: near Ingleside, and Ada.

## COMPOSITA.

## ELEPHANTOPUS, L.

E. Carolinianus, Willd.

Dry banks. Fayette: near Nuttallburg-L. Wr. N.
E. tomentosus, L. "Tohaceo Weed." "Devil's Grandmother." Ficlds. Harrison: near Quiet Dell. Upshur: near Lorentz.

## VERNONTA, Schreb.

V. altissima, Nutt. Lron-weerl

Low grounds. A frequent weed throughout the northern, central, and western portions of the State. Fayette: near Nuttallburgh-L. W. N.
V. Noveboracensis (L.), Willd. Tron Weed. G., L. W. N., M. \& G.

In meadows and pastures, common throughout the State.

Var. Jatifolia, Gray.
Meadows and fields. Mason : near: Point Pleasant. Monongalia: near Morgantown. Fayctte: near Nuttallburg -L. W. N.

## EUPATORIUM. L.

E. purpureum, L. Queen of the Meadow. "Quill-wort." L. W. N. V. M., M. \& G., G.

Low grounds. Common throughout the State. Cheat Mountains in Randolph at an altitude of 3600 feet.

Var. amœenum, Gray.
Rich woods along runs. Grant: Buffalo Creek near Bayard. Tucker: Beaver Creek near Davis.
E. hyssopifolium, L.

Sterile soil. Jefferson : near Shepherdstown.
E. rotundifolium, L., var. pubescens. (Muhl.), B. S. P.
(E. pubescens, Muhl.)

Dry hillsides. Fayette: near Nuttallburg-L. IT. N. Jefferson: near Shepherdstown. Monongalia: near Morgantown and Camp Eden.

E altissimum, L. Tall Boneset.
Dry soils. Monongalia : near Little Falls and Beech: woods.
E. sessilifolium, L. Upland Boneset.

River banks. Monongalia: near Beechwoods. Fayette; near Nuttallburg, plentiful-L. W. N.
E. perfoliatum, L. Boneset. Thorough-wort. G., L. W. N., T. M., M. \& G.

Damp places. Common throughout the State.
E. ageratoides, L. White Snake-root.

Rich woods. Monongalia: along Decker's Creek and elsewhere plentiful. Randolph: Cheat Mountains near Cheat Bridge. Marion: near Worthington. Fayette: near Nuttall-burg--L. W. N. Hardy: near Moorefield-G.
E. aromaticum, L.

Rich soil. Fayette: near Nuttallburg. Hardy: near Moorefield--G.
E. cœlestinum, L. Mist-flower.
M. \& G.

Rich soils. Putnam, Jackson, Wood and Monongalia. A common weed. Randolph: along Tygart's Valley River. Harrison: along the "Monongah" R. R. Summers: near Hinton. Fayette: near Nuttallburg-L. W. N. Putnam: near Buffalo. Kanawha: near Charleston. Mason: near Point Pleasant. Marion: near Montana and Worthington. Jefferson: near Shepherdstown.

LACINARIA, Hill (1762).
Liatris, Schreb. (1791).
L. spicata, (L.), OK.

Among rocks, banks of New River-Selby. Fayette: near Nuttallburg, heads 5 -flowered--L. W'. N.

## CHRYSOPSIS, Nutt.

C. Mariana (L.), Nutt.

Dry, rocky roadside. Fayette:R. \& K.turnpike near Nut-tallburg-L. W. N.

## SOLIDAGO, L.

S. latifolia, L.

Moist, shaded banks. Monongalia : banks of the Monongahela and Cheat River. Fayette: near Nuttallburg-L. W. N.
S. cæsia, L. L. W. N., V. M., M. \& G.

Rich woodlands. Frequent throughout the State.
S. Curtisii, Torr. \& Gray.

Woodlands. Fayette: near Nuttallburg, commonL. W. N.
S. bicolor, L.
L. W. N., M. \& G.

Dry fields and copses. Frequent throughout the State.
S. monticola, Torr \& Cray.

Woods and opens. Fayette: near Nuttallburg, alt. $2000 \mathrm{ft}-\mathrm{L} . \mathrm{W} . \mathrm{N}$.
S. puberula, Nutt.

Sunny opens. Fayette: near Nuttallburg-L. W. N.
S. speciosa, Nutt.

Cliffs and banks. Fayette: near Nuttallburg-L. W. N.
S. odora, Ait Sweet Golden-rod.

Fayette: near Nuttallburg-L. W. N.
S. rugosa, Mill.

Borders of fields and copses. Along Cheat River. Randolph, Tucker, Preston and Monongalia counties. Fayette: near Nuttallburg-L. W. N. Shores of the Monongahela in Barbour, Taylor and Marion counties.
S. ulmifolia, Muhl.

River banks. Ohio: Thomas Hill near Wheeling-Mr. \& G. Brooke: M. \& G. Fayette: near Nuttallburg-L. W. N.
S. Boottii, Hook.

Dry open woods. Putnam : near Buffalo. Fayette: near Nuttallburg-L.W. N.
S. arguta, Ait.

River banks. Ohio: banks of the Ohio River near Wheeling-M. \& G.
S. juncea, Ait. "Yellow Top."

Fields and waste places. Common throughout the northern, central and western counties. Fayette: near Nutt-allburg-L. W. N. Berkeley: near Martinsburg. Mason : near Point Pleasant. . Hardy: near Mooreficld-G.

Var. scabrella, Gray.
With the species. Frequent.
Var. ramosa, Britten.
River banks. Monongalia: near Morgantorn, below highwater mark along the Monongahela.
S. serotina, Ait.

Fayette: near Nuttallburg-L. W. N. Monongalia: near Morgantown.

Var. gingantea, (Ait.), Ciray.
Thickets. Gilmer: near (ilenville-V. M. Preston: near Rowlesburg.
S. rupestris, Raf.

Rocky river banks. Fayette: along the Gauley at Gauley Mountain ; Kanawha Falls and Hawk's Nest-James.
S. Canadensis, I.
L. W. N., M. \& G.

Borders and waste fields. Common throughout the State.
S. nemoralis, Ait.

Dry, sterile fields. Fayette : near Nuttallburg-_L. W.

- N. Common throughout the northern counties.
S. lanceolata, L.

River banks. Along Cheat River tnroughout its length. Along the Monorigahela in Marion, Taylor and Monongalia counties. Gilmer: along the Little KanawhaV. M. Mason : near Point Pleasant.
S. Caroliniana, (L.), B. S. P.
S. temuifolia, Pursh. Sandy fields. Monongalias near Morgantown.

## SERICOCARPUS, Nees.

S. asteroides (L.), B. S. P. White-topped Aster. M. \& G.

Dry grounds. Frequent or common throughout the State. Kanawha: near Charleston-James. Greenbrier: near White Sulphur Springs. Fayette: near NuttallburgL. W. N.

## BRACHYCH FTTA, T. \& G.

B. cordata, Torr. \& Gray.

Dry woods., Fayette: near Nuttallburg, plentifulL. W. N.

## ASTER, L.

A. corymbosus, Ait.
Shady places. Monongalia: near Morgantown. Fay-
ette: near Nuttallburg--L. W. N.
A. macrophyllus, L.

Open woorls. Fayette: near Nuttallburg-L. W. N.
A. patens, Ait.

Rocky river banks. Fayette: near Nuttallburg--L. W. N. Summers: near Hinton.
lor: phlogifolius, (Muhl.), News.
Open woods. Fayetto: near Notallamo-1. W. N.
A. lævis: 1 .

Rocky river banks. Momongalia: mear Little Falls.

A. undulatus, 1 .

Dry Noords. Mason: near Point Pleasant. Kallawha: near ('harleston. Faycto: near Nottallharg, common-1. IV. N.
A. cordifolius, L.

Woodlands. Momongalia: near Morgantown amd Litthe Falls. Fayctte: near Kanawharalls-. ame; ; near Nut-tallburg-L. IV. N. Mason : ncar Point Pleasant.

F'er. lævigatus, Porter.
Woodlanks and mens. Monomgatia: near Morgantown, aloundant.
A. virgatus, Ell.

Rocky river banks. Fayette: near Nuttallburg--L. W. N. Preston: along Cheat River. Monongalia: near ('amp Eden.
A. ericoides, L.

Dry open places. Fayette: near Nuttallburg-LL. W'. N. Mason : near Point Pleasant. Wood: near Parkersburg. Monongalia: near Morgantown.

I'tr: pusillus, Gray.
Dry ficlds. Monongalia: plentiful about Morgantown.

Citr. villosus, Torr. © Gray
Roadsides, etc. Fayette: near Nuttallbug, common -L. W.N. Monongalia: near Morgantown. Marion: near Faimont.
A. lateriflorus, (L.), Britt. (A. miser, Man. A. diffinus, Ait.

Dry or moist groumls: Monongalia : near Morgantown. Frequent throughout the northern counties, Handy : near Morrefiell-...

Trar. hirsuticaulis, (Lind.), "Nail-rod."
Fields and roadsides. C'abell: near Barbourville. Monongalia: near Morgantown ; and common themghout the northem, central and western eomenties.
A. multifiorus, . $i t$.

Hardy: mear Mowrefied - (i.
A. dumosus, L.

Hardy: mear Moorefield-G.
A. vimineus, Lam.

Shaded roadsides and fields. Fayette: near Nuttallharg, altitude 2000 ft , plentiful-L. IV. N. Monongalia: near Morgantown. Masoh: near Point Pleasant.
litr. foliolosus, (irily:
Monongalia: near Morgantown, Uffington and Little Falls, common.
A. paniculatus, Lam.
(A. simplex, Willd.)

Low grounds. Fayette: near Nuttallburg-L. W. N. Mason: near Point Pleasant. Putnam: near Buffalo.
A. salicifolius, Ait.

Near streams. Monongalia amd Preston: banks of Cheat River.
A. Novi-Relgii, $L$.

Dampi mealows. Monongalia: near Morgantown.
A. prenanthoides, Muhl.

Rich woods and borders of streams. Randolph: Cheat Bridge, alt. 3360 ft . Monongalia: shore of Monongahela above Morgantown. Fayette: near Nuttallhurg - L. W. N.
A. puniceus, L.

Swampy places. Fayette: near Nuttallburg, uncom-mon-L. W. N. Harly: near Moorefield-(:
A. umbellatus, Mill.

Moist thickets. Along Cheat River in Randolph, Tucker, Preston and Monongalia counties. Fayctte: near Nuttallourg-L. W. W. N.
A. infirmus, Michx.

Hountain wools. Raudolph: Point Mountain. alt. 2800 ft . Farette: ncar Notallbure-1. IV. N.
A. aouminatus, Michx.
('nol, rich woods. Randolph: 1 "ar Cheat Briclge. Filyette: near Kanawha Falls-James.
[A. tenuifolius, L.
(.1. Alexuп.ин.: Nutt.)
M. © (i.]
A. linariifolius, 1 .

Rocky places. Finyette: near Nuttallburg, along the banks of New River below high water mark, conmon-L. IT. N.

## ERIGERON, L.

E. Canadensis, L. Butter-weerl. Horse-weerl. L. W. N., V. M., M. \& ${ }^{(1}$ Wraste places. ('ommon theoughout the State.
E. annuus, (1.), Pers. Daisy Flcabane. Sweet Scabious. L. W. N.' V. M., M. \& G.

A weed in meadows and fiekds. ('ommon through out the state.
E. ramosus (Walt.), B. S. P. Daisy Fleabane. (E. striyosus, Muhl.)

Fields and waste places. Monongalia: the Flats and Effington. Fayette: Nuttallburg L. W. N.
E. pulchellus, Michx. Robin's Plantain. (E.bellidifolius, Muhl.) L. W. N., M. \& G.

Copses, common throughout the State.
E. Philadelphicus, L. Common Fleabane.

Moist ground. Frequent throughout the northern counties.

## ANTENNARIA, Gærtn.

A. plantaginifolia (L.), Hook. Ererlasting. L. W. N., M. \& G. Sterile hills. Frequent or common throughout the State.

## ANAPHALIS, DC.

A. margaritacea (L.), Bth. \& Hook. Pearly Everlasting. M. \& G. Dry hills and woods. Monongalia: along Decker's Creek. Marion : abore Opekiska.

## GNAPHALIUM, L.

G. obtusifolium, L. Everlasting. (ř. polycephalum, Michx. M. \& G.

Old fields. Frequent or common throughout the northern and central counties. Fayette: near NonttallburgL. W. . . Hardy: near Moorefich-(i.

Low grounds．（iant：mear baris．（iihmer：near （ilemville－－V．M．，Prof．Brown．Momongalia：near Morgan－ fown．Maton：near Point Pleasant．Wood：mar Parkero harg．

G．purpureum，L．P＇uplish（＇ud－woed．
 Femp．Fiyette：man Nuttallhur－1．IV．N．

## INULA，L．

I．Helenium，L．Elerampame．
M．が（i．
 Loment\％Nichohas：along Mumble－the－perg Creek．Fayette： near Nuttallhur－L．W．N．（ixembrer：near Ronerverte．
 Monongalia：मは：Stumptown．

## POLYMNIA，L．

P．Canadensis，L．Leal＇（＇up．II．\＆G．
Moist shaded ravines．Fayette：near Kanawha Falls and Hawkis Nest－James；Porter；near Nuttahlhurg－L．W． N．Hardy：near Moorefield－（ t ．

F（ti）．radiata，（iray．

P．Uvedalia， L ．
Rich mil．Ramblolfh：frequent along Tygart＇s Val－ ley River．Fayette：near Nuttallhurg－L．W．N．

## SILPHIUM，L．

S．Asteriscus，L．
Dry sandy suil．Wirt：heyond Burning sbrings． Tackson：near Ripley．

S．trifoliatum，L．Rowin－weed．

S．perfoliatum，L．（＇x1，Plant．
Alongetreams．Faycto：near Hawk＇s Nest－．James；


## CHRYSOGONUML，L．

C．Virginianum，L．
Dry soils．Harly：near Moorefich－G－

## PARTHENIUIM, L.

| P. integrifolium, 1 | Snerac-wort. |
| :---: | :---: |
| Drevereits. | Fayette: Dear Nuttallhurg, banks of Now |
| iver below high | water mark, plentiful-L. W. N. Cimem- |
| r: near Wh | ulphur Springs-M. \& (i. |

## AMBRROSIA, L.

## A. trifida, I. (irrat Rag-weed. (i., L. W. N., M. \& (i. <br> Moist phaces. Common or abundant thronghout the State.

Far. integrifolia, (Muhl.), T. \&f (i.
With the species, uncommon. Monomgalia: near Morgantown. Wood: near Parkershmerg. Fayette: near Nuttallburg-L. Wr. N. Berkeley: near Martinshorge.
A. artemisiæfolia, L. Rag-Ifecd. (i., L. W.N., V.M., M. \& (i. Fields and roadsiles. Ahundant throughout the State.

## XANTHIUM, L.

X spinosuma. L. Spiny C'lotbur.
Wraste lands along rivers. Kanawha: at Stockton's. Mineral: near Piedmont. Jefferson: near Shepherdstown. Wrood: near Parkersburg. Berkeley: near Martinsburg.
X. Strumarium, L. Clothur. Cockle-bur.

Low waste grounds. Monongatia, Marion and Gilmer counties. Wood: near Parkersharg. Lewis: near Weston. Jefferson: near thepherditown.
X. Canadense, Mill.
L. W. N.

Low wante grounds. Common throughout the State.

## ECLIPTA, L.

E. alba, (L.), Hassk. (Eeliptu prochmbens, and E. evectu, Michx.)

Wet river banks. Mason: banks of the Ohio near Point Pleasant. Ohio: near Wheeling - MI. \& (t. Fayette: R. R. bank, Nuttallburg-L. W. N.

## HELIOPSIS, Pers.

H. scabra, Dunal. Ox-eye.

Fields. Gilmer: near Glemville-V. M.
H. lævis, Pers.

Fayette: near Nuttallburg-L. WV. N.

## ECHINACEA, IMoench.

E. PURPUREA, Moench: Purple Cone-flower.

Along the C. \& O. R. R. Fayette: near Nuttallburg; a rough, bristly form-L. IV. N. Adrentive from the west.

## RUDBECKIA, L.

R. laciniata, L. Cone-flower.
M. \& ( x .

Low grounds. Monongalia: Little Falls, Beechwoods, Uffington, and Morgantown. Fayette: near NuttallburgL. W. N.

Fit: humilis, (fray.
Monongalia: hanks of Munongahela River helow Morgantown.
R. fulgida, $\lambda$ it.

Ficlds and Meadows. Monroe: abundant near Alderson. Hardy: near Moorefield (r.
R. triloba, L. Brown-eyed Susan. MI. \& G.

Dry fields. Gilmer: near Cilenville-V. M. Greenbrier: near White Sulphur Springs.
R. Hirta, L. "Nigger Head." "Y'ellow Daisy." Brown-eyed Susan. M. \& G.

Becoming too frequent in Meadows. Randolph : Criccard P. O. Throughout the Ohio Rirer counties. Fayette: along Loup Creek-James, 1887; near Nuttallburg-L. W. I. Wood: near Kanawha Station.
R. speciosa, Wender.

Dry soils. Ohio: near Wheeling-M. \& (t.

## HELIANTHUS, L.

H. lætiflorus, Pers.

Dry Opens. Farette: near Nuttallburg.
H. occidentalis, Riddell. Western Sunflower.

Banks of New River. Fayette near Nuttallburg. in-frequent-L. W. N.

Fir. Dowellianus, T. if (i.

H. tomentosus, Michx.

Banks of New River. Fayette: near NutallburgL. W. N.
H. grosse-serratus, Martens. Large-toothed sunfowm.

Dry fields. [jpshur: near Buckhannom.
H. giganteus, L. (xiant Wild Sunflower.

Low grounds. Randolph: near Cheat Bridge. Fayette: near Nuttallhurg, plentifil--L. W. N. Preston: near Terra Alta.
H. lævigatus, Torr. © (iras.

Thickets. Preston : near Terra Alta.
H. doronicoides, Lam.

Dry grounds. Ohio: m Bogg's Island.-M. \& (if. Hardy: near Mooreficld-(\%.
H. parviflorus, Bernh.

Thickets. summers: near Hinton. Greenbrier: near White Sulphur Springs. Fayette : near Nuttallburg-L. W. N. Preston: near Terra Alta.
H. divaricatus, L.

Thickets and dry places. Fayette: near Nuttallburg -L. WV. N. Jackson: up 8 mile creek.
H. hirsutus, Raf.

Dry banks. Fayette: near Nuttallburg, rare-L.W. N. Mason: Banks of the Ohio near Point Pleasant. Hardy: near Moorefield-(t.
H. strumosus, L.

River banks and low copses. Monongalia: along Decker's Creek.
H. tracheliifolius, Willd.

Mountain Woods. Fayette: near Nuttallburg, un-common-L. $\mathrm{V}^{\text {. }}$. N.
H. decapetalus, L.

Rich open woods: Monongalia: near Little Falls and Ufington. Fayette: near Nuttallburg, the most common species here; petals mostl. S-L. IT. N.

## VERBESINA, L.

V. occidentalis, $H$ :alt. (rownbard.

Rich soil. Fayette: near Nuttallhug-L. IV. N. : and along the (freat Kanawha River to its mouth. Jackson: up S-Mile Creek. Woorl: near Lockhart's Rom. Monongalia: near Morgantown. Summers: near Hirton. Jefterson: near Shepherdatown. Berkeler: ncur Martinshurg.

> RIDANIA, Adans. (176:3)
> (Actinomeris, Nutt. 1818)
R. alternifolia, (L.), (OK. (Aetimmeris squarosa, Nutt.)

Rich suil. Ohio: near Wheeling-M. \& \& Fayette: near Nuttallburg, common-l. IV. N. Monongalia: near Morgantown. Kanawha: near Charleston.

## COREOPSIS, L.

C. lanceolata, L., V'ur. villosa, Michx.

Rich soil. Farette: banks of New River near Nut-tallhurg-S. W. N.
C. pubescens, Ell

Rich shady place. Fingette: near Nuttallbug-L. II. N.
C. trichosperma, Michx.

Fields. Kanawha: near Charleston. Monongalia: near Morgantown.
C. auriculata, L.

Rich banks. Fayette: near Nuttallburg-L. WV. N.; near Hawk's Nest-Porter. Monroe: near Ahterson.
C. senifolia, Michx.

Shady woods. (irembrier: noar White Sulphur Springs-M. if $\left(\begin{array}{c}\text {. } \\ \text {. }\end{array}\right.$

Titi. stellata, Torr. di Ciray.
Fayette: banke of New River near Nottallhurg-L. W. N.
C. tripteris, 1. Tall Coreons.

Rich gromal. Jackson: plentilul along s-atile ('reek and on Limestonc Ridge. Fayette: mear Nuttallhurg-L. W. N. Monongalia: near Little Falls.

## BIDENS, L.

B. frondosa, 1. Beggar's Ticks. Ntick-tight. "Pithh-forks." L. Wr. N., M. © Damp wasteplaces. ('ommon thronghout the State.
B. connata, Muht. Sw:mp, Beggars Thick. M. \& (i. Wet places. Frequent thoughout the itate.

L'(1): comosa, (ilily.
Dami onen places. Finyettr: man Nuttallourg-L. W. N. Monongalia: near Morgantown and frepuent throughout the state.
 M. \&if

Wet places. Frergent throughout the State.
B. bipinnata, L. Smimish Neetles. L. W. N., M. ©i. (i. Dry paces. Abundant throughout the sitate.

## GALINSOGA, Ruiz \& Pav.

G. Parviflora, Car.

Wiste grounds. Mason : near Point Pleasant. Wood: near Parkershurg.

## HELENIUIN, L.

H. autumnale, l. Sneeze-weed.

Alluvial river banks. Wirt: along the Little Kanawha River. Fayette: mear Nuttallhurg-L. IV. N. Monongatia: near Morgantown. Randolph: near Cheat Bridge. alt. 3660 ft . Summers: near Hintom. Hardy : near Muore-field--(i.

## ANTHEMIS, L.

A cotula, L. Doge Fennel. May-weed. L. IV. N., M. if (r. Fields and waste gromads. Common theroghout the State.
A. ARVENSIS, L. Ch:momile.

Waste places. Morgan: alomg the B. it O. R. R. near No. 12 Water Tank.

## ACHILLEA, L.

A. Millefolium, L.. Y'arrow. Milfoil. (i., L. IV. N., M. © (. Common throughout the State, even in the most inaccessible portions of the rirgin forests in the Alleghanies, where it certainly appears native. Ramelolph: Point Mown-- tain. alt. 3800 ft . Nicholas: Buffalo Range, alt. 2875 ft .

## CHRYSANTHEMUIM, L.

C. Leucanthemum, 1 . ()x-laisy. "Sheriff Pink." M. d. G. Becoming ton plentiful as a weed in ftelds, in the following combties: Monomgalia, Marion, Dampshire: where it is often known as Sherifi Pink; Jackson, Preston, Kanawha: near Charleston-Sames; Cabell : near Babboursville- James (1877); (irant, Lewis, 'pshur, Randoloph, Berkeley' near Martinshurg ; Fayette: near Nuttallburg-L. W. N. Greenbrier: near Ronceverte, Caldwell, Fort Spring, and White Sulphur Springs. Hardy: near Moorefield-G. Nercer: near Princeton and Inglesicte.

## MATRICARIA, L.

M. discordea, D(. Wild Chamomile.

Established on B. \& O., R. R. kank, Morgan : near No. 12 Water Tank.

## TANACETUM, L.

T. vulgare, L. Tansy. M. \& G.

Escaped to roadsides. Crilmer: near DeKalb. Lewis: near Weston. Grant: near Davis. W'ood: near Parkersburg. Jefferson: near Shepherdstown. Monongalia: on Kingwood Pike.

## SENECIO, L.

S. vUlgaris, L. Groundsel.

Roadsides, fence rows, streetsand waste phaces ; allemtive from Europe. Frequent.
S. aureus, L. Golden Rag-wort. L. IV. Ň., I'. M., M. de (i. Damp places in open woorls. Frefuent throughout the state.
lifi. obovatus (Muhl.), T. © (i.
Damp places. Lewis: near Westom. Monongalia: near Morgantown.

Var. Balsamitæ (Muhl.), T. \& (i.
Rocky open woods. Fayette: near Nuttallburg-L, Wr. N. Monongalia: near Morgantown. Mercer: near Bearer Apr.

## CACALIA, L

C. suaveolens, L. Indian I'antain.

Rich hanks. Monongalia and Marion: from Opekiska to Morgantown along the Monongahela Riser, frequent. Preston: near Terra Alta. Summers: near Hintom Ohio: near Wheeling-M. \& ( x .
C. reniformis, Muhl. (freat Indian Plantain.

Rich woods. Marion: along the F. M. d P., R. R., especially near Opekiska. Summers: near (treenbrier Stock Yards. Monroe: near Akderson and Wolf (reek. Preston: near Terra Alta. Ohio: Bogg's [slaml, near Wheeling-M. d ( t .
C. atriplicifolia, 1. Pale Indian Plantain.

Rich woodlands. Upshur: near Lorentz. Monongalia: hanks of Cheat of Cheat River, near Camp Eden. Ohio: near Whceling-M. \& G. Fayette: near Nuttallburg -L. W. N.

## ERECHTITES, Raf.

E. hieracifolia (L.), Raf. Fireweerl.

Moist woods and banks, especially new fallows. Randolph: near Cheat Bridge, alt. 3700 ft . Farette: near Ňut-tallburg-L. W. N. Monongalia: mear Tffington and Morgantown.

## ARCTIUM, L.

A. LAPPA, L. Burdock. L. W. N., M. \& G.

Waste grounds. near dwellings. Abundant everywhere.

「ir: minus. Gray.
Fayette: near Nuttallburg-L. II. N.

## CNICUS, L.

C. Lanceolatus (L.), Willd. Common Thistle. L. Wr.N., M. \& (r. Fields, waste grounds, and roadsides. Common.
C. altissimus, (L.), Willı. Tall Thistle.
 ion and Preton combies. Faycte: near Nuttallharg-h.
 near Mondedid.

Fai. discolor, (ilay.
II. \& G.
 and mear Shepherdstawn.
C. Virginianus, (Michx.), l'ursh. V'irginia Thisthe.
 ton: near Temal Ata. Fremuent thonghont the State.

 ft. ['psinur: near Loment\%. Kamawha: near Tharlestom. Preston: man Terma Alta.
C. odoratus, (Muhl.). 1. s. P': P'asture Thistle. ('irsium fonmilum. sin.
 l'restom: near Terra Alta; mear Crambery rummit-d. did.
C. ARVENSIS (1.). Infim. (amala Thistle. M. © (i. Dry fields, becoming tromblemme in many lowalities. Ieffermon: mentiful near Charlcitomm, where it wat doulthers brought in hated hay ley the Foderal trome during the war. Randophs: wh the apex' of Point Monntain, alt. :3706 ft., in a field owned and cultisated two yents ase he a (bomerticut gentleman. who prohaldy bought the seed there from the
 near sammit Point; and shemandoah Junction. Hancoek: near Hollirlay's Core Browke: at Wellshar.

Reported also firm : Hampshire : near slancrille : ame ('apon Britge. Brooke: mear Wrellshaty. Ohin: near Beech (ilme Schowl bonse. Summers: near fumping branch. P'untam: near Hurvicance, Patalise amb Contidence. Jefler-
 Junction, Leetown, and ('lathextown. Lewis: near ('maden. Harisom: near shimstom, and Wallace. Mincral: near Pattersom's Depot (simer destreyed). Berkeley: mear Martins-
 \%el: mear Endientt. Jackenn: mear Samly amd Silvertom.
 cord ('hureh. W'ayme: ncar Stome Conal. Braxton: near Bullown. and Tate ('wok. Tyler: in Mead dist. Vame: near Newtom, and Lomoterille. Ľphur: near Exerquent.
 Rowkport. Ritchie: Bear Bereal. Faycte: near Mountain

Cove. Marshall: near Mreghem. Itarly: man Wartensville.

 (ereonland. Hameork: near llolliday'* ('ove. Taylor: near (irafton. Catull: near Milton. ('lay: mar Valley Fork. Dondridere: near Leopobld.

The presencer of this werd in the foratities noted in the recond paragraph, where not corroborated in the first, is open to doulit.

## ADOPOGON, Neck. (17!()). (Krigia, Fichrel. 17:91.)

A. Dandelion (DC.). Dwarf Detntelion.

Kanawha: near Charleston, (?)-, 「ames.
A. amplexicaulis, (Michx.)

Moist woods and opeens. Momongalia: ncar Morgantown. Wond: near Lockhart's Run, heroming a hat weetHopkins.

## CICHORIUM, L.

C. Intybus, I. Chicory.

Fichls. Jefferson: two stations near Shepherdstown. (ifeenbrier: near White Sulphur Springs-MI. \& (i.

## HIERACIUME, L.

H. Canadense, Michx. Hawkwerl.

Diy Wooch: Wrhster: near Upper Glade.
H. paniculatum, I .

Moist grounds. Preston: near Cranherry Summit-M. \& (i. Fayette : near Nuttallburg-L. IV. N.
H. venosum, L. Rattlesnakrweul. (i., L. W. N., M. \& G.

Openings, and edges of dry worls. Frequent throughout the sitate
H. scabrum, Michx.

Dry open wools. Fayette: near Nuttallhurg-L. W. N. Monongalia: along Decker's Creek. Preston: near Terra Alta.
H. Gronorii. L.

Dry moils. Fayette: near Nuttallburg, alt. 2000 ft .
-L. W. N. Cpshur, summit on Stamon Pike.
H. longipilum, Torr.

Dry situations. Monongatia: Decker's Creck, near Moreantewn. Fayette: near Kanawha Falls, and Hawk's Nest-dames.

## PRENATHES, L.

P. altissima, 1.

Rirh moist words. Farete: near Nuttallhurg-L. II. N.
P. alba, L.

Open wookls. Hardy: near Momeficld--(i.
P. serpentaria, I'ursh. (fall-of-the-Earth.

Sandy woorls. Randulph: near Cheat Bridge, alt. 3-50 ft. Summers: near Hinton. Jarion: near Catawha. TARAXACUMI, Haller.
T. officinale, Welo. Dandelion. (T. Demaklemis, Desf.) L. W. N... G. All situations. Frequent throughout the state.

## CHONDRILLA, Tourn.

C. JUNCEA, L. "Makerl-weerl." "skeleton-weerl."

Fieds and roadsides. Hampshire: near Bloomery, where the name Naked-weed has heen given it on account of the minutness of the leares. Jefferson: near Summit. where it is called Skeleton-weed, for the same reason: near Chamlestown. Berkeley: near Martinshurgh.

## LACTUCA L.

L. scariola, L. Prickly Lettuce.

Fields. Monongalia: near Laurel Point, where it has become at troul, lesome weed.

L Canadensis, L. Wild Lettuce. Home-weed. "Devil-weed." L. IV. N.. M. \&゚(i.

Teatons and fence-wns. Common throughout the State,
L. integrifolia, Bigel. "Devil's Iron-weed."

Fields and rondsides. Monongalia : near Morgantown. Mason: near Point Pleasant. Fayette: near NuttallburgL. IV. N. Jarksom: near Domglas.
L. hirsuta, Mfuhl.

Dry open mountain sides. Finyette: ne:nr Intall-humg--L. II. N.
L. leucophæa, (Willd.), (iray. (Mnlyedinm leuropharum, DC.) Low woodlands. Fayette: near Nuttallharg--L. W. N. Monror: near Aldersom.
L. villosa, Jacq. (Mulypelinm н"нminutum, DC.)

Bordars. Fayette: near Nuttallburg-1. W. N. Monroe: near Alderson. Preston: near Terra Alta.
L. Floridana, (L.), (iacrin.

Open banks and horders of woods. Fayette: near Nuttallhurg-L. IV. N.

## SONCHUS, L.

§. OLERACEUS, L.. Sow-thistle.
Wastr grounds. Ohio: near Wheeling-M. it (i.
S ASPER, Vill. Spiny laved Sow-thistle. M. di (i.
Roadsides and wastes. Monomgalia: near Morgantown. Narion: near Fairmont. Hamphire: near Slanesrille. Wetzel: near Littletom. Lewis: near Vadis. ('abell : near Union Ridge. Mercer: near Concord Church. Fayette: near Nuttallhurg-L. W. N. Doddridge: near Smithton.

## TRAGOPOGON, I.

T. PORRIFOLIUS, L. Salsify. Oy:ter-plant.

Waste grounds. Xorgan: near No. 12 Water Tank.

## CAMPANULACEAE.

## LOBELIA, L.

L. cardinalis, L. C'ardinal Flower.

Low grounds, and low hanks of streams: Nicholas: Collettes Chade. (filmer: near Glenville-V. M., Prof. Brown. Randolph: near Cricard I'. O. (ircenbrier: near White Sulphur Springs. Summers: near Talcott, and Hinton. Kan awha: near Kanawha Citr: Mason: near Brighton. Frequent throughont the statr. Hardy: near Moorefield-(t.
L. syphilitica, L. (ireat Blue Lohelia. M. が

Low wet grounds. Randolph: near Elkins and along the valley of Trgat's. (tilner: near (blenville-V. M. Fayette: near Nuttallhurg. Greenhrier: near White Sulphur Springs. Monongalia: near Morgantown. Summers:
near Hinton. Joblemon: mearshepherkstown. Harely : hear Mometichl- (i.
formor albiflora, Britt.
With the speries. Rambulph: near IIutonsville, fresquent.
L. puberula, Nichx.

Low groumdi. Fayette: near Nuttallhuro-L. W. N. Monomgalia: near Morgantown.
L. amoena, Michx. ror. glandulifera, (irus.

Swampe spots. Fayette: near X uttallburg alt. 2000 ft., rare-I. II $^{*}$. N.
L. leptostachys, A. 1)(.

Gandy soil. Wrood : near Leachtown. Simmmers: near Hintom.
L. spicata, Lam.

Sandy hillsjdes. Monongalia: near Tce:s Ferry. and ahove Camp Eden. Upshur: near Buckhamono.

Far. parviflora, Cray.
Wet places. Gilmer: near (rlenville-VT. M.
L. inflata, I. Indian Tobaceo. Lobelia. L. W. N. V̌. M., II. \& G. Dry soils. Common throughout the State.

I'tu. simplex (Raf.),
Dry places. Randolph: near Cricaml, P. O. Characters of the speries, lout simple stemmed.

Haring noted that this form perpetuated itself at one station in New York State, near Binghamton, for fire yours; I have decided that it is a true varietr. Approaching the question from another point of riew: l worked orer a field near Morgantown this searon, examining 78 small plants of L. inflata, many of which were not wrer four inches high, without funding a single simple-stemmed plant imong them. At the rtation above namerl, as well as that in New York, there was a goodly amomet of the variety, with nowe of the apecies in the immediate neighborhool.

## SPECULARIA, Heist.

S. perfoliata, (L.), I. 1) Venus Looking-glast. II. \& (i.

Hry soils. Monongalias: near Morgantown. L'pshur. near Burkhammom. Gilmer: mear (ikeville-V. M. Fayette: near Nuttallhurg--D. W. N. Mardy: near Moorefield - (i.

## CAMPANULA, L.

C. rotundifolia, L. Harebell. M. \& G. Moist rocks. Mineral : along the Potomac, near Key-ser-W. Gilmer: near Glenville-V. M. Tucker: along the Blackwater.
C. aparinoides, Pursh. Marsh Bellflower.

Wet meadows. Preston: near Trrat Alta.
C. Americana, I. Tall Bellflower. M. \& G.

Rich woods, or eren on dry rocks. Monongalia: near lee's Ferry. Wood, Wirt and Calhoun counties, general. Gilmer: near Glenville- Y'. M., Prof. Brown. Lewis, and Upshur. Randolph: near Cheat Bridge, alt. 3650 ft , with wands $4-6 \mathrm{ft}$. high. Webster: in the glade region. Fayette: near Nuttallburg-I. W. N.; along Loup Creek-.James. Kanawha and Jackson: general. Greenbrier: near White Sulphur Springs. Sumners: near Hinton. Marion : near Worthington, and near Faimont.
C. divaricata, Michx.

Dry banks. Summers: neãr Talcott. Greenbrier: near White Sulphur Springs.

## VACCINIACE 正.

## GAYLUSSACIA, H. B. K.

G. dumosa (Andr), T. \& G. Dwarf Huckleberry.

Damp, sandy soils. Kanawha: near CharlestonJames. Hardy: near Moorefield.
G. frondosa (L.), T. it G. Danglehery.

Low copses. Fayette: near Hawk's Nest-Jamer. Wehster: Upper Glade.
G. resinosa (Ait.), T. \&G. Huckleberry.

Wirt: near Burning Springs. Monongalia: near Laurel Hills. Marinn: near Forksburg. Fayette: near Nuttallburg-L. W. N. Frequent throughout the State.

## OXYCOCCUS, Pers.

O. macrocarpus, Pers. Cranherry. (Trreinium marroctrpon. Ait.) M. \&G.
Glades. Wrebster: Wrelsh, Long and Upper Glades. (This station will be lost in a few years, as drainage is beingr practised here to reclaim the land). Preston: Glade Farms, Morgan's Glade, Cranberry, Reedsville and Terra Alta.

## VACCINIUMI, L.

V. stamineum, 1. Deerberre.

Open wools. Wirt : near kurning Springs. Mineral: alung Knohby Mts-IW. Gilmer: near Glenville-Y. M. Fayette: near Nuttallhurg $\rightarrow$ L. II. N. Grant: near Bayard. Tucker: near Davis. Hardre: near Monefield- I . Merear: near Bluefield.
V. Pennsylvanicum, Lam. Dwarf Bluebery.

Dry hills. Gilmer: near Glenrille-V. M. Bronke: bear Wrigharg-M, \& (i)
V. vacillans, Soland. Low Blueberry:

Opens. Prooke: near Wellsburg-M. it (i. Fayette: near Nuttallburg, alt. 2000 ft --L. W. N.
V. corymbosum, L. Nwam, Blueberry. "Seedy Deerberry."

Swampy thickets. Preston : Kingwood Glades; Term Alta (thades. IW heter: Welsh, Tpper and Long Glades.

Iini. pallidum. (Ait.), Gray.
(ilady regions. Wehater: in Ltpreer (ilate:
V. erythrocarpon, Michi.

Pocahontas: summit spruee Knob, alt. 4800 ft .-A. 1). Hopkins.

## CHIOGENES, Salisb.

C. hispidula (L.), T. \& (i. (Trepping Snowbery.

Tucker: On rocke in the mist of Plackwater Fall.

## ERICACERE.

## GAULTHERIA, Kalm.

G. procumbens, L. Wintergreen. Tea-herry. Murntain Tea. L. WI. N.
('ool rieh woonls. Thronghont the montainous regioms of the state.

## EPIG AEA, 工.

E. repens, L. Thating Arhatus. M. if 6 [n moss of shady wouls. Monongalia, and Preston: along the Latuel Hills. (ribmer: near Cthenvillo-K. M. Minemat: near Kiysu-II, Kanawha: near CharlestonJamer. Farette: Near Nuttallhurg-L. IV. N.' Hardr: bear Moorefield- (i. Mereer: near Bluefield.

## ANDROMEDA, L.

A. ligustrina, Muhl. "seedy Buckberry." M. \& (').

Wet grounds. Preston: Morgan's Gilade and Terra Alta. Upshur: near Buckhannon. Webster: Upper, Long and Welch Glades. Nicholas: Collett's Cilade. Favette: hear Nutfallburg-L.. IV. N.
litic: pubescens, Giray.
Swampy place. liayette: near Nuttallhurg, alt. 2000 feet; a variation with a six-lobed corolla and six-celled orary -L. W. N.
A. Mariana, L. Stagger Bush.

Low yrounds, Wehster: Lomg (ilacle. Summers: neal Hinton.

## OXYDENDRUM, DC.

O. arboreum, DC . Suut Gum. M. \& (i)

Rich woods. Wood: near Leachtown.. Randolph: near Yalley Bend. Gilmer: near Glenville-V. M. Kanawha: near Charleston-James. Fayette: ner Nuttallburg L. W. N. Summers: along Greenbriei River and near Hinton. Marion: near Shinnston and Clements. Monongalia : near Beechwoods. Mercer: Beaver Spre and Ingleside.

## KALIMIA, I.

K. latifolia, L. Mountain Laurel. (atico-bush. Sporon-wood.

Dry ur moist hillsides and thickets; forming impenetrable masses in the mountains. Calhoun: Laurel Run. Upshur: Sand Run. Webster: Buffalo Bull Mountains. Kanawha: near Charleston-Barnes. Nicholas: near Beaver Mills. Monongalia: near Ice's Ferry and Cheat View. Preston: Laurel Hills, thence southward throughout the eastern counties. Fayette: near Nuttalliourg-L. W. N. Jefferson: near Harper's Ferry-M. if (t.
K. angustifolia, L.: sheep-laurel. Lamb-kill.

Hillsides. Calhoun: Laurel Run. Upshur: Sand Run. Nicholas: near Beaver Mills. Randolph: near Cheat Bridge. Hardy: near Moorefield.

> MENZIESIA, Smith.
M. globularis, Salis'..

Pocahontas: summit of Spruce Knob, alt. 4800 ft . -A. D. Hopkins.

## RHODODENDRON, L.

R. maximum, L. (ireat Laurel. James, L.W.N... V.M., M.\&G. Deep rich woods, forming the most dense and tangled thickets in the mountains. Western limit on the Great Kanawha River near Clarleston. Kanawha Countr. Common thoughout the e:tstern and nuthern portions of the State.
R. arborescens, Torr. simosth Azaleal.

Glades amd along mountain streams. Finette: near Nuttablbur- - L. W. N. Whester: Vpper and Wedeh Clades,
R. canescens (Michx.), Porter: Hoary Azaleal.

Hampshire: Mutton Run, near ('a"apon Spring*; Dillom: Run, nam Cacapon River.

Specimens in full leaf were noted at these points that differ widely from R. nudiflorum and R. calendulaceum, and seem, so far at least, to be this sperite.
R. viscosum (L.), Tort.
11. di (i.

Glades and cool ratines. Preston: Kingwood glades. Kanawha: near Charleston-Bames. Fayette: near Nut-tallburg-L. W. N. ; near Hawk': next-dames. Wehoter: near Long Glade.

「an' glaucum (Lam.), fialy. "('imamon Honevsuckle."
Rocky streams in the higher momntains. Tueker: along the Blackwater Fork of ('heat.

F̌r. nitidum (lursh,) Gray.
Clades. W'ebster: in Long and Upper (rlades.
R. nudiflorum (L.), Torr. "Wild Heneysuckle." Pinxter Flower. V. M., M. \& G., W., L. W. N..

Rocky place alung streans. Common throughout the northern, central, and eastern portions of the State. Mercer: near Princeton 6-8 ft. high.
R. calendulaceum (Michx.). Torr. Flaming Azalea.

Mountain woods. Monomgalia: Cheat View. Minaral: near Keyser-ll. Cilmer: near Glenville-V. M. Fayette: near Nuttallhurg, alt. 1800 ft . A fowers with a delicate fragrane quite distinct from that of other Azaleas-l. W. N. Summors: near lintom. Prestom: along the Laurel Hills. MeDowell: neal Elkhorn. Morew: near Princeton and Bluefield.
R. Catawbiense, Michx. Lilac-colored Laurel.

Deep rich mountain woods, rare. Pendleton: near Chery Coree. Fayette: near Nuttallburg, where it prefers
the face of cliff-L. W. N. (ireenhrier: Top of Alleghanies. Summers: near Hinton.

## CLETHRA, L.

C. acuminata, Michix. White Alder.

Wooded banks. Fayette: along the fiauley River at the base of the Ganley Mountains; near Nuttallorge, unom-mon-1. II. N.

PSEVA, Raf. (1809)
(chimaphila, Pursh 1814.)
P. umbollata(L.), Prince's l'ine.

Dry woods, rare compared with the next. Monongalia : along Decker's Creek ; and wn Lamrel Hills in pine thickets.
P. maculata (L.), "Pipsisseway." M. \& G.

Rich woods, frequent throughout the northern, eastern, and central counties. (ìilmer: near (ìlenville-V. M. Prof. Brown. Kanawha: near Charleston-James. Fayette: near Hawk's Nest, and Kanawha Falls; near Nuttall-burg-L. WV. N, Hardy: near Moorefielf-it.

## MONESES, Salisb.

M. grandiflora, Salisb. One-flowered Pyrola.

Deep, cold woods. Gilmer: near Glenville-V. M. Preston: along Laurel Hills. Monongalia: near Cheat View. and along Quarry Pun.

## PYROLA, L.

P. elliptica, Nutt. Shin-leaf. M. \& G.

Rich woods. Kanawha: near Charleston-James. Preston: near Terra Alta.
P. rotundifolia, L. Shinleaf.
M. \&

Sandy woodlands, freguent. Upshur: summit on Staunton Pike. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg-L. W. N. (rrant: near Bayard. Hardy: near Moorefield-(i.

## MONOTROPE $\neq$ <br> MONOTROPA, L.

M. uniflora, L. Indian-pipe. ('orpseplant. M. \& G.

Deep, rich woods. Wirt: near Elizabeth. Kanawha: ne:n Charleston-James. Gilmer: near Glenville-V. M.

Fayette: near Nuttallbury-L. W. N. Preston: near Terra Alta. Grant: near Bayard. Hardy: near Mourefield-G.

## HYPOPITYS. L.

H. Monotropa. Crantz. Pine sap. (Momotropu Hypopitys, L.)

Deep, rich woods. Wirt: near Elizabeth. Fayette: near Nuttallburg-L. W. N. (iihner: near Glenville-V. M.. Prof. Brown. Kanawha: near ('harleston-James. Itpshur: Summit on Staunton Pike.

## DIAPENSIACE ※.

> GALAX, L.
G. aphylla, L.

Woodlands. Fifyette: near Nuttallburg-L. W. N. Monomgalin: Dille Farm near Morgantown.

PRIMIULACE 佐.
DODECATHEON L.
D. Meadia, L. Shonting Star.

Rich woods. Mineral: near Keyser-II. Hardy: near Monrefiell- (t.

## TRIENTALIS, L.

T. Americana (Pers.), Pursh. Star Flower.

Damp cool woods. Mineral : near Piedmunt. Grant: near Bayard. Tucker: along Blackwater Fork of Cheat. Preston : near Terra Alta. Monongalia: near Laurel Point.

## STEIRONEMA, Raf.

S. ciliatum (L.), Raf.
M. © $G$.

Low gromeds and flitches. Randolph : on Rich Mountain, alt. $1610-212.5 \mathrm{ft}$; on Point Mountain. Grant: near Bayard. Gilmer: near G̀lenville--Prof. Brown. Fayette near Nuttallburg-L. W. N.: near Hawk's Nest. Tucker: néar Davis.
S. lanceolatum (Walt.). (iray:

Low grounds. Whod: near Kanawha Station. Lewis: along stone Coal Creek. Randolph: along Tygart's Valley Rirer. Monongalia: ('anup Eden.

Var. angustifolium (Lam.) (iray.
Low grounds. Monongalia: Sandy hanks of theat Rivel ahove C'amp Eden.

## LYSIMACHIA L.

L. quadrifolia, L. Loosestrife. L. W. N., V. M., H. \& (i. Moist soils. In all seections of the State visited.
L. terrestris (L.), B. S. P. ( I. stricta, Ait.)
Wet places. Farette: near Nuttallburg; in railroad ditches, infrequent-L. W. N. Ohio: on Bogg's Tsland-M. \& 9 . Wrood near Kanawhastation.
L. mummularia, L. Money-wort.

Escaped from cultivation. Wood: near Lockhart's Run, profuse.
L. thyrsiflora, L. Pyramidal Loosestrife.

Wet meadows near the mountains. Upshur: near Buckhamon. Randolph: along Tygart's Valley River. Morgan : near Hancock.

## ANAGALIIS, L.

A. Arvensis, L. Poor Man's Weather-glass.

Waste places. Tefterson: neat Bolivar Heights-M. if (

## SANIOLUS, L.

§. Valerandi, cur. floribundus, (H. B. K.), B.S. P. var: Americanus, Gray. Sandy places. Summers: shores of New River near Hinton.

## EBENACERE

DIOSPYROS, I.
D. Virginiana, L. Persimmom. Date Plum. M. \& Gi.

Thickets and opens. Wood: throughout. Fayette: near Nuttallburg-L. W. N. Crilner: near Glenville-r. M. Monongalia: near Morgantown. Wirt: along Little Kanawha River. Jackann: near Ripley. Lewis: along Leading Creek.

## STYRACACEX

HALESTA, Ellis.
H. tetraptera, L. "Shittimwond."

Banks of streams. Fayette: near Nottallhurg-L. II. N.; below (rauley Bridge. Gummers: mear Hinton, abundant.

## OLEACE正。

## FRAXINUS，L．

F．Americana，J．White Ash．L．IV．N．，M．\＆G．
Rich woorls．Frequent throughome the State．
F．pubescens，Lam．Red or Black Ash．
Low gromnds．Randolph：alung Tygart＇s Valley River．Upshur：near Lawrence．Fayette：near Nuttall－ burg－L．W．N．Wood：along the Little Kamawha River． Mason：near Point Pleasant．

F．viridis，Michx．f．（ireen Ash．
Along streams．Summers：near Hinton．Frequent throughout the State．

F．sambucifolia，Lam．Black Ash．
Wet woods．Wirt：along Straight Creek．Fayette： near Nuttallburg，rare－L．W．N．Randolph：on Point Mountain．Wehster：Buffaln Bull Mountain．Monongalia： near Ice＇s Ferry．Summers：Hinton．

## CHIONANTHUS，L．

C．Virginica，L．Fringe Tree．
River banks．Jackson：near Sandy and Ripley．Fuy－ ette：near Nuttallburg，plentiful－L．W．N．；along Gauley River near Gauley Mountains．Summers：near Hinton． Monongalia：along Tibb＇s Run．

## LIGUSTRUM，L．

L．vulgare，L．Privet．
Escaped from cultivation to waste places．Kanawha： near Charleston－Barnes．

## APOCYNACE 䓊．

## APOCYNUM，L．

A．androsæmifolium，L．Spreading Dog＇s－bane．M．\＆G． Meadows，fields，and bordere of thickets．Randolph： near Cricard P．O．；near Yalley Heal．Greenbrier：near White Sulphur Springs．Mason：near Point Pleasant：near Brighton；near Buffalo．

A．cannabinum，L．＂Rhemmatiom wred．＂Indian Hemp．＂Wild Cotton．＂M．\＆G．
Moist grounds，fields，and banks of streams．Frequent or common throughout the State．

Fir. pubescens (R. Br.), DC'. Hardy: near Mooretteld- $(i$.

## ASCLEPIAS, L.

A. tuberosa, L. Pleurisy-root.
M. it (i.

Fields and meadows. Wond: near leachtown. Monongalia: near Morgantown and at Camp Eden. Lewis: along Leading and Stone Coal Crecks. Webster: near Long Glade. Fayette: near Nuttallhurg-L. W. N.; ncar Kanawha Falls-James; near Gauley Bridge. Jackson: near Fisher's Point. Gilmer : near (xlenville-V. M. ; Prof. Brown. Doddridge: near Smithton. Jefferson: near Shenandoah Je. Berkeley: near Martinsharg. Hardy: near Moorefield -G.
A. rubra, L .

Damp wooks. McDowell: near Elkhom.
A. purpurascens, L. l'urple Milk-weed.

Damp, grounds. Fayette: near Nuttallburg-L. W. N.; near Quinnimont. Hardy: near Moorefield-G.

A variegata, 1.
Dry Woods. Wirt: near Elizabeth. Upshur: near School House Summit. Hardy: near Moorefield-G. Fayette: near Nuttallhury-L. M. N.
A. incarnata, L. 太wamp Milk-weed.
M. \& $\mathrm{G}^{2}$.

Wet places. Wirt: near Burning Springs. Gilmer: along Tanner's Fork. Randolph: along Tygart's Valley River, alt. 1963-2200 ft. Fayette: near Nuttallburg-L. WF. N. Monongalia: near Stewartown. Summers: near Hinton. Kanawha: near ('harlestor. Marion: near Worthington.

Vin: pulchra (Ehrh.), Pers.
Hardy : near Momefield-(i.
A. Syriaca, L. Milk-weed. A. 'omuti, Dec. G., I. M., M. \& G.

Fields and roadsides. Common throughnut the State. eren in the wildest portions.
A. exaltata (L.), Mruhl, Poke Mrilk-weerl. A. phyfolumemites, Pursh. M. \& G.

Moist copses. Randolph: near Valley Bend ; on Point Mountain, alt. 1963-3300 ft. Preston: near Terra Alta. Grant: near Bayard. Tucker: near Davis. Fayette: near Nuttallburg-L. W. N.
A. quadrifolia, L. Four-leaved Milk-weed.
11. \& G.

Open woorlands. Mineral: near Keyser-II. KanaWha: near Charleston--Barnes. Gilmer: near GlenvilleV. M. Fayette: near Nuttallburg-L. W. N. Monongalia: near Maple Run-M. H. Brown. Summers: near Hinton. Hardy: near Monrefield-(i.

## ACERATES, Ell.

A viridifiora (Raf.). Ell. (ireen-flowered Milk-weed.
Berkcley: near Martinsburg-M. \& G. Mineral: near Keyser. Jefferwon: near Charlectorm. Jackan: along Limestone Rirlge.

## GONOLOBUS, Michx.

G. lævis, Michx.

Climbing over weeds and fencer. Mason: near Point Pleasant. Putnam: near Buffalo.

## LOGANIACE $\mathrm{F}_{\mathrm{E}}$.

## MITRREOLA, L.

M. petiolata, Torr. © Gray.

Dampsoil. Fayette: nerr Nuttallburg; rare-L. W. N.

## GENTIANE स

## SABBATTA, Adans.

S. angularis (L.). Pursh. Centrury.

Kich soil. Jackson and Wood counties, frequent. (filmer: near Glenville-I'. M. Fayctte: near Nuttallburg -L. IV. N. Monongalia: near Easton. Summers: near Hinton. Harrison: near Lumberport. Marion: near Clements.

## GENTIANA, L.

G. quinquefolia. L. Four-leaved Gentian. (G. quinqueftora, Lam.) Opens. Dowlidge: noar Long Run. Hardy: near Momefich- F .
G. Andrewsii, (Griel). Andrew: Gentian.

Moist woorls. Fayette: near Nuttallburg, alt. 2000 ft.-L. IV. N.. Momongalia: near Cheat View. Preston: near Reedsrille.
G. Saponaria, L. Soapwort. Gentlan.

Moist woml:. Fayette: near Kanawh Falls-Selly.
G. linearis, Frocl.

Boggy places. Preaton: near Terra Alta and Mlorgan's ctade.

## OBOLARIA, L.

O. Virginica, L. Pennywort.

Moist woods. Gilmer: nəar (ilenville-V. M. Fayatte: near Nuttallhurg-L. W. N. McDowell: near Elkhorn.

## POLEIMONIACE $\mathbb{F}^{\circ}$

## PHIOX, L.

P. paniculata, Var. acuminata (Pursh.), Chapm.

Monroe: banks of (treenbrier river--L, W. N.
P. maculata, L. Wild sweet Willian.
(irassy woodlauds along streams. Wirt: above Burning Springs, plentiful. Upshur: near Lorentz. Randolph: along Tygart's Valley River from Beverly to Valley Head. Hardy: near Moorefield-G.
P. amcena, Sims.

Dry open woods. Fayette: near Nuttallburg, fre-quent-LL. W. N.
P. reptans, Michx.

Deep damp wouds. Gilmer: neat (ilenville-V. M. Grant: near Bayard. Tucker: near Daris. Filyette: near Nuttallburg-L. W. N. Mercer: near Bluefield.

> P. divaricata, L. Rocky woods. Monongalia: near Morgantown and Stumptown. Gilmer: near Glenville-V. M., Prof. Brown. Hardy: near. Moorefield-G. Fayette: near Nuttallhurg-L. W. N. Mercer: near Bluefield.
P. sublata, L. Muss Pink.

Dry rocky places. Mineral: near Keyser-W. Fayette: near Hawk's Nest--Tames. Monongalia and Marion : near the F. M. \& P. R. R. Hardy: near Monefield-ab. Mercer: near Blucfield.

## POLEMONIUM．L．

P．reptans，L．（ireck Valerian．
M．\＆ C ．
Damp，woods．Monongalia：in Brands：Woods near Easton，where it is used by the people of that neighborhood as a stomachice amel tonic．Rich woods，near Morgantown． Gilmer：nc：n（ilenville－－）．M．

巴̈．cæruleum．L．Jacots＇s Ladder．
Moist opens．Preston：m：ar（rambery inmmit．－N． if $(i$.

## HYDROPHYLLACER

## HYDROPHYLLUM，L．

H．macrophyllum，Nutt．Small－leaved Water－leaf．
Rich wouds．（ifhner：near（ilenville．－V．M．Wetzel： near Burtun．－．M．が

H．Virginicum，1，Water－leaf．
Rich wools．Momongelia and Marion：along the Alomongahela river．Ohin：near Theeling．－M．\＆G．Hampr thire：near Rommer．

H．Canadense，L．C＇mati：m IV：ater－leat．
Damp rich woods．Monongalia and Marion：along the Monongahela River．Fayette：near Kanawha Falls－ James．Ohin：near Whoeling．M．©（t．

H．appendiculatum，Michx．
Ohio：Thomas Hill，near Wheding－．－II．©（t．Miner－ al：near Kerser－II．Grant：near Bayarl．Tucker：near the Falls of Black water．

## PHAOELIA．Jus．

P．bipinnatifida，Michx．
Rich soil．Fayette：near Nuttallhurg．on or among damp monsy rockr－L．W．N．

P．Purshii，Buckley：
Moist wooded bankr．Monongatia：banks of Decker＇s （ireck．Minemal：near Keyser－IV．Cibmer：near Glen－ ville．－V．M．

P．parvifloia，Pursh．
Shaded hanks．Falotte：near Nottallburg－L．W．N．

## ASPERIFOLI※.

CYNOGLOSSUIM, L.
C. officinale, L. Hound's Tonguc. "Door-hame." M. \& G.

Waste places and roadsides. Jefferson: near Shenandoah Je. Gilmer: near Glenville-Prof. Brown. Hardy : near Moorefied-a. Mercer: generally fresuent.
C. Virginicum, L. Wild Comfrey. II. de G.

Wood openings. Cathoun: near White Pine. Grant: near Bayard. Preston: near Terra Alta. Monongalia: near Morgantown (itlmer: near (ilenrille-V. M. Summers: near Hinton.

## ECHINOSPERIIUM, Sw.

巴. Virginicum (L.), Lehm. Beggar's-lice. (i., L. IV. N., V. M., II. \& G. Borders and thickets. Frequent throughont the state.

MERTENSIA, Roth.
M. Virginica (L.), DC. Virginian ('owslip. Lang-wort. Blue-bells, II. \& G.

Rich woods. Monongatia and Narion; along the Monongahela River. Lewis: along Stone Coal Creek. Wirt: near Elizabeth. Upshur' near Laurentz. Gilmer: near Glenville--V. M., Prof. Brown. Harty: near Moorefield -(i.

ONOSMODIUM, Michx.
O. Carolinianum, $D C$.

Summers: banks of New River near Hinton.

## MYOSOTIS, L.

M. palustris (L.), Relh. Forget-me-not.

Damp places. Jefferson: near Harper's Ferty - M. \& G.

> SYMPHYTUM, I.
S. officinale, L. Comfrey.

Waste places. Cilmer: near Glenrille-V. M. Mer(er: near Ingleside.

## LITHOSPERIMUIM, L.

L. arvense, L. C'orn ('romwell.

Fields. Ohio: near Wheeling-M. \& G. Fayette: near Nottallburg-L. IV. N.
L. latifolium, Michx. Stone-sterl.

Ohio: Cowan's Hill near Wheeling-M. \& G. Fayette: near Nuttallburg; rare, not found in 1891-L. W. N. Monongalia: near Little Falls--K. D. Walker.
L. canescens (Michx.), Lehm. Puccoon.
()pen woods. Mineral: on Knobley Mountain-W. Hardy : near Old Fields-A .D. Hopikins: and Monrefield-(i. Hampshire: near Romney.

## ECHIUNE, L.

E. VUlGare, I. "Bhue Weed." "Blue Tevils." "Blue Thistle." "Blue Stem." M. \& G. Fields and waste ground. Jefferson: abundant especially near Charlestown, where there are many fields absolutely blue with the plant. Dr. Gray says of his trip through this country: "From the moment we entered the ralley, we observed such immense quantities of Echinn rulgare, that we were no longer surprised at the doubt expressed by Pursh whether it were really an introduced plant;" near Shenandoah Junction; Shepherdstown and Harper's Ferry. Randolph: along Tygart's Valley River; near Huttonsville, and up Riffles Creek. Berkeley: near Martinsburg, plentiful. Morgan: near Hancock, Cacapon and Orleans X Roads. Mineral: near Keyser, and Piedmont. Fayette: near Kanawha Falls-James; near Nuttallburg-L. W. N. Kanawha: opposite Coalburg. Summers: near Minton. Jefferson: near Summit Point. Greenbrier: near White Sulphur Springs. Hardy: near Moorefield.

Alsn reported from: Jefferson: near Ripon, Summit Point, Middleway and Kabletown. Berkeley : near Oakton and Hedgesville. Morgan: near Rock Gap. Hampshire: near Slanesville, Concord, Pomney, Three Churches, Dillon's Run, Higginsville, Sedan, Purgitwiville and Springfield. Mineral: near Blaine. Hardy : near Moorefield, Wardensville and Old Fields. (irant: near Medley, Greenland and Petersburg. Tucker: near Hendricks and St. Georges. Pendleton: near Framklin and Upper Tract. Pocahontas: near Lobelia. Greenbrier: near Williamsburg and Fort Spring. Summers: near Takcott. Norcer: near Princeton and New Hope. MeDowell: near Squire Tim. Wrood: near Itaverly. Lewis: near Vadlis and Aberdeen. Barbour: near Old Field. Webster: near Replete. Wetzel : near Endicott. Doddridge:
near smithton. Marshall: near Lowdenville. Roane: near Clio and Walnut Grove. Kanawha: near T'omadr. Taylor: near Thornton; and Clay: near Valley Fork,

## CONVOLVULACERA.

## IPOMCEA, L.

I coccinea, h. Fiaulet Moming-glory.
Waste grounds. Monongalia: near Morgantown. Hasom: near Point Pleasant.
I. hederacea; Jicy. ly-leaval Morming-glory.

Waste places. Mason: sandy banks of the Ohio near Point Pleasant. Fayette: near Nuttallburg, banks of New River-L. W. N. Berkeley: near Martinsburg. Hardy: near Moorefield-(i.
I. purpurea (L.), Lam. Horning-glory.

Fields, cultivated gromnds and waste placer. Mineral: near Keyser-- IV. Fayette: near Nuttallburg-L. W. N. Wood: near Lockhart's Run. Monongalia: near Morgantown. Jackson: near Sandyville. Mason and Putnam: an abundant weed in com fields.
I. pandurata, (L.), Meyer. "Wild Sweet Potato." MI. is (4. Fields, roadsides, and waste places. Monongalia: near Stewartown, Morgantown and Glenville. Marion: near Houghtown, Opckiska, and Fairmont. Wrood: near Kanawha Station and Lockhart's Run. Gilmer: near GlenvilleV. M. Fayette: near Nuttallburg-L. IV. N. Greenbrier: near White Sulphur Springs. Monroe: near Alderson. Mason: near Point Pleasant. Sulumers: near Hinton. Hardy : near Moorefield-- G .

Reported as a troublewme weed, from the following lucalities: Marion: near ('inton, Farmington. Barracksville. Eldora, and Worthington. Taylor: near frafton. Harrison: neall Clarksburs, Brideport, Crool Hope, Mt. Clair, and Wrallaee. Hampshise: near Slanerville, Concord, Three Churches, Bloomery, Dillon's Rum, and Springfield. Jefferson: near Aummit loint. Ghemanduah Je., Middleway, and Kabletoriv. Jackson: near Fonglase, Lone Cedar, Grass Lick, Garfield, Wilding, Dilarille. Belgrove. and Kentuck. Ohio: near Alums frowe Hancock: near New Cumberland. Lincoln: near Hamin. Ifoorl: near Wharely. Belleville. Tyner. Jerry's Ron, Fountain Apring. Blemerhassett, Murphy's Mills, Deer Wralk, and Rockpott. Lewis: near Vadis. and Aberde Mo IVirt: hear Burning Springs, Moris, Elizaheth, and Reedy Ripple. Summers: near Forest Hill, Talcott, Clayton, and Indian Mills. I'restom: near Masontown,
and Reedsville. Wetzel: nerr Endicott, Pine Cirove, New Martinsrille, aml Blake. Mineral: near Patterson's Depot, and Piedmont. Berkeler : near Oakton, Martinsburg, and Gerardstown. Wehster: near Replete. Ritchie: near Ritchie C. H., and Highland. Nercer: near Princeton, Concord Church, Bramwell and New Hope. Cabell: near Union Ridge and Milton. Kanawha: near Pocotaligo, Blandon and Gazil. Monroe: near Cashmere, and Johnson's X Roads. Wayne: near Adkin's Mills, and Stone Cual. Randolph: near Florence. Doddridge: near Smithton, Center Point, and Leorpold. Fayette: near Fayetterille. Braxton: near Bulltown, Lloydsville, Frametown, and Newville. Tyler: near Wick, and Long Reach. Roane: near Newton, Looneyrille, Clio. Reedy, Walnut Grove and Peneil. Upshur: near Erergreen, Kamawha Head, and Orerhill. Barbour: near Pepper. Marshall: near Meighen, and Welcome. Grant: near Medley, and Creenland. Raleigh: near Egeira, and Raleigh C. H. Greenbrier: near Traut Taller, and White Sulphur Springs. McDowell: near Squire Jim. Mason : near Maggie. Taylor: near Thornton, and Meadland. Brooke: near Wellsburg. and Fowler's. Pleasants: near Schultz. Putnam: near Carpenter's. Hardy: near Old Fields. Clay : near Valley Fork.
I. 1acunosa, L.

Fayette: sandy banks of New Rirer near Nuttallburg -L. W. N. Snmmers: near Hinton.

## CONVOLVULUS, L.

C. spithamæus. 1.

Rocky anil. Mineral: near Keysur-W
C. sepium. L. Hedge Bindweed. MI. © G

Alluvial soils. Monongalia: near Little Falls; and along Decker's (reek. Mason: near Point Pleasant.

Trir. repens (L.), Gray.
Rocky river hanks. Fayctte: banks of New River near Nuttaliburg-L. IV. N. Monongalia: helow Morgantown.

## CUSCUTA, L.

C. Trifolit, Weihe. ' 'lover Dorlder.

Parasitic on Clorer. Greenhrier: mear White Sulphur Springs.
C. Gronovii, Willd. Wodder: G., L. II. N., M. \& G.

Parasitic on grasser, sedges, and lon weeds. Frequent in wet places throughout the State.
C. glomerata, ('hoisy'

Parasitic: on ('ompmsitar. Monomgalia: near Litule Falls.

## SOLANACE A. $^{\text {S }}$

## SOLANUM, L.

S. Dulcamara, L. Bitter-swept.
W., M. \& (i.

Damp phaces. Frequent throughout the State, hat not so murh an the next.
S. nigrum, L. Common Nightshade. (i., I. IV. N., V.M., M.\& (i. Ficder radsedes, and cultivated grounds. Commom thronghont the State.
S. Carouinense, 1. Howio Nettle. "Radical Wrerd." M. di. Beconing a detestahle weed in fields and forests. Cahoun: along Leading Creek. Wood: near Kanawha Station. Wrirt: near Elizabeth. Randolph: near Cricarl P. O. Wehster: on Buffalo Bull Mountains. Nicholas: near Beaver Mills. Gilmer: near. (flenville-I. M. Fayette: near Nuttallburgh-L. W. N. Mronongalia: near lee's Ferry. Cabell: near Barhoursville. Greenbrier: near White Sulphur Springs. Monroc: near Alderson. Summers: near Hinton. Kanawha: near Charleston. Mason: near Point Pleasant. Jefferson: near Flowing Springs, and Shepherdstown. Mer-cer:-near Ingleside.

Reported as a troublesme weed from: Harrion: near Clarksburg, Wilsonburg, Good Hope, Mt. Clair, and Wrallace. Ohio: near Elm Grove and West Liberty. Wood: near Waverly, Belleville, Deer Walk and Kanawha Station. Hardy: near Moorefield and Wardensville. Grant: near Medley and Petersburg. Jefferson: near Monre's and Kabletown. Summers: near Forest Hill and Talentt. Wetzel: near Eudicott, Pine Crove, New Martinsville and Blake. Mineral: near Patterson's Depot, and Blaine. Wirt: near Burning Springs, Morris, Evelyn, and Reedy Ripple. Jackson: near Grass Lick, and Odaville. Cabell: near Union Ridge, and Barbourville. Taylor: near Knottsville. Wayne: near Stone Coal, and Adkin's Mills. Doddridge: near Smithton, and Center point. Marshall: near Knoxrille, and IVelcome. Braxton: near Bulltom, and Tate (reek. Berkeler: near Hedgesville. Mercer: near Bramwell, and New Hope. Roane: near Loonerville, Clio, Reedy, and Peneil. Pocalhontas: near Lobelia. Kanawha: near Blandon. (treenbrier: near Trout Creek. McDowell: near Squire Jim. Mason: near Maggie. Brooke: near Wellshurgh. Marion: near Mannington. Taylor: near Grafton. Upshur: near Kanawha Head, Overhill, and Hemlock. Hampshire: near

Higginstille and Springfield. Trler: near Long Reach. Webster': near Welsh Glade. ('lay: near Valley Fork.

## PHYSALIS, L.

P. Philadelphica, Lam.

Rich opens. Fayette: near Nuttallhurg-L. W. N.
P. angulata, 1. (fround Cherry.

Open rich grounds. Grant: near Bayard. Gilmer: neas (flenville-I. M. ond: near Kanawha Station.
P. pubescens, L.

Low grounds. Fayette: near Nuttallburg-L. W. N. Ohio: near Whceling-M. \& G. Jefferson: near Shepherdstown. Mason : near Point Pleasant.
P. Virginiana, Mill.

Light sandy soils. Monongalia: near Beechwoods. Jefferson: near Shepherdstown. Jackson: near Ripley. Hardy: near Moorefield-C.
P. viscosa, $L$.

Low grounds. Ohio: near Wheeling-M. if G. Hardy : near Monrefield-G.
P. lanceolata, Michn.

Dry opens. Jackson: near Ripley. Wrood: near Sharktown.

PHYSALODES, Bohn, (1760) (Nicandra, Adans, 1763 )
P. PHYSALOIDES (L.) Appleof-Peru.

Waste grounds. Lewis: near Weston. Mineral: near Piedmont.

## LYCIUII, L.

I. VULGARE (Ait), Dun. Matrimomy Vine.

A frepuent and persistent escape. Berkeley: near Martinshurg. Jefferson: near shepherdstown. Mason: hankis of the Ohio near Point Plemant.

> DATURA, L.
D. STRAMONIUMI L. "Jimson-wrerl." Jamestown-weed. Stinkwerl. L. W. N., V. M., M. W' G., (i Wiate placers. A common weed throughout the State.
D. tatula, L. Purple Thom-apple. L. W. N., V. M., M. \& (i. With the last. Common theroghont the State.

## PETUNIA, L.

P. violacea, Hook.

Escaped to waste grounds. Monongalia: near Morgantown, common, where it persists annually. Mason: men Point Pleasant. Jefferson: near shepherdstown.

## SCROPHULARINEX.

## VERBASCUM, L.

V. Thapsus, L. Mullein.
L. W. N., V. M., M. ※ it Old fields and pastures. Common throughout the State.
V. Blatraria, L. Moth Mullein. M. $G$ Fields and waste places. Wirt: along the Little Kanawha River. Ctilner: near (thenville-V. M. Fayette: near Nuttallburg-L. IV. N. Monongalia and Marion, common. Grant: near Bayard. Jefferson: near Charlestown. Berksley: near North Mountain. Elsewhere frequent.
V. Lychnitis, L. Yellow Moth-mullein.

Fields and wastes. Kanawha: roadside, up \& Mile Creek. Mineral: opposite Cumberland, Md.

## LINARIA, Juss.

L. vulgaris, Mill. Toad Flax. "Devil's Flax." "Wild Flax." "Indian Hemp." "Impudent Lawyer." M. \& G. Fields, roadsides and waste places. Monongalia : near Stewartown. Jefferson: near Charlestown and Shenandoah Junction. Jackson: near Sandyrille. Berkeley: near North Mountain. Mineral: near Piedmont and Geyser. Hardy: near Moorefield-G.

Also reported as a weed from: Harrison: hear Good Hope. Ohio: near West Liberty. Wood: near Jerry's Run, Fountain Spring, Blennerhassett, and Rockport. Jefferson: near Molers. Wetzel: near Endicott. Mineral: near Piedmont. Wert: near Burning Spring, Morris and Reedy Ripplo, Jackson: near Lone Cedar; Garfield, and Telgrore. Cabell: near Union Ridge. Taylor: near Thornton and Headland. Wayne: near Stone Coal. Marshall: near St. Joseph. Berkeley: near Martinsburg. Greenbrier, near White Sulphur Springs. Mason: near Grimm's Landing and Maggie. Upshur: near Kanawha Head and Orerhill. Tyler: near Long Reach. Webster: near Welsh clade.

Preston: mear Tummelton amd Terra Alta. Hancock: near New C'umberland and Fairview. Ritchis: near Ritchie C. H. Monme: near Pickatwy, Jorgan: near Rock Gap. Turker: mear Twats. Raleigh: near Raleigh C'. H.

## SCROPHULARIA, L.

S. nodosa, L., rur. Marilandica (L.), (imy. Fighort. II. が (f Fieds and waste plates. Monongala: near Morgan-
 near White sulphursmings. Kanawh: near (harlestom.

## COLLINSIA, Nutt,

C. verna, Nutt.

Moist mil. (iilmer: near (flenville-V. M.; Prot. Brown. Ohio: on Wheeling Hill-M. \& (t. Momongalial: man (ansuille.

## CHELONE, L.

C. glabra, L. Snake Head.

Wet places. (iilmer: near Glemville-r. Mr. Fayette: near Nuttallıurg. ancommon-L. W. N. Wirt: near Burning spring.
C. obliqua, L.

Wet places. Randolph: atong ('heat Rivel' near Cheat Bridge. Monongalia: ner Camp Eden.

## PENTSTEIMIMON, Mitch.

P. hirsutus(L), Willal. Beari-tongue. (P. pubesecns, Fol.)

Dry or rocky places Kanawha: near CharlestonBarnes. Gihner: near flemville-T. M. Cabell: near Bar= loursille-James. Hardy: near Moorefield-( Hampr shire: near Dowis Gitlly.
P. lævigatus, soland.
 -1.11 . N.

Jirr. Digitalis(Nutt.) (ilaly.
Rich soil. Monongalia : along the Menongahela Riv(1. frequent. Woorl: near Kanawha Station. Fayete: near Kanawha Falls-.James. Harly: near Ionrefield. Hampshire: near Docis (inlly.

## MIMIULUS, L.

M. ringens, L, Monkey Flowers.
II. if

Wret places. Upshur: along Stone Cobl 'reek. Fayette: near Kanawhar Falls--dames; near Nuttallhug-L. IV. N. Randolph: along Tygarts Vabley River. Frembent: throughout the State.
M. alatus, Ait. Winged Monkey Flower.

Wet places. Greembrier: near White sulphmenting. Putnam: near Bulfato.

## GRATIOLA, L.

G. Virginiana, L. (imatiola.
L. W. N., M. it (i. Ditehes. Common throughont the state.
G. sphærocarpa, EH.

Damp places. Fayette: noar Nuttallhure, on mossy bank in bed of creek.--L. IV N.

## ILYSANTHES, Raf.

I. gratioloides(L), Benth. Fakse Pimpernel. (J. ripripia, Raf.)

Wet places. Fayette: near Kanawha Falls-.James. Along Little Kanawha River-M. if (t.

## VERONICA, L.

V. Virginica. L. Culver's Physic.

Rich woods and borders. Webster: Long Glade. Jackson: near Sandyrille. Fayette: near Nuttallburg. L. W. N.
V. Anagallis, !. Water spedwell.

Banks and ditches. Fayette: near Kamawhal FallsJames.
V. Americana, Schir. American Brooklime. "Wallink." Il. \& G.

Brooks and ditches. Monongalia: the Flats near Morgantown. Randolph: on Point Mountain, alt. $3,050 \mathrm{ft}$. (where it is called "Wallink," and is used internally to bring out rashes.) Webster': near Lodism, alt. 2,000 ft. Mercer: near Beaver Spr.
V. officinalis, 1. Sperdwell. "Cyisy" Wred." M. AG.

Rich, leep woods and opens. Randolph: on Rich Mountains. (iilmer: near Glenville-I. M. Kanawha: near Charteston--James. Farette: near Nuttallhurg-L. IV. N. Monongalia: along Decker's Creek. Greenhrier: near

White sulphur surings ; and frequent throughout the State. Mercer: near Beaver Spro, and Bluefietd.
V. serpyllifolia, L. Thyme-leaved Specdwell.

Roadsides, fields and lawns. Monongalia: near MorGatown. Gilmer: near Glenville-V. M. Fayrette: near Nuttallburg-L. IV. N. Ohio: near Whecling-M. \& G. Mercer: near Pluefield.
V. peregrina, L. Neck Weed. Purslane-xperdwell.

Waste placers. Monongalia: near Morgantown. Fayctte: near Nuttallhurg-L. W. N. Ohio: Thomas Hill. near Wheeling-M. if (i.
V. arvensis. L. Com speedwell.

Cultivated grounds. (iilmer: near (ilemville-V'. M. Ohin: Thomas Hill, near Wheeling-M. \& G. Fayette: near Nottallburg-1. W. N.

## BUCHNERA, L.

B. Americana, L. Blue Hearts.

Moist. sandy ground. Putnam: near Buffale.

## GRIRARDIA, L.

G. pedicularia, L.

Hardy: near Moorefield-G. Fayette: near Nuttall-burg-L. W. N.
G. tenuifolia, Yahl. Slender Gerardia.

Dry soil. Mineral: near Keyser-II. Fayette: near Nuttallburg, alt: 2000 ft -L. L. H . N. Randolph: near Elkins.
G. Virginica(L.), B.S.P. Oak-leaved Cerardia. G.quercifolin, Pursh. Open woods. Fayette: near Nuttallburg-L. W. N.
G. flava, L. Flase Foxglove.

Open woorls. Wood: near Leachtown. Fayette: near Kanawha Falls and Hawk's Nest-James; near Nuttallburg -L. IV. N. Gilmor: near Glenville-V. M. Hardy: near Mooretield-(i.
G. lævigata, Raf.

Oak woods. Fayette: near Nuttallburs. alt. 2000 ft . -L. IV. N.
G. auriculata, Michx.

Fields. Monongatia: near little Falls, with pure white flowors.

CASTILLEJA, L.f.

C. coccinea(L.), Npreng. Painted Cup).

Sandy soils. Monongalia: alnog the Monongahela at Utfington, and below Morgantown. Randolph: near Valley Head. Preston: near Terra Alta. Hampshire: near Romney.

## PEDICULARIS, L.


#### Abstract

P. Canadensis, L. Louse-wort. M. d G.

Copses, woods and hanks. Preston : near Terra Alta. Fayette: near Nuttallburg-L. W. N. (ilmer: near Cilen-ville-V. M. Greenbrier: near White Sulphur Springs. Summers : near Hinton. McDowell : near Elkhorn.


## MENLAMPYRUM. L.

M. lineare, Lam. Cow-wheat.

1I. Americaumm, Michx.
Rich, open woods. Preston: near Terra Alta.

## OROBANCHACE

## EPIPHEGUS, Nutt.

E. Virginiana(L), Bart. Beech-drops. Cancer-root.

Parasitic upon the roots of the beech. Wirt: near Elizabeth. Gilmer: near Glenville-K. M. Fayette: near Nuttallburg-L. W. N. Monongalia: near Morgantown.

CONOPHOLIS, Wallr.
C. Americana(L.f.), Wrallr. Cincer Root.

Oak woods. Among fallen leaves. Monongalia. along Decker's Creek and near Little Falls. Gilmer: near Glenville- ${ }^{\top}$. M. Fayette: near Nuttallburg-I. IV. N. MelDowell: near Elkhorn. Merrer': near Blueficld.

## APEYYLON, Mitch.

A. uniforum(L.), Grat. One-flowered C'ancer-root. M. if (i.

Damp woodlands and opens. Monongalia: near Morgantuwn. Wiart: near Elizabeth. (ilmer: near GlenvilleV. M. Fayette: near Nuttallhurg-L. II. N.

## BIGNONIACEA.

## TECOMA. Juss.

T. radicans (L.), Juss. Trumpet-Creeper'. M. \& (i. Moist soil. Monongalia: near Little Falls. Marion : near Fairmont. Fayette: near Nuttallburg-L. IV. N. Summers: near Hinton. Mason: near Point Pleasant: and Preguent throwhout the state.

## CATALPA, Juss.

C. Bignonioides, W'alt. Tmdian Bean Tree. "('atawha." M. it (i.

River banks. Marion: near Catawba, (a place named after this tree. which would remder it apparent that the tree was native here, which 1 hold to be true). Wood: near Leachtown. (tilmer: near DeKalb and along Leading Creek. Monongalia: near Ice's Ferry and Stewartown. Wirt: near Elizabeth. Upshur: along lig Sandy Run, alt. 1827 ft . Mason: near Point Pleasant.

## ACANTHACER

## RUELIIA, L.

R. ciliosa, Pursh.

Margins of woods. Wood: near Leachtown. fliirt: near Elizapeth. Calhoun: near Gantsville. Gilmer: near DeKalb. Lewis: along Stone Coal Creek. Upshur: near Laurentz. Nicholas: along the (tauley River. Kanawha: near Camellton.

## DIANTHERA, L.

D. Americana, L. Watcr Willow. L. W. N., M. \& (i. In streams. Common throughout the State.

## VERBENACE

## VERBENA, L.

V. officinalis, L.. Vervian.

Jefferson: near Harper's Ferry-M. it (i.
V. urticæfolia, L. White Vervian. . L. W. N., M. di (i.

Waste or open grounds. Common throughout the state.
V. hastata, L. Bhe Vervian. I. II. N. Damp wate grommd and madsides. Fregnent throngher the state. In some places rave.
V. angustifolia, Michx,
11. d゙ (i.

Roadsides and waste phaces. Throughout Jefferson County. Hardy: man Moorefodd-i.

## LIPPIA, L.

L. lanceolata, Mifix. Frog Fruit.

Waste gromads. Ohio: near Wist Wheeling-M. de (i. Mason: Banks of the Ohio River near Point Pleasant.

## PHRYMA, L.

P. Leptostachya, L. Lop-seed. N. \& (i.

Rich apen woods. (ireenhrier: near White suphur Springs. Fayette: near Kanawha Falls-James; near Nut-tallburg-L. IV. N. Kanawha: near Charleston. Mason: near Point Pleasant ; and frequent throughout the State.

## LABIAT正.

## ISANTHUS, Michx.

I. brachiatus(L.), B. S. P. False Pemnyroyal. I, cerrmheus, Michx. Ninem: opposite C'umberland, Mal.-M. if fr.

## TEUCRIUM, L.

T. Canadense, L. Germander. Wond Sage.

Low grounds. Wood: ditches near Kanawha Station. Jackson: near Sandyrille. Gilmer: near Glenville-V. M. Cabell: near Barborsville-James. Fayette: near Nuttallhurg. profile of expanded flower resembles a deer's head-L. II. N. Monongalia: near Ice's Ferry. Hardy: near Moore-field-( i .

## COLLINSONIA, L.

C. Canadensis, L. Rich-weed. Sitome-root.

Rich, damp wools. Randolph: along Stamton pike up, Riffes Creek, alt 2700 ft . Gilmer: near (rlenrille--V. M. Fayette: near Nattallhurg, some plants with clliptical leares, acute at both ends 10 in . wide hy $3 \frac{1}{2}$ inches longL. IV. N. Monongalia : near Camp Eden. McDurrell: near Elkhorn.

## PERILLA, L.

P. ocymoides, L., cul. CRISPA.

Waste ground. Monongaliat: near Morgantown.

## MENTHA, L.

M. viridis, L. Spearmint.

Low grounds and damp places. Frequent, eren at the higher altitudes.
M. piperita, L. Peppermint. M. \& G.

A freguent escape along springy lorooklets. Gilmer: along Tanner's Fork. Randolph: on Point Mountain, alt. 3050 ft . Jackson: near Sandyville. Gilmer: near Glen-ville-V. M. Fayette: near Nuttallourg, alt. 2000 ft -L. II. N. Summers: near Hinton.
M. sativa, L. Whorled Mint.

Monroe: hanks of Greenbrier River-L. W. N.
M. Canadensis, L. Wild Mint.

Wet places. Randolph: along the road up Point Mountain, alt, 2325 feet. Fayette: near Nuttallburg, rare -L. W. N. Summers: near Hinton.

## LYCOPUS, L.

L. Virginicus, L. " Bugle Weed.
L. W. N.

Low. Wet grounds. Common throughont the State.
L. sinuatus, Ell.

Low, wet ground. Mason: near P'oint Pleasant.

## CUNILA, L.

C. Mariana, L. Dittany:

Dry hillsides. (iilmer: near (ilenville--V. M. Faycotte: near Nuttallhurg-L. Wr. F. Wotzel: near BurtonM. if $(\mathrm{f}$.

KOELLIA, Moen. (1794.)
(Preanthemmm, Michx. 1803.)
K. fiexuosa(lfalt.).
(P. limifulium, Pursh.)

Dry grounds. W'ood: near Kanawha Station and Lomkharts Run. Fayetto: near Kamwha Falls -James; hear Nutallome-1. II. N. Preston: near Terra Alta. Summers: near Hinton. Aonroe: near Alderson.
K. Torreyi(Benth.).

Dry soil. Fayette: near Nuttallbur-1. W. N. Summers: near Hinton.
K. clinopodioides(T. \& (i.)

Dry soil. Nicholas: near Bearer Mills, alt. 2125 ft .
K. Tullia(Benth.).

Open woods and banks. Fayctte: near Ninttallburg, (\%)mmon-L. W. N.
K. incana(L.). Mountain Mint.

Dry soils, Wirt: near Burning Springs and Elizabeth. Monongalia: near Morgantown. Fayette: near Nuttallburg -L. W. N.
K. montana(Michx.).

Rocky river banks. Fayette: near Nuttallhurg, rave. Not fomm in 1891-K. H . N.

## HEDEOMA, Pers.

H. pulegioides(L.). Pers. American Pennyroyal. L. W. N... M. \& G.

Dry fields and woorls. Common throughout the State.

CALAMINTHA, Mœnch.
C. Clinopodium, Benth. Basil. M. \& G.

Dry soils. Upshur: near Buckhamm. Fayette: near Nuttallburg, rare-L. W. N. Randolph: near Crickard P. 0 .

## MELISSA, L.

IM. officinalis, L. Balm.
Escaped from gardens. Kanawha: up 8-Mile Creek. Fayette: near Nuttallburg-L.W. N.

## SALVIA, L.

M lyrata, L. Sage.
Meadows. Monongalia: near Morgantown. Fayette: near Nuttallburg L. W. N. Gilmer: near Glenville-V. M. Mercer: near Ingleside.

MONARDA. L.

ft.; near Valley Hearl. Minemal: near Darvis. Grant and Tucker on II: V'a. (montral R. R. Nombe: near Mkerson. Hardy: men Nowrdidel-
M. fistulosa, L. Wild Berwamont.

Bry mils. Wirt: near Elizaluth. (iblmer: near De-
 of Point Monntain, alt. :37(0) ft. Momongalial near Feés Ferry. Faycter: near Nontallhum-1. W". ‥; near Kanal-
 (irembucr: near White Suphur furing: Jarjon: near


Far. rubra, (iray.
Monist groumlo. Mincral: ahong Abraham's Creek. Summers: near (imentrier stockyards. Momroe: near Aldarons.

Far. mollis(L..), Benth.
Sharly places. Fayrite: near Nuttallmme-L. W. N.

## BLEPHILIA, Raf.

B. hirsuta. Bentl.
M. \& 19 .

Fiedds and fence rons. Ramelohh: summit of Rich Mountain, alt, 3000 ft . Falotte: near Hawk's Nest-James. Prestom: mear Terra Alta.

AGASTACHE, (iren. (1762). (Lophanthus, Benth. 1s3t.)
A. nepetoides(L.) (fiant Hysop).

Ohio: near Wheeling-M, is (i.

## CEDRONELLA, Moench.

C cordata, Bentl.
Moist, shady ravines. Kanawh: mar Charlestombarness Faycte: near Kamwhal Falls-. Tante. Gilmer: ne:ar (ilemille- Y. Il.; Prof. Brown. Randolph: xummit of P'oint Mowntan, alt. siofoft. Monomgalia: mear Round Bottoms: oppmaite Litthe Falls. Farothe: near Nattallhurg--L. II. N.

> NEPETA, L.
N. Cataria. L. (atıip).
I. II. N., I'. M.. M. \& (i.

Roadsides and wasto faces. Gmmon throughont the state.

Fomd at various points is the higher Alleghanies. remotr from dwellings.
 N．Cilechomer，Benth．L．IV．N．，II．\＆（t． Ahmalant thronghout tha sothen proptions of the Niatc．

## SCUTELLARIA，L．

S．lateriflora，L．Mad－log sikull－（ap）．L．II＇．N．，M．\＆if． Wret shandy paces．Frequent thronghont the state．

S．versicolor，Nutt．，＇ctr＇．minor，（＇ha｜nu．
Rich soil．Faycte：near Nattallhurg－1．IV．N゙．（）n risiting Mr．Nutall＇s station for this epreies，a moss conered benker，I was impressed with the eqeat beaty of thie little skull－call，which，in its moss．berl，resmblad a hight blu： hit of color upon a Fairyo palette．

S．saxatalis，liddell．
II． $\mathfrak{d i}$（
Moist shady hamks．Fayctle：neal Nittallhag－－L． II．N．：along the north hank of the（ifeat Kanawha Riow near Kanawha Falls．

S．serrata，Andrews．
Woorlands：Kanawha：near（harlestom－barnes． Putnam：near Buffalo．Farette：near Nuttalburg－L．W．N．

S．canescens，Nutt． M．が
Ditches and moist places．Wirt：near Elizabeth． Kanawha：ups Mile Creck．

S．pilosa， L ．
Dry momatain siles．Faycte：near Nuttallhurg－ L．W．N．
lier：hirsuta，Benth．
With the preceling．Fayette：near Nuttallburg－ L．II．．．

S．integrifolia，L．，＇＂u＇．hyssopifolia．
Low gromods．Ifood：near Kanawha station． abundant．

S．parvula，Michx．
Sandy banks．IV ourl：near Parkersburg－M．it（i． Masm ：near Point Plearant．

## S．galericulata，L．

Wet shady places．Kanawha：near Charleston－ Barness：near Pocataligo．Jackenn：near Fi－her＇s Point． （iilmer：near（ilenville－Prof．Brown．

Formu albifiora.
Kanawha: near (harleston-bances.
S. nervosa, P'ursh.
M. © G.

Moist thickets. Momongalia: on The Flats near Morgationm.

BRUNELLA, L.
B. vulgaris, 1. Healall. (i.. L. W. N.. V. M., M. \& (r. All situations. (ommon throughout the State.

Formu albiflora (Boggenhard). Briti.
Tackem: on Limestone Ridge.

## PHYSOSTEGIA. Benth.

P. Virginiana(L.), Bonth. False Dragom-hearl.

Wet places. Fayette: men Nuttallhug-L. W. N.; no: Kanaw ha Fall:- James.

## MARRUBIUN, L.

M. vulgare, L. Horchomed.
M. de G.

Waste grounds. escaper from gardens. Randolph: near Ford's. Jefferson: near Shepherdstnwn. plentiful.

## STACHYS, L.

S. palustris, L. Hedge Nettle.

Wet grounds. Gihmer: near (ilemville-Prof. Brown.
S. aspera, Michx.

Damp places. Fayette: near Nuttallhurg-L. IV. N.
Vrir. glabra, Gray.
Damp places. Mason, banks of the Ohio River near Point Pleasant, common.
S. cordata, Ridd.

Rocky thickets. Wirt: near Elizalieth.

## GALEOPSIS, L.

G. Tetrahit, L. Hemp Nettle.

Waste places. Preston: hear Tera Alta. : near Cranherry Summit-M. if (i.

## LEONURUS, L.

L. Cardiaca, L. Hotherwort.

Waste places near dwellings. Monongalia: ncur Ice's Ferry. Hardy: near Moorefield. Mereer: near Princeton. Jefferson: near Shenandoah Je.

## LAMIUM L.

L. amplexicaule, L, Dead Nettle.

Escaped from Gardens. Fayeite: near NuttallburgL. W. N. Monongalia : plentiful on the College Campus.

## TRICHOSTENIA, L.

T. dichotomum, L. Bastard Pennyroyal.

Dry fields. Mason: near Brighton. Hardy: near Monrefield-G.

## PLANTAGINE 抔.

 PLANTAGO, L.P. MAJOR, L. Plantain.

Waste ground. Ohio: near Wheeling-M. if G. Fayette: Nuttallburg-L. W. N. Monongalia: Morgantown.

PRugelil, Decne. Common Plantain. L. W. N., M. it U'. Common throughout the State, near dwellings.
P. lanceolata, L. "Buck Plantain." "Ripple." "Buck-hor" Plantain."
Becoming a common weed throughout the State; very little as yet however in Jefferson, Berkeley and Morgan counties. Greenbrier: near White Sulphur Springs. Fayette: near Nuttallburg-L. W. N. Mercer: near Princeton.
P. Virginica, L. White Plantain.

Sandy soils. Fayette: near Nuttallburg, L. IV. N. Monongalia: near Morgantown ; and frequent throughont the State. Hardy: near Moorefield.

## APETALA.

## ILLECEBRACEA.

ANYCHIA. Rich.
A. Candensis(L.) B.S. P. (A. capillarce, D. C.)

Dry Woork. Fayctte: near Nutallburg, commonL. 11 . N.

## PARONYCHIA, Tourn.

P. dichotoma, Nutt. Whitluw-wort.

Rocky places. Jefferson: now Harper's Ferp-Gray.

## AMARANTACEA. <br> AIMARANTUS, L.

A. HYPOCHONDRIACUS, L. Red Amalanth.

Waste places. Ohio: on Bogg's Island-M. if (i. Monongalia: near Morqantown,
A. PANICULATUS, L,

Waste places. Monomgalia: noar Morganton. Hardy: near Monrefietr-( r .
A. Retroflexus, L. Pigweed.

Ohin: on Bogg's Esland-M. if (i. Monomgalia: near Morgantown.
A. CHLOROSTACHYS, Wild.

Gardens and waste places. Filyette: near Nuttallburg, common-L. W. N. Monongalia: near Morgantown. Hardy: near Moorefield-(i.
A. albus, L. Tumble-weed. II. \& (i. Waste places. Monongalia: near Morgantown.
A. SPINOSUS, L. Thomy Amaranth.

Wiste gromils. Kanawha: near Charlestom. Putnam: near Buffalo. Mason: near Point Pleasant. Wood: near Parkersburg, abumlant. Jefferson: near Shepherdstown.

## CHENOPODIACE $\mathrm{E}_{\mathrm{E}}$ 。

## CHENOPODIUIM, L.

C. Album, L. Lamlis Quarters. Pigweer. L. II. N., M. \& G. Roadsidex and waste places, common throughout the State.

Fofi: viride, Moq.
Dry sadme hillsides. Fayotle: ne:m Nutalbhra, alt. 2000 ft . . im (ommon- L . IV. N.
C. HYbridum, L.

Dry mandy hillsides. Fayette: near Nutallburg, apparently indigenous-L. IV. N. Jefterson: near thepherdstown.
C. URBICUM, 1 ..
M. ©

Haste places, frequent.
C. GLAUCUM, 1 .

Wraste places. Monongalia: near Feex Ferys.
C. Botrys, 1. Jerusalem ()ak.

Ohio: near Whecling. Jefferson: Shepherlitown.
C. ambrosioides, L. Mexican Tea.
M. \& $G$.

Wraste places. Common. Kanawha: along Great Kanawha River. Taylor: near Grafton. Wood: near Parkersburg.

Vat: anthelminticum(L.), Gray. Wom weed.
Plentiful along the Crreat Kanawha Rirer. In Kinawha, Putnam and Mason comnties. Nayette: near Nuttall-hurg-L. W. N. Jackson : along (. de P. pike.

## PHYTOLACCACER.

## PHYTOLACCA, L.

P. decandra, L. Poke. Sooke. (farget. (f., L. Wr. N., MI. ※t. All situations. even in higher mountains. Common throughout the state.

## POLYGONACE E .

ERIGONUM, Michx.
E. Alleni, Wats.

Greenbrier: near White Suphurspring-T. F. Allen.

## POLYGONUM. L.

P. orientane, 1. Princes Peather
II. \& (i.

Escaped to waste places. Lewis: ncar Weston. Monongalia: near Morgantown. Fayette: near Nuttallhurg, rare -L. IV. N. Mineral: near Pieilmont.
P. Pennsylvanicum, L.
(i., L. Wr. N.

Low grounds. Commen throughout the State.
P. Persicaria, L. Lady's Thumb.
M. \&

Waste grounds. Lewis: ncar Weston. (iilner: near (xtenville-V. M. Fayette: near Nuttallburg-h. IV. N. Mason: near Point Pleasant. Whod: near Parkershurg. Hardy: near Mnorefield-h.

Formu albiflora.
A pure white-fowered form abundant near Point Pleasant.
P. Hydropiper, L. Smartweed. Water Pepper.

Wet grounds. Monongalia: near Morgantown. (iilmer: near Glenville-V. M. Fayette: near Nuttallburg-L. W. N. Ohin: near Wheeling-M. \& $G$.
P. acre, H. B. K.
G., L. IV. N.

Wet places. ('ommon throughout the state.
P. hydropiperoides, Michx. Mild Water-pepper.

Swampy places. Common throughout the state.
P. Virginianum, L.
L. W. N.

Thickets and in rich soils. ('ommon throughout the State.
P. aviculare, L. Door-weed. "(roose-grass." L. IV. N.

About dwellings and roadsides. (Gommon throughout the State.
P. erectum, L.
L. W. N.

With the hast. eperially in streets.
P. tenue, Michax.

Dry pastures. Wood: near Kanawha Station. Monongalia: neal Morqantown. Taylor: near (irafton, amd combion throwhout the state.
P. sagittatum, L. Tcan-thumb.
(i., L. IV. N., M. © (i) Wrat places. ('ommon thenghout the state.
P. arifolium, L .

Low grounds. Berkeley: near Martinsburg. Monmgalia: near Morgantown, and elsewhere frequent.
P. Convolvulus, L. Black Bindweed.

Gardens and waste places. Fayette: near Nuttallourg -L. W. N. Mason: near Point Pleasant.
P. dumetorum, L., for: scandens(L.), Gray. Climbing False Buckwheat. (i., L. W. N., M. \& (r.
Low grounds along streams.

## FAGOPYRUIM, Gærtn.

F. esculentum, Muench. Buckwheat. G. W. N., M. \& G. Waste grounds and cultivated fields. A frequent escape.

## RUMEN, L.

R. Brittanicus, L. Water Dock.

Wet places. Ohio: on Bog's Island-M. \&f (T) Berkeley, near Martinshurg.
R. CRISPUS, L. Curled Dock. M. \& G.

Waste places and cultivated fields. Frequent.
R. obtusifolius, L. Bitter Dock.
L. W. N.

Waste grounds and cultivated fields, common.
R. Crisper x obtusteolius.

Waste places. Monongalia: streets of Morgantown.
R. SANGUINEUS, L. Bloody Dock.

Damp places in waste grounds. Berkeley: near Martinsburg.
R. conglomerates, Murray.

Shady places. Fayette: near Nuttallburg-L. IV. N.
R. acetosella, L. Horse sorrel. J., L. W. N.., V. M., M. \& (i. Abundant everywhere ; even along paths in the dense spruce forests of the higher mountains.

ARISTOLOCHIACE 再。

## ASARUM, L.

A. Canadense, L. Wild Ginger. "Colic Root." M. \& G.

Rich wools. Witt: wear Burning Springs. wilmer:
near Glenville-I'. M. : Prof. Brown, Jefferson: near Flow imbsing Mill. Fayotte: near Nutalbburg-L. IF. N Monongalia: near Cffingem and Moreantown. Mrelowell: near Elkhom. Mewer: Bluestone de. and "ommon thronghout the state.
A. Virginicum, 1 .

Rich soil. fimat: mear larame Theker: atong Black W:ater. (iilmer: near (ilempilli-! M. Prof. Brown.
 Elkhom. Mereer: Bhestence Ir. and Bluctiede.

## ARISTOLOCHIA, L.

A. Serpentaria, 1. Virginial nakeront. M. it (i.
 dolph: neal Fords and on Point Monntain. (iihner: near (ilenville-l'rof. Brown. (irant: near Payarl. Theker: near Davis. Mincral: mear Kersel-W. Fayotte: mear Nuttallloug-L. IV. N.
A. Sipho, L'Her. Dutchman: Pipe.
lijech woods, freguent throughomt the state. Ahumdant in the following leralities. Randolph: on Point Mountain. (frant: near Bayad. Cilmer: near filenville - I. M.. Prof. Brown. Fayette: near Nuttallburg-L. W. N. Merrer: Ingleside.

## PIPERACEX. <br> SAURURUS, L.

S. cernuus, L. Lizard’s Tail.

Streams. Jefferson: near Harpers Fery-M. \& (i) Rrooke: near Wellsburg. Faycte: near Nutallburg-L. II. N.

## LAURINER.

SASSAFRAS, Nees.
S. officinale, Nees, Sassalims. (i.. I. IV. N.. V. M., M. \& (i.

Thickets and opens. Abmilant throughout the State.
LINDERA, Thumb.
L. Benzoin(L.), Neinn. Wild Ah-pice Espier-hosh. L. II: N.: I. ML. M. if (i. Low woote. Common throughout the state.

## THYMEL※ACE ※.

## DIRCA, L.

D palustris, L. Leatherwool.
Damp woreds. Jackson: near Ripley. Wir: nest Elizabeth. (abhom: near White Pine and brookville (ivernbrier: White Sulphur Springs. Fiavete: near NuttallhargL. IV. N.

## LORANTHACEX.

## PHORADENDRON, Nutt.

P. flavescens(Pursh.), Nutt. American Mistletor.

Parasiticon Sugar-Maple and Black Locust, along the (ireat Kanawha River in Fayette eounty. On Black Walnut and Elm in Kanawha country. On Elme in Masom countr, and in Wood near Parkersburg. On Elms and Hickories, along the Ohio and freat Kanawh rivers, in Cabell connty.

## SANTALACE $\mathbb{A}$. <br> PYRULARIA, Michx.

P. pubera, Michx.

Rich woods. Mollowell: near Elkhorn.

## EUPHORBIACE A.

## EUPHORBIA, L.

E. glytosperma, Englm. rur. pubescens, Englm.

Sandy soil. Mason: banks of the Ohio river, near Point Plearant. The only station in far known in the State.
E. maculata, L. Spotted Spurge. L. W. N., M. \& (i.

Arid soils. Common crom in the higher Alleghanies.
E. Preslii, (iuss.
L. W. N., M. ば G .

Dry soils and pastures. Common throughout the state, even in the higher Alleghanies.
E. marginata, lursh.

An escape from cultiration. Taylor: permanently established near Mannington- I'. M. Monongalia: the Flats near Morgantown.
E. corollata. L. Flowering Simese
M. if $i$

Dry wils. Wirt: near Elizalneth. Lawis: along Leading Creek. Upshur: near Laurent\%. Randolph: on Lone fugar Knob, alt. 2,800 it. Webster: Long Glade. Nicholas: Mumble-the-Peg Creck. Kanawha: along S-Mike (reek: near Pocataligo. Jarkson: Fisher's Point. Wood: on Limestone Ridge. (iilmer: near (flenville-V. Il. Fayette: near Nutalbury, L. IV. N. (irant: near Bayard. Monongatia: plentiful along ('heat River. near Camp Éren. (irecnhrier: near White Sulphur springs. Monroe, near Alferson. Fimmmer: near Hintom. Itason: near Point Pleasant.
E. dentata. Michx.

Rich soil. Whio: near Wherling-II. id (i.
E. Darlingtonii, Gray.

Damp wooks. Powahontax: along the mountains1. I. Hopkins.
E. obtusata. Pursh.

Rich soil. Ohio: near Wheeling-M. \& C .
E. Cyparissias, L. "Grave-yard-weel."

A frequent escale from cemeteries. Monongalia: near Morgantown. Cabell: near Huntington.
E. commutata, Enghn.

Woodlands. Jefferson : near Harper's Ferry-ll. \& \&.; near shepherdstown. Mineral: near Keyser- IV. along Knobby Mountains. Summers: near Hinton, abundant. Hardy: near Monretield-(i. Hampshire: near Romney.
E. Lathyris, L. "Mole-weed."

Escaped from gardens, where it is cultivated with the idea of keeping wut moles. Ramdolph: roadside up, Point Mountain.

## ACALYPHA, L

A. Virginica, L.
MI. dit

Fiekl and waste places. Common thronghout the state.
forma intermedia, mihi.
A form apparently uniting A. Virginica, L. with A. Caroliniana, Ell. especially in the matter of leares and bracts, is found near Nutallburg-L. W. N.. and Hank's Nest. as well as along New River opmosite Ilinton.

## URTICACE 屈。

## ULIVIUS, L.

U. fulva, Michx. Slippery Elm.
M. © (i.

Rich soils. Monongalia: beal Morgantorm, Laurel Point and Stumptown. (Xilmer: near Gilenville-V.M. Fayette: near Nuttallburg-L. W. N. Mason: near Point lleasant. Summers: along (Grembrier river.
U. Americana, L. White Elm. L. W. N., V. M., M. \& (i. Abong rivers. Frepuent thronghout the State.
U. racemosa, Thomak. Corky Elm.

Near streams. Momme: near Alderson. finmmers: along (treenbrier river.

## CELTIS, L.

C. occidentalis, L. Hackberry.

Woods and river banks. Jefferson: near Shenandoah Junction. Monongalia: near Morgantown. Jackson: near Ripley. Filyette: near Nuttallburg-L. W. N.

## CANNABIS, L.

C. Sativa, L. Hemp.

Fields and waste places. Escaped from cultivation. Jackson: frequent.

## HUMULUS, L.

H. Lupulus, L. Hops.

Alluvial banksmear streams. Very doubtfully native. Randolph: near Cricard. Marshall: near Moundsrille. Marion : near Clements, and Catawha. Mineral: opposite Cumberland, Mrl.

## MORUS, L.

M. rubra, L. Black Mulbery.

Rich woods. Wood, Wirt, Calhoun and Gilmer-V.M. along the Little Kanawha River. Jefferson: frequent throughout. Grecnbrier: near White Sulphur Springs. Fayette: near Nuttallhurg, no large trees noter-L. IV. N.
M. alba, L. White Mulberry.

A frequent cscape. Monongalia: near Morgantown. Jefferson: near Millville and Charlestown.

## BROUSSONETIA.

B. Papyrifera. Paper Mulberry. "('ut laper.

Excaped from roltivation. Jefferson: near Flowing Spring Mill and Milltown. Kanawha: near Montgomery. Berkeley: near Martinshurw.

## URTICA, L.

U. gracilis, Ait. Nettle.

Moist shady plawes. Common.
U. urens, L. Stinging Nettle.

Adrentive. Hancock: near Holliday's Core Rave.

## LAPORTEA, Gaud.

L. Canadensis(L.),Gaud. Woor Nettle.

Moist rich woods. Fayette: near Nuttallburg-L. IV. ‥: near Kamawha Falls--James. Frequent throughout the State.

## PILEA, Lindl.

P. pumila(L.), Gray. Clear Weed. Rich Weed. L.W.N., M. \&G. Cool, moist, shady places. Common throughout the state.

## BGEHMERIA, Jacq.

B. cylindrica(L.), Willd.

Damp places. Fayette: near Nuttallburg-L. IV N. Monongalia: near Iffington.

## PLATANACE

PLATANUS, L.
P. occidentalis, L. syeamore. Buttonwowl. L.W.N. V.M., M.\&(i. All wils." Common thronghout the state.

## JUGLANDEA.

JUGLANS, L.
J. cinerea, L. Butternut. White Walnut. L. W'.N.. I.M.. M.\&(i. Common throughout the State.
J. nigra, L. Black Walnut.
L. IV. N., IT, M., II. \& (i.

Rich roble, even in the higher Alleghanies. A very common and valuable timber tree throughout the stat".

## HICORIA, Raf.

H. ovate. (Mill.), Britt. Shag or Shell hark Hickory (Coyer rebus, Not.) L. W. N., V. M., M. \& (i. Low grounds, frequent thenghout the sate.

H1. sulcate, (Jut.) King Nut. (Ciri!u sulcate, Jut.)

- Rich soil. Monongalia : near Ices's Ferry-
H. alba,(L.) Britt. White Heart Hickory (Caria tomentosu, Tut.) L. IV. N.. V. M. Took, frequent throughout the State.
H. glabra(Mill.), Britt. Pig Nut. (Crisp pmetina, Nit.) L. WV. N., I'. M., M. \& (i. Dry soils, fregume throughout the State.
H. microcarpa(Nutt.), Britt. (Curya microctrpu, Nuts.) moorlands. Fayette: near Nuttallburg-L. M. N.
H. minima(Marsh.), Britt. Bitter-nut. Carla anuria, Not. Low Woods. Greenbrier: near Fort Spring and Ronceverte.


## CUPULIFER EA.

## BETULA, L.

B. lenta, L. Sweet Birch. Black Birch. L. W. N., M. \& G. Rich IVoods. Common throughout the State. Grows very large in the mountains. One specimen near Cheat Bridge measure ; 7 ft .9 in , in diameter.
B. Iutea, Michx.f. Yellow Birch.

Higher mountain woods. Grant: near Bayard. Tucker: near Hulings. Braxton: near Sutton. Randolph: near Dickens.
B. populifolia, Marsh. White Birch.

Poor soils. Gilmer: near Glenville-V. M. Ramdoiph: near Winchester.
B. nigra, L. River Birch. Red Birch.

Along streams. Calhoun: along Little Kamawha River. Gilmer: near Grenville- ${ }^{T}$. MI. Greenbrier: near

Fort Spring. Simmors: near Grembrer Stockyads: near Hinton. Kanawha: near Handley. Fayette: near Nuttall-burg-L. W. N.; and common along streams throughout the rentral and somthem comties.

## ALNUS, L.

A: viridis, DC. Monntain Alder.
Along mountain streans, rare. Greenbrier: Columbia Sulphur Springs. Fayette: near Nuttallburg-L. W. N. Pocahontas: at Traveler's Repose. Randolph: along Cheat River.
A. serrulata, Willd. Smooth Alder.

Low grounds and along rivers. ('ommon, especially in the glade regions.

## CARPINUS, L.

C. Caroliniana, Walt. Blue or Water Beech.

Damp thickets and river banks. Wirt: near Elizabeth. Monongalia: near Morgantown, plentiful. Gilmer: near Glenville-V. M. Fayette: near Nuttallburg-L. W. N. Summers: near Hinton. Marion : near Worthington. Jefferson : near Harper's Ferry-M. \& G.

## OSTRYA, Scop.

O. Virginiana Mill.), Willd. Lever Wood. Iron Wood. M. \& C.

Rich woods and along streams. Wirt: near Elizabeth. Randulph: on Point Mountain; at first Top of Cheat there is a forest of this wood where trees are found in quantity from 1-3 feet in diameter. Webster: on Buffalo Buil Mountain. Greenbrier: near White Sulphur Springs. Summers: near Hinton. Marion: near Worthington. Fayette : near Nuttallburg-L. W. N.

## CORYLUS, L.

C. Americana, Walt. Hazlenut.

Thickets, frequent throughout the State.
C. rostrata, Ait. Beaked Hazlenut.

Mountainous regions. Upshur: : summit on Staunton Pike. Randolph: near Fords.

QUERCUS, L.
Q. alba, L. White Oak.
L. W. N., I'. M.. M. \& (i.

All soils, plentiful throughout the State.
Q. minor(Marsh.), Sarg. Post Oak. Iron Oak. (Q. stellatw, Wang.) Dry sterile soils, common.
Q. macrocarpa, Michx. Burr Oak. Mossy-cup Oat.

Rich soils. Tyler : near Long Reach.
Q. Prinus, L. Chestnut Oak.
L. W. N., M. \& $\mathrm{C}_{\mathrm{t}}^{\mathrm{t}}$. Rocky woods. Frequent throughout the State.
Q. Muhlenbergii, Engelm. Yellow•Oak.

Rich, wooded valleys, especially in the mountains. Fayette: near Nuttallburg, rare-IL. W. N.
Q. rubra, L. Rerl Oak.
L. W. N., V. M., M. \& G.

Common throughout the State, in both rich and poor soils.
Q. coccinea, Wang.

Woodlands. Fiyette: near Nuttallburg, apparently a second growth-L. W. N.
Q. tinctoria, Bartr. Black Oak.

Dry woodlands. In large tracts in the Alleghanies of Nineral, Grant and Tucker counties. Gilmer: near Glen-rille-T. M. Fayette: near Nuttallburg-L. W. N. Monongalia: near Ice's Ferry. Summers: near Hinton.
Q. palustris, DuRoi.

Along streams. Monongalia: near Stumptown.
Q. cuneata, Wang. Spanish Oak. Q. falcata, Michx. Dry sandy soils throughout the western counties.
Q. nigra, L. Black Jack Oak.
V. M.

Common in dry or heary clay soils throughout the center of the State. Hardy : near Moorefield.
Q. ilicifolia, Wang. Holly-leaved Oak.

Sandy soils. Hampshire: near Romney. Hardy: near Moorefield.
Q. imbricaria, Michx. Laurel Oak.

Rich woods. Monongalia: near Morgantown and Laurel Point. Hardy: near Moorefield.

## CASTANEA, Gaertn.

C. sativa, Mill., ctu. Americana(Michx.),Sargent. Chestnut. L. W. N

> Rocky woods and hills throughout the State.
C. pumila, Mill. ('hinyuapin.

Dry hilk. Faycter: ne:ar Nutallhurg. alt. 2000 ft . frepuent-L. W. K. Wayne: nean C'erede and Compton's ('reek. Mereer: Beaver sir.. and Ingleside.

## FAGUS, L.

F. ferruginea. \it. Beech. L. IV. N.. V. M.. M. if (i. Gencral.

## SALICINE E 。

## SALIX, I.

S. nigra, Marsh. Black Willow. L. W. Ň., M. \&由 (i. Along streams, frequent or common. The principal willow of the state.

Frif: falcata, Torr. Serthe-leaved Black Willow.
Along pringy runs. Wirt: along Straight Creek. Lewis: along Leathing Creek. Fayette: near NuttallhurgL. W. N.
S. amygdaloides, Anl.

Fayette: near Nuttallhurg-L. If. N.
S. alba, cur. Vitelifna, Koch. White Willow. II. \& f . scattered along streams in many parts of the State. from protective or ornamental planting.

S Baeylonica, Toum. Weeping Willow.
I frequent wesape as in the last species. Monongatia: near Morgantown. Jeffersom: near Flowing Spring and Milltown.
S. discolor, Muhl. Shining Willow.

Ohio: im Boges [slant-Mc. if (t.
S humilis, Manth: Praric Willow.
Glady regions. Wehnter: near [inn Chande. Preston: ncar Terma iltal.
S. sexicea, Marsh. silky Willow.

Along streams. Randoph: along Tygarts Valley River: Greentrier: near White Sulphor Aprings.
S. corcata, Muhl. Heart-leaverd Willows.

Along streams, frempent. Lewis: along Leading

Creek. Weod: near Parkershurg. Mason: near Point Pleasant.

## POPULUS, L.

P. alba, L. White Poplar. Abele.

A frequent eseape from contivation. In many places in the State, where the tree is planted for omament, this species speads widely from the ront, thas often becoming a pest in lawns and along streets.
P. tremuloides, Michx. Mspen. Trembling Poplat: Mi. \& (i. Wooded hillsides. Wirt: along Little Kamata River. Calhoun: near Crantsville. (iblmer: near (ilenville. Monongalia: near Marion; along the Monongahela River. Summers: near Riffe. Mason: near Point Pleasant:
P. grandidentata, Michi. Large-toothed Aspen.

Preston: near (ranbery Summit- If. if (i. ()hin: near Wheeling-M. \& (i.
P. balsamifera, L., var. CANDICANS Ait.), (iray. Balm of (Gilcad. M. \& G
Plentiful at Montana, along the Monongahela river in Marion Co. Monongalia: the Flats near Morgantown. (Gilmer: near Glenville-V. M. Fayette: near Nuttallhurg, rery likely introdured-L. W. N.
P. monilifera, Ait. Cottonwood.

Ohio: near Bogg's Run-M. \&f G. Mason: near l'oint Pleasant.

Corbina Conradr, Torr., mentioned in Botanical Gazette, Tol. 2., P. 136, as occuring near Hawk's Nest, Fayette Co., is proven hy Prof. James to be another species; and should therefore not yet be crediterl to this state.


## MONOCOTYLEDONE.

## HYDROCHARIDEA. <br> ELODEA, Michx.

E. Canadensis, Mich.x. Water-weed.

Slow streams in slack water. Fayette: near Kanawha Falls-James. Putnam: near Buffilo.

## ORCHIDE出。

MALAXIS, Sw. (1788).
(Nicrostylis, Nutt. 1818).
M. unifolia(Raf.)
M. ophioglossoides, (Nutt.)

Rich woodlands. Greenbrier: near White Sulphur springs-M. \& G. Fayette: near Nuttallburg, rare-L.V.N.

LEPTORCHIS, Thou. (1809).
(Liparis, Rich. 1818).
L. liliifolia(L.), Tway-blade.

Rich woods. Monongalia: the Flats near Morgantown. Gilmer: near Glenville-V. M.. Prof. Brown.

APLECTRUM, Nutt.
A. spicatum(Walt.), B. S. P. Adam-and-Eve. (A. hiemale, Nutt.)

Rich woods. Monongalia: rich woods near Morgantown. Gilmer: near Gilenville-I. M. Fayette: near Nut-tallburg-L. IV. I.

CORALLORHIZA, R. Br.
C. innata, R. Br. Coral Ruot.

Deep, rich woods. Grant: near Bayard. Fayette: near Nuttallburg, alt. $2000 \mathrm{ft},-\mathrm{L} . \mathrm{W}$. N. Gireenbrier: near White Sulphur Springr.
C. odontorhiza, (sw.), Nutt.

Rich woods. (tihner: near Glenviile-V. M. Fayette: near Nuttallhurg, alt. 2000 ft .--L. IV. N.
C. multiflora, Nutt.

Woodlands. Fiaycte: marar Nutallburg, alt. efoto ft. -L. W. N.

## GYROSTACHYS, Pers. (1807.) (Spiranthes, Rich. 1818)

G. cernua(L.) Ladies Tresses.

Wet meadows. Fayctte: near Nuttallburg, L. W. N. Monongalia; frequent throughout.
G. gracilis(Bigel.) Twisted Stock.

Sandy woods and fields. Fayette: near Nuttallburg, in hard, grassy ground-L. W. N. Monongalia: near Morgantown. Frequent throughout the State.

## GOODYERA, R. Br.

G. repens, R. Br.

In deep evergeen forests. Crant: under Black Spruce near Bayard. Fayette: in deep Laure Thickets, rare, near Nuttallburg-I. W. N. McDowell: near Elkhorn.
G. pubescens(Willd.) Rattlesnake Plantain. M. \& G.

Rich woods. Monongalia: along Decker's Creek and Tibl's Run. Fayette: near Nuttallburg, rare-L. W. N. Nicholas: near Beaver Mills. McDowell: near Welch.

## CALOPGON, R. Br.

C. tuberosus(L.), B. S. P.

Hardy: near Moorefield-Cr.

## POGONIA, Juss.

P. ophioglossoides (L.), Ker.

Boggy places. Preston: near Cranberry SummitM. \& G. ORCHIS, $L$.
O. spectabilis, L. Showy Orchis.

Rich woods. Monongalia: near Morgantown. Gilmer: near Glenville-V. M., Prof. Brown. Fayette: near Nuttallhurg, rare-L. W. N. MeDowell: near Elkhorn.

## HABENARIA, Willd.

H. tridentata (Willd.), Hook. Rein Orchis.

Wet places. Webster: in Long Glade. Fayette: near Nuttallburg-L. W. N.

Wed places. Wrantor: in Long Citable.
H. orbiculata(Pursh) Tour.

Rich woods. Randolph: hearemmmit Rich Mountain.
H. ciliaris (L.), R. Br. V゙ellow Fringed Orehis.

Wet sandy bogs. Webster: Welsh and lome (ilader. Preston: near Tempt Alta. Farette: near Nobtallburg, alt.

H. lacera(Mirlix.), R. Mr. Raged Fringed Orchis.

Bogs and moist thickets. Wood: near Lockhart's Ram, Preston: (ranlorey summit-M, if (i.
H. psycodes(L.), (Bray. Pink Fringed Orchis.

Tret places. Randolph: on Rich Mountain. (irant: near Bayard. Preston: near Terra Alta. Wayne: near Central City.

## CYPRIPEDIUM, L.

C. parviflorum, Salish. Small Lady's Slipper.

Rich woods. Monongalia: near Morgantown. Marion: near Opekiska and Fairmont. (iilmer: near (ilenville

-     - V. M. ; Prof. Brown. Mineral: near Kerser-IF. Hardy: near Moorefield-(r.
C. pubescens, Willa. Large Lady's slipper.

Low woods. Same stations as the last. Fayette: near Nuttallburg-T. W. N.
C. acaule, Ait. Moccasin Flower.

Dry or moist wools. Monongalia: near ('heat View, plentiful. Preston: near Reerstille. Gilmer: near Glen-ville-Prof. Brown. Falyette. near Nuttallburg, alt. 2000 ft .. in laurel thickets-L. LIT. A. Marion: along the F. M. it P. R. R. Mineral: near Kerser--IV. Kanawha: near Coal-hurg-James. Hardy: near Monrefield-(b.

## H不MODORACEIE

## ALETRIS, L.

A. farinose, J. Star (iras. Colic Root.

Sandy moist soil: Webster: in Cpr (ilaile. Fay-


## IRIDEA.

IRIS, L.
I. versicolor, L. Bhe Fhag.
 Rechsville.
I. verna, L. Hwat lris.

Hamy: mear Moneriedd-(i.
I. cristata, Ait. Whaf" ('reted lris.

Rich woods. Monongalia: mear Morgantown, plentiful. (iihmer: near fibmeilla- I. M., I'rof. Brown. Fayette: near Nuttalhurg-I. IV. N. Marion: alone the Monompahela liver, plentiful.

## SISYRINCHIUM, L.

S. angustifolium, Mill. Bhuceyod (frass. S. Brommiturn, Graly, not. L. M. \& (i.
Mnist grasy pares. Fayette: near Kamawha FallsJames; near Nuttallhur-h. IV. N. (iflmer: near Glen-ville-V.M. Monongatia: near Morgantown, and elsewherw (ommon.
S. anceps, (av.

Grascy plares. Fayette : near Nuttallhurg-L. IV. N.

## AMARYLLIDE $\nrightarrow$.

HYPOXYS. L.
H. erecta, L. Star-imas. Vellownyal hras.

Open paces. Fayette: near Nutallburg. commbonS. W. N. Lewis: [f Stone Coal ('reek. Monongalia: along Choat River near Camp Eden, plentiful. Harly: near Monertield-(i. Mereer: hear Bharfield.

## DIOSCOREACEX.

DIOSCOREA, L.
D. villosa, L. Wild Y̌am-root. Cobleroot. MI (i.

Thickets amd rich wools. Ramdohph: on Point Momban, alt. : 4.50 ft. (iilmer: near (ilemville-V. ML. Farette: near Nuttalllurg. P'istillate plants rare-L. IV. N. (irant and Tucker plentiful in the momean wools. Mon-
mgalia: phontiful. (irembrier: near White sulphor forings. Summers: mar Hintom. Hardy: hear Monelieht.


## LILIACE 要. <br> SMIILAX, L.

S. herbacea, L. ('arrion Flower.
II. id (i.

Thickets. Momongalia: phentiful at the Flate. Faywte: mar Nuttallhurg, rarn-l. IV. N.
S. rotundifolia, L. (ireenhriep. L. Wr. N., V. M., M. dif.

Thickets. tow common throughout the state.
S. glauca, Wralt.

Dry thickets. Kanawha: mar Charlestom-Barmes. Fayette: near Nuttallburg--L. W. N. Monongolia: atong (heat River near lees Ferry

## S. Pseudo-China, L.

Dry wils. Monongalial plentiful on the Flats: near Morgantown.
S. hispida, Muhl. Bristly Sarsaparilla.

Rich mil. Jiarion: near Faimment.

## ASPARAGUS, I.

A. OFFICINALIS, L. A.paragus.
M. \& (i.

Woomlsand upens; a frequent useape. Jefferson: mear Shemandoah Junction, plentiful. Monongalia: plentiful akng Cheat River, near loes Ferry, and at Stewartown. Mason: noar Point Tleasant. Burkeley: near Martinsharg. Hardy: near Mawrifich.

## POLYGONATUM, Adans.

P. biflorum(W:alt.), Ell. Small fiolomoms seal. (i., L. W. N., M. it i .

Rich woods and wooded hanks. Fropuent generally:
 Diotr.)
Edges of meadows. Nichalas: ncar Bearer Mills. (iilmer: near Cilenville-V'. M. Monomgalia: the Flate near Morqantown. Fayette: near Nuttallmar--L. W. N.

## STREPTOPUS, Michx.

S. roseus, Michx. Twisted Stalk.
('ohl, damp woods. (1pstiur: along Sand Run. Preston: near Terar Mla. Turker: mear Blackwater Falls. (imant: near Bayand. Randohph: western sopere of ('heat Mountains.

## DISPORUIM, Salisb.

D. lanuginosum, Benth. © Hook. (I'iosisterte lenugimoste, Don.)

Rich woods. Monomgalia: ncar Morgantown. Preston : near Terra Altal. Mineral: near Keyser-W. Fayette: near Nuttallhurg--I. W. N. (irant: near Bayart. Mereer: Bluestome Je.

UNIFOLIUIM, Adans. (176:;)
(Smilacina, Desf. 1798.)
U. racemosum (L.), Britt. False Solomon's Seal. L.W.N., V.M., II. it Ci .

Rich wooms. Common throughout the state.
U. Canadense (Desf.), (ireenc. Wikd Lily-of-the-Valley (s. bifolim, cur. Canctensin, (iray). M. \& C.
Low, rich woods. ('ommon throughnut the northern and castern counties.

## IMAIANTHEMUM, Wigg.

M. Canadense, leuf. M. dit.

Rich woods. Fayette: near Nuttalloury-L. W. N. Monongalia: along Decker's Creek.

## HEIMEROCALLIS, L.

H. fulva, L. Day-lily. "Eve's Thread".

Roadsides and fiede. A frequent escape from cultivation. Monongalia: near Morgantuwn and Cassville. Hampshire: near Bloomery where "jt has hecome widely scattered by ploughing."

## ALLIUM, L.

A. VINEALE. L. Field (ianlic.

Cultivated fields. Jefferson: a vile and abondant weed in wheat tields. Monongalia : along the Monongahela leelow Morgantown.

Reported as a weed from: Berkeley: near Wakton, Martinshug and Hedgesville Barbour: near Belingtom.

Braxton: mear Lherilsille (abell: mear Lnion Ridge. Doidrider: mar smithton. (imant: near Medley. (ircenhrier: near Trout labley and White sulphar springs.
 Bhomery, billonis lim, Higginswille amd spmagfield. Harrison: bear (inod Hope and brilgepert. Hardy: bear Wardensille amd Montodickl. Joflerson: mear summit
 and Kabletown. Jackon: near sandy: Kanawha: near


 Wist Liberty: Prestom: mear Tempa Ita, Remeville,


 Kanawha Hear. N:aym: neal holkin: Mills. Weetzell: mear Endientt and Blake. Wirt: near liomly Ripple. Wrool:

 Rich momatan words. (imat: man Bayard, ahmmo ant. Tucker: abmonant allong liackwater Fork of (heat. Grembrice: beal White sulphur smings.
A. cernuum, Roth. Wilat (hnom.
(imenhriv: near White sulphur springs. Fapotto: near Nuttallharg-L. IV. X. Ohin: near Wherling-il. it (i. Summers: near Hintom. Monmmatia: near Camp Edm, and hanke of burkers ('rov.
A. Canadense. Kahm. Wild (ianlic.

Ohio: near Whecling-M. 心夊 (i. Faycte: near Laup (rrek-lames.

## CAMLASSIA, Lindl.

C. Fraseri, Torr. Wild Ilyaintl.

Kich gromme Ohio: nowr Wherling-M. it (i. (iilmer: near (ilamilla-V. M.

## MUSCARI, Mill.

M. botryoides (l.), Mill. (impe llyacinth.
 (iilmer: mear (ilem-illa-- V'. M.

ORINTHOGALUIM, L.
O. umbellatum, L. star of Bethlehem. M. dis. Fixaloed from gamens. Momongatia: abondant and
perwistent on the line of the F., M. © P. R. R. from Morgan-


## LILIUM, L.

」. Philadelphicum, L. Wihl limd Lily. "(ilakr Lily." I'. It., 11. © 6

 Maron; along the F., II. if P. R. R. (ibmer: near (ilen-rille-V. Il. Wehoter: in the glates, where it is called "thate Lity:" Hardy: sear Moorefode- (i. Fayette: noar Nutallhurg-l. $\mathrm{W}^{\prime}, ~$.

Rich, low erommls. Rando!ph: summit Pomin Moun-
 artuwn. LIarly: mear Moorefichl-(:
C. Canadense, L. Wilal V'ellow Lily.
II. it $(\mathrm{i}$.

Moist meadows. Cahmion: along Lamel Run. (iilmer: near (ilenville-V. Al. Randulph: summit Point Mountain, alt. 212: ft. Monongalial near lers Ferry.
L. tigrinums, Ǩer. Tiger Lily.
M. ※́ Established from gandens. Jeftrom, Berkeley, Morgam, Hamphire and Mineral: alone the B. it O. R. R. Cathoun: near Browville. Nonongaliat near Morgantown.

## ERYTHRONIUML, L.

E. Americanum, Ker. Yellon Adder's Tongne. Dog's Tooth Tiolet. MI. if (i.
Ridh open wowls ahong streams. Monongatia and Marion: almog the Donongahela River. (filmer: near Glen-rille-V. M., lrof. Brown. Fayette: near Nuttallhurg - I. IV. N. Frequent or common thionghout the State. Harcly: near Monrefich-(i.

## CHAMELIRIUM, Willd.

C. Iuteum(1.), (imy. Mazing itar. Devil’-shit.
(rlades. Preston: near Terra Alta and Kingwoed. Webster: in Welsh. Long and Collett's Cilades. Gilmer: near filenville-V. Al. Fisette: near Nuttallhur-L. IV. N.

## UVULARIA, L.

U. perfoliata, 1. Bellwort.

Rich woods. Marion and Donomgalia: along the

Monomgahela river. Cihmer: near (ilenville-V. M., Prof Brown. Fayoter: mear Nuttalhurg-1. IV. N.
U. sessilifolia. 1.

Cultixin sessilifulier (L.), Wrat: Low rich woots. (iilmor: near Gilenville-V. Il Fayotto: near Nuttallhury-h. IV. N. Mereer: near Beave sir.

## CLINTONIA, Raf.

C. borealis ( Ait.). Raf. ('linton's Lily.

Colv dimmp wock. (irant: near Bayard. Preston: in Laturel hills. Theker: near Datris.
C. umbellata. Torr.

Rich woots. Randolph: on Rielo Monmains. (inant: near Barad Theker: in Lamd of Canam. (iihnor: neat (ilemvilic-l'rof. Brown, V. ME. Honomgalia: near Morgantown. Kamawha: wear Conlbur--bames. Fayette: Bean Nuttallhur-L. IV. N. Hardy: near Moorefiedi-(i. NeDowell: near Elkhom. Mereer: Bluestone de:

## MEDEOLA. I.

M. Virginica, L. Indian Cur umber. M. dic Rich, damp woods. Tpehmr: along Fand Run. (irant and Tucker: in the momatain woorls, plentiful. Gilmer: near (flenville-V. M. Monomgalia: near Morgantown. Kanawha: near (Coallmug-James. Fayette: near Xuttall-h,urg-1. W. N., and clsewhere fremuent. Inclowell: near Elkhorn.

## TRILIIUM, 1.

T. sessile, L. Semsile-howered Purple Trillium. II. it (i. Moist woots. Monongalia and Marion: abundant akmg the Momongahela river. (iibuer: mar Glenvilh-Prot. Browil.
T. erectum, 1. Purle Trillium. L. IV. N., V. N... M. © (i. - Ridl wools. Throughout the northern and eastern portions of the state. MeDowell: near Elkhom.

V'ti, album, Pursh.
Momongalia: near Morgantown. (iihner: mear (ilen-vill-V. M., Prof. Prowio. Taylom: Mear Valley Falls-N. $\therefore$ Hayces.
(her remarks under next form.)


(Note:- This foma apmars to be sufliciently different from T'. (rectum, and 'I'. wernum. to retain it ; itherwise I (onded not list the sperimens cathered.)
I. grandiflorum, Salish. IThito Trillimm. Il. \& (i.

Rich woods. Nomdant thenghent the mothern


T. cermum, L. Ifake Rohin.
 ette: near Nontallhury--1. IV. N.
T. nivale, Riddell. Dwarf White Trillium.

In moss of wet rocks. Monongalia: along renarey Run. (irant: along Buffalo ('reek. Randolph: along runfeeding thaver's Fork of Cheat. Tucker: along Boacer Creek, and Blackwater Fonk of' ('homat.
T. erythrocarpum, Michx. Jainted Trillium.

Cold deep ravine along runs. (irant: near Bayard. Randolph: Cheat River: Tucker: along Black Wrater Fork. Fayette: near Nuttallhurg. alt. 2000 ft ., rare-J. IV. N. NcDowell: noar Efkhorn. Taylor: near Valley Falls-N. s. Hayes. Merer: Bluestone Ife.

## NIEIANTHIUM. L.

IM. Virginicum, Bunch-flower.
Glades. Preston: near Terral Alta and in Morgan:Glade. Monongalia: glades near Booth's Creck. Wehater: Feenold Glate. Nicholas: Collett's Cilade.
M. parviflorum(Mifhx.), Watem.

Greenhrier: near White sulphur Springs-M. it (t.

## VERATRUM, L.

V. viride, Ait. American White Hellelore. II. \& (i. Rich wet spots in deep mountain wooks. Randolph: on Point Mountain. Webster: Buffalo Bull Mountain. (irant and Tucker: common along streams.
C. muscætoxicum( Wralt.) Fly Fッison.
 ton: mear Terra Alta.

## COMNELINACE TRADESCANTIA, L.

T. Virginica, L. Spiderwort.

Rich grounds. Kanawha: near ('hatlestm-Barnen
 -l. $\|^{\circ}$. N. Wirt along straight (reok and near Buminis Springs. Harly: near Noneficl- (i.
T. pilosa, Lchm. Hairy siphterwort.
()n boulders. Wirt: abundant bexomd limmone Spings, ami along straight ('rock.

## COMIMELINA. I.

C. Virginica, J. Way Fhower.


## JUNCACE

## JUNCUS, L.

J. effusus, L. Soft Rush.

Marshy ground. Kanawha: near ('harleston-Jame. Faycte: near Nuttallhurg-L. W. N. Common throughout.
J. setaceus, Rustl.

Finctor: war Lomp ('reek(?)-.lames.
J. marginatus, Rostk.

Moist sandy suils. Kanawha: neal (handeston. Famer. ('ommon throughont.

Var. paucicapitatus, Engh.
Farctor: Man Nuttalllurg-L. IV. N.
J. tenuis, IVild. "Powerty (imass." L. IV. N.

Romededes and ditehes. Dhombant throughout the state.

J．acuminatus，Michix
1）amp pater．Monomgatia and Marion：on How Mon－
 Fincto：men Nottallows．

J．nodosus， 1.

J．Canadensis，I．（ian．
Nonomgalia：near Little Falls．Foyctte：nmar Nut－ tallhurg－L．W．N．

## LUZULA，DC．

L．vernalis（L．），D（＇．
Ohio：on Thomas：Hill man Wherting－M．it（i． Filvette：mear Nuttallhur－L．W．N．

L．campestris（L．），IX．
Ohis：near Bemmon－M．is（i．TYler：man Long learh．Fayette：near Nuttallhurg－1．N゙．犬．Momongalia： ncar Morgantown．

## TYPHACE $\mathrm{E}^{\mathrm{A}}$ 。

## TYPHA，L．

T．latifolia，L．（＇at Taik．
Ditehes and swamp spots．（iilmer：mear（ilemville —1．11．Preston：near Terral Alta．Morgan：near Han－ cork．Honomgalia：near the Dille firm．

## SPARGANIUNI，L．

S．eurycarpum，Engehm．Bur－reed．
Bonders of streams amd still waters．Welster：in Wekf cilate．Cireenhrier：near White sulpherspings．

## AROIDE

## ARIS ÆIMA．Mart．

A．triphyllum（L．），Torr．Jack－in－thr－Pupit．I．M．．L．II．N．．
M．©（i．
Rich，damp wowk．Common throughout the state．
A．Dracontium（L．），schott．（ireen Dragen．
Lew grounds．（filmer：near（ilenville－V．It．

Buggy mealows. Proston: near Tormala, Momongalia: on the Dille farm.

Reported from: Browk: near Wrellourg and Fowlers Berkeley: mear Martinshurg and Hedgeville. Barbom: Hear Belington. ('ahell: near Milton. (irant: man Medler: (irecoland, Mount Stom, May-rille and Peterbarg. (irecinbrier: Bear Tront Valloy and Foit Spring. DLamphere: neal Slanerville and ('apon Britge Harrion : near Lont ('reek, Brideremert and Combl Hope. Hardy: near Wramensville and Oht Fieds. Hancock: Hear Fairvew and New ('umberland. Jeffersme : near Kahbotownandsumnit Point. Jacken: near (olaville. Lewis: near Walkemille. Mercer: near New Bramwell amd Princetom. Maxm: brar Maggie. Mineral: near Blane Marion: near (iray's Flats. Marahall: nodr St. Jowphand (ilen Easton. Ohis: near IV ent Liberty. Pocahontas: near Lobshla. Pleasante: nearschant\% Preston: near Terral Nita, Masontown, Eglon and Smhlers
 near Clio. Smmmers: near Talentt and ('artom. Tarlor: near Knotsrille. [jehur': near Kamawha Fiad and Illemlock. Wayne: near Adkin's Mills. Wetzel: near Littletom, Pine Grove and Blake. Wirt: near Burning Spring, Evelyon and lieedy lipple. Wood: near Rockport. Webster: near Replete.

## ACORUS, L,

A. Calamus L. Calamme. sweet-tag. II. \&i.
swamp places. Lewis: along Fione (obal Creek. Rambloh: near Valley Bend, (ricard, and on Point Momtain, alt. 30. 0 ft. (iilmer: near dilenville-V. M. Berkeley: near Martinsburg.

## LEMNACEAE.

## LEMNA, L.

L. minor, 1. Duck-weed.

Stagnant watery. Putnam: near liuffalo.

## ALISMACEAE.

ALISMA.L.
A, Plantago, L. Water Plantain.
M. か. (i.

Wht diteher. Momongalia: near Ieces Femy. smom-
mes: near Jinton. (irembrier: mear Whate sulphar Springr.

## SAGITTARIA, L.

S. sagittæfolia, L... form hastata(l'urh) Britt. Arem-hcal. II. © $\mathrm{i}_{\mathrm{i}}$.

In water of very wet places. Ramdobh: near Bererly. Sumbers: near linton. Greenbrier; near White Silphur Springs. Wool: near Parkershorg. Marion: near (lements. Fayetto: bear Nutallbur-1. IV. N. Berkeley: near Martinshurg.
firm angustifolia (Engeln.), Britt.
Wet places. P'utnam: near Butialo. Masen: near Point Plaminnt.
S. graminea, Michx.

Summers: shores of New liver near Hintom.

## NAIADACE $\mathbb{E}$.

## POTAMOGETON, L

P. fluitans, Roth. Pond Weed. ( $P$ '. lowrhites. Tuck.)

In rivers amb strems. Ramelolph: near Tygart's Valley River, near Hattonsville. Summers: New River: near Hinton:

## CYPERACE 届.

## CYPERUS, L.

C. flavescens, L. (ialingale.

Low grounds. Monongallia and Marion: along the Monongahela River. Mason: near Point Pleasant. Fayctte: near Nottallhur-L. W. N.
C. diandrus Torr.

Fayette: near Nuttallburg-L. II. N.
C. esculentus, L. Erlible (ialingale.

Preston: near Rowleshur- II. if (i.
C. strigosus. 1. Lank (ialingalk.

Low grounds. lackson: near samdyrille. Aomonga-

C. refractus, Engelm.

Fayette: mear Hawkis Nest-Iorter.

C．Lancastriensis，Porter．
summors：shores of Now liver，mar Hinton．

## KYLLINGA，Rott．

K．pumila，Niッツ．


## DULICHIUM，Pers．

D．spathaceum（1．）．I＇Ns．
Alomestreams．Rambolph：Treatts Valley River mear Huttonsville．Filrota：near Nottallhurg－1．IV．N．

ELEOCHARIS，R．Br．

E．tuberculosa（Mir小ふ．），R．心が，
 II．N．

E．ovata（Roth．），R．\＆心．Il．（i．
 dolph：Tygart：Valley River．Fay゚te：near Kanawha


E．palustris（l．）．R．心か
 tallhur－

Vili：glaucescens（Willıl．．（imy．

 （i．．l．W．N．
Damp phates，ahmodant evorwhere．
Note－The above names are appled along Trgat＇s Valley liver，where in place this spectes grows so ahundant at totako whole folds．amel as cathe will not thrive 1 own it． these nalles shgersted themsorlors．

E．acicularis（l．），R．\＆


## FIMBRISTYLIS，Vahl．

F．autumnalis（l．）．Rocm．is folnolt．


## SCIRPUS,L.

ungens, lial.

acustris, 1.

;ylvaticus, 1.
(ilarly places. Fiapotte: ncar Nutallhurg-1. IV. N.
II. 部
atrovirens, Muhl.
Boggy places. Hobomgalia: alomg the Nomongaheda River. Fayette: near Nuttallinus-D. W. N.
polyphyllus, V̌alı. L. W. N.
Rantolph: along 'Ygat's Valley River. Fayotte: near Nuttallhurg.

## ERIOPHORUM, L.

lineatum (Michx.). Benth. de Honk. ('nton Ciras.
Low grounds. Nonomgalia : along Falling Run, aboto the (:amplus.

Wet meadow lands. Monongalia, frequent. Epshux: nemr Buckhamon. Wehster: in Lome Glade. Kanawha: up S-Mile Crock.

Virginicum, 1.
Dan! places. Farotte: ncar Nuttallburg. Preston: near (ramberry smmoit-M. \& G.

## RYNCHOSPORA, Vahl.

glomerata(L.), Vahl. Beakirush. L. IV. N.
Low groumds. Wrebster: Lper Ctade. Jonomgalia: near Morgantown. Fiaycte: ne:ar Nuttallhurg.

## CAREX, I.

Wht the series of this gemus have passed through the hamde of Prof. Bailey. who kimelly identified them for this Flort.
folliculata, .
Margins of streams. Tuckor: near Falls of BlackWalter.
C. intumescens, Rulge.

Wer places. Falyette: near Nutallburg. Tucker: near Falls of Blackwater. Prestom: mear Terra Alta.
C. Grayii, ('arev. (iray's Medge.

Meadons: and (opses. Lp, har: near Beech Fork.
C. Iupulina, Muhl. Hop, Sedge.

Wret places. 「poshor: mear Lament\%
C. Iurida, Wahl. Pale Eedger. (C. lenturult. Muhl.)

Kwampernots: Monongalial along Falling Run. Wrod: near Luckhat's Run. Fiyetle: near Nutallhurg1. II. N.

On mosey bublders. Welster: along Buffalo Bull Mountain, alt 2.5. feet. Tucker: mear Falls of Blackwater.
C. stenolepis, Torr.

Dan! meadows. Momongalia: along Falling Run. Falrette: near Nuttallburg-L. IF. N.
C. squarrosa, Dewey.

River banks. Monongalia: mouth of Falling Rum. Fayette: near Nuttallhurg-L. W. N.
C. stricta, Lam.

Sphagnum swamp, Fayette: mal Nutallhum- $L$. IV. N.
C. torta, Boott.

C. prasina, Wrahl.

Faycter: hed of Keeneyo Corok, near Nuttallhum-L. II. N.
C. crinita, Lall!.
L. IV. N., MI. © (i.

Damp swales. (ienemal thenghout the state even in the higher momotains.

Filyotte: along ar lum insugar ('amp Hollon-L.W.N.
C. virescens, Muhl.

Tiri. costata, 1)"いल.
Banks. Fayette: mar Nottallume-L. IV. N.
C. triceps, Michx., rti: hirsuta, Bailey.

Dry patures. Woul: nar Kamawhat intion. Fayette: wroclland berter of swamp near Nuthallourg-L. W. 犬.
C. debilis, Michx., rur. Rudgei, Bailey.

On mossy boulders. Randolph: summit of Rich Mountain, alt. 2850 feet; mblained modows of 'TYgart's Valley River; Point Mountain, on perferlly dry rowk, alt. $3: 360 \mathrm{ft}$.

I very eommon sedge in the momntains on moses. bonders and atong runs. Beatiful growthe oreur all along the Blackwater Fork of ('heat. Farotte: near NotallhurgL. W. N.
C. venusta, Dewey, ror. minor, Boerk!.

Faycte: near Mastorton's swamp, Nutalloug-L. II. N.
C. gracillima, schw.

Low grounds. Tucker: near Falls of blackwater. Fayette: near Nutallhurg-1. W. N.
C. grisea, Wahl., "tr. angustifolia, Boott.

Farcte: on hanks near Nuttallhurg-L. IV. N:
C. glaucodea, Tuck.

Meadows: Fayette near Nuttallburg-I. IV. N.
C. laxiflora, Lam.

Ohio: on Thomas Hill near Whereling.
Fiur: latifolia, Boott.
Deep woods. Monongalia: banks of Day (reek. Wirt: banks of Straight ('reek. Fayette: near N tittallburg -L. IV. N.

IIIr: patulifolia, (ares.
Fayette: shally bank, near Nuttallburg-1. IV. N.
C. digitalis, Willd.

In deep wools. (irant: near Bayarl. Fayette: near Nuttallhurg-I. IV. N.
C. laxiculmis, A゙hw.
(Hady places. Fayette: near Nuttallburg - L. Wr. N.
C. plantaginea, Lam.

Rich wood. Faycte: near Nuttallhurg--L. IF. N.
C. varia. mi: colorata, Bailey.

C. Pennsylvanica, lall.
()hiw: weir Whombing- II. is (i.
C. communis. Bailer.
 II. I.
C. Jamesii, silncin.

C. polytrichoides. Muhl.
 II. N.
C. Fraseri. And. Frazer's Senter.

The following remark of Prof. T. (: Porter reme evident that this rave amb odd sedgee eame originally fo
 headwaters of the two Kamailsas:
 265, under (. lagop, ? whioh is ('. Fraseri, Indrews, ar these worle, Habitat in Tyger-lalley, Penneylvaniar, ", sicreme letben ot ricem. Kin, the (ierman samber who lected in Pennsybania, hought it home and his label res thus: "Deigher Walli in des Wilternus. Dr. (isay
 ley, is imeant Trgants Valley which lies further south Sirginia." In afoot-mote. Prof. Porter adde "a hox conta ing the Carices of Muhkenherghas just heendisconered (1s in the herbarium of the Learlegny, Philalelphia, and the la attacherl to the execimens of Kin's collection places Ty: Valley grope ammem Kenahway:

As the two Kamawhe lie cutirely within the state West Virginia, there semme to be little doubt as to the ph pricty of indurling this pecese in this Floma.

Since writing the above Mr. Nuttall has found a phis tiful station for this soeres ne:l N Nuttallharg in the fir Kanawhal rewion.
C. stipata. Muh].
 tallhurg--I. W. N. Morem: ne:ar Bhefteht
C. vulpinoidea, Michx.

Momomgalia: along Falling Ron. Ẅirt: near Bum ingspring. Fayette: near Nuttallorg-L. IV. N.
C. rosea shok.

Fayete: R. R. Mank mear Nutallhum-1. W. N.
lír. radiata, Dewey.
Open hlaces. Monongalia: near linmon Bottome.




L'tr. retroflexa, Torr.
Fayotre: Swampe place near Nutallhut-L. IV. N.
C. sparganioides, Muhl.

Fayette: Wet open bankenear Nutallhurg-L. W. N.
C. IMuhlenbergii, hchk., rar:

An intermediate betwern the type and raricty enerix, fide Baitey. PRamdolph: on an undrained meadow along Tyeart's Valley River, near Cricard.
lotr: enervis, Bontt.
Opens. Lewis: along Learling Creek.
C. cephalophora, Muhl.

Farette: banks near Nuttallhurg-L. IV. N.
C. canescens, L., coir. vulgaris, Bailey.

On a diry conglomerate rock. Randolph: summit of Rich Mountain, alt. $\because 8.50$ feet.
C. tribuloides, Wahl.

In a springy rill. Wood: near Kanawha Station.
J'u'. turbata, Bailey.
Fayette: low copse near Nuttallburg-L. W. N.
C. scoparia, schk.

Open swales. Monongalia: along Falling Run. Fayette: bank of river and in shagnum boy near Nuttall-burg-L. W. IV. : dry glade, Alderson Farm-L. W. N.

C straminea, Wild.
Dry soils. Fayette: near Nuttallburg-L. IV. N.

## GRAMINEX.

All doubtful forms have been kindly identified by Dr: Goo. Vasey.

## SPARTINA. Schreb.

S. cynosuroides. Willd. Freh-water ('ord-gras.

Ohio: om Bogrs Island-M. id (: Fiyette: neal Nuttallburg-L. IV. N゙.

## PASPALUM, L.

P. setaceum, Michx.

Sandy soils. Momongalia: at the end of the Hoge Back, Deeker's (reek near Morgantonn.

Var. ciliatifolium (Michx.)
Farette: near Nuttallhurg-I. II. N.
P. læve, Michx.

Fayctte: near Nuttallhurg-L. W. N.

## PANICUIVI, L.

P. SANGUINALE, L. Cral), or Crow-font (iress.
L. W. N.

Cultivated and waste grounds. Common throughout the state.
formu depauperata, Vaser.
Dry sterile fields. Monongalia: upalling Rom hefond the eampus.
P. proliferum, Lam.
M. \& E .

River banks. Monongalia: banks of the Momongahela. near diflington and Morgantown. Fayette: near Nut-tallomg-l.. W. N.

Far: geniculatum(Ell.), Vase?. (I. yenirnlatm, Ell.)
Wastr grounch. Aonongalia: near Jongantown. Fayette: near Nuttallhug-L. W. N.
P. capillare, L. "Tickle (irass." M. it (i.

Dry Ficlds. Monomgalia: ncar Momantown. (ireenbrier near White Sulphur Sbrings Falyette: near Nottall-hurg-li. II. N.

Fiti. campestre, fattinger.
Dry fiedds. Momomgalia: on a sterile hillside up Falling liun feyomit the ('ampus.
P. anceps, Michx.

Faycte: near Nuttallburg-l. ${ }^{\boldsymbol{I}}$. N.
P. agrostoides, Mulıl.

Wet meadowr. Kanawha: near Allen's Fork. Munmengralia: below the mouth of Falting lan. Ipshur: in a damp mealow near Lorent\%. Fayntte: narar NiattallhurgL. W. N.
P. virgatum, 1.

Monst samly soit. Monongaliat: streets of Morgamtown, growing betwen the bricks of walks, and secming to flomish in direct proportion to. the amount it is trodelen upon. Mason: hanks of the Ohin River near Point llowsant. Fayette: near Nintallhnti-1. IV. N.
P. latifolium, L.

Dow thickets. Wirt: near Burning Springs. (ireconhrier: near White Suphursprings. Monongalia: near litthe Falls. "Fayette: near Nuttallhure-L. W. N.
P. clandestinum, L. "Decr-tomerue (fras.:"

Damp miadows. Momongalia: (ommon throughout. Uprhur: near School fouse Simmit. Summers: ncat Riffe. Monroc: neal Wholf Creek. Fayette: neal Tuttallburg.

A very nutritions grasis; equecially enjoyed by horser. Our analysis gives it a nutrative matio of $1:+.24$.
P. depauperatum, Muhl.

Dry opens. Farette: near Nuttallburg-L. IV. N. Monongalia: at Roundibottoms.
P. dichotomum, L. L. IV. N. Common everywhere, throughout the state.
forma commune, Man.
Common, especially along river banks: Monongal ia and Marion: along the Monongahela River. Fayette: near Nuttallburg.
forme fasciculatum, Man.
Drier situations. Monongalia and Marion: along the F. M. if P. R. R.
formo gracile, Man.
Wet bottoms, usually along runs. Whool: in aswampy ditch near Kanawha Station. Wirt: in a weedy ditch near Reedy Ripple; in a spring rill in rich woods hear Straight Creek. Randolph: in a cold rill in deep woods, on Point Mountain, alt. $8,200 \mathrm{ft}$.

Vor．elatum．
Monomgalia：along the F．M．\＆R．R．R．．Below Little
 II．N．

P．pubescens，l：Ill．

P．Crus－galli．L．Parmyand（imas．L．UV．N．
Ditches and waste gromme．Momongalia：nean Mon－ gantown．（ivenlorier：mear Whitesupharsprings．Sum－ mers：Hear Ilintom．Fincte：near Nuttallbure．
lior：hispidum（Mtuhl．）．Tort．
Ditches．Momongalia：alon？the F．If．if I＇．R．R．， near Little Falls．

CHAMERAPHIS，K．Br．（1810）．

C．Glauca（L．）．Fux－tail rimis．L．II．ズ．．M．if（i． fommon throughout the state．wemerally in stubhle fiedds．

C．viridis（L．）．
Ruadsicles and cultivated tieds．Jackson：ncar sian－ dyville，and om Limestone Ridge．

C．Italica（L．）．
Farette：near Nuttallhurg－1．L．II．N．
CENCHRUS，L．
C．tribuloides，L．Hempehog（itats．Bur－grass． Ieffersm：near Harper＇s Ferry－M．it（t．

## MOMALOCENCHRUS，Mieg（1768．） <br> （Leersia，Swartz．17ヶs．）

H．Virginica（Willd．），Britt．White（irats．（Lerisin litumiert， Willa．）






「. dactyloides, L.


## ANDROPOGON, Royen.


Damp places. Rambolph: along Tygrt's Valler liter near Bevery. Momongaliat: ahong the Momongateda botow Morquntown. Fayete: near Kanawha Falk-James ; near Nuttallhurg-1. V. N. Smmmers: mear firembrior Stexkyarls; and along (ixechbrier River. Taylor: near (imaton.
A. scoparius, Hichix. "- Proom Serlge."

Dry wils. Monongalia: about Norgantown, plentiful. Welister: near Coper (ilade. Mason: near Point Pleasant. Taylor: noar (irafton, and in erery county visiter.

This speeies, which threatens to be our most pernicions and wide-spreal weed, is adrancing castward with the utmont agressiveness. It has absolutely no forder qualities, its nutritive ratio leeing only $1: 14.50$, and its valur ata fertilizer only 82.37 per dry ton. The method of combatting this pest is as yet a mere matter of comjecture.

The plant is reported from Brooke: ncar Wellshurg and Fowler's. Barbour: near Overtick, Pepper and Philiphi. Braxton: near Bulltown, Frametomn. Tate Creck, Elmyra and Newville. Cabell: near Union Ridge and Barboursville. Clay: noar ralley Fork. Doddridge: near Leomold, New Milton and Center Point. Faycte: near Fayetterille, Mountain Coreand Bects. (irant: Bear Merllex, Petershorg and (freendand. Grecmbres: near Frankford, Tront Taller and Fort Spring. Itamphite: near Shanesville, springficid and Three Churches. Hamisom: near Clarksurg, Lost Creek, Bridgeport, Wallace, Wifonhmg. Aclamiville, diond Hope and Nomnt Clare. Hardy: mear Morrefield and itardens-ille. Jefferson: near Kabletown. Jackson: near (frass Lick, handy. Wilaing, Belerove Odaville, Silverton and Kentuck. Kamawhat near Pocataligo, Blamdon and (iazil. Lewis: near Vadie, Camden, Walkersville amd Aberdeen. Lincoln: near Hamlin. Mercer: near Princeton and Now Hope. NoDowell: near Squire Jim. Monroce: Wear ('asthmers and Johnson': I Roads. Nason: near Nem IIaven, Crinmis Landing and Maggie. Marima: near Canton, Farmingtom, Eldom, Bartackeville, Hoult and (irays Flat. Monomgalia: near Morgantown. Pontnam: near: Huricanc, l'aralise, ('aponters and Confidence Meazants: near New Hebron. Preston: near MEsontown. Eq/om amd Amblershag. Ritchie: near Ritchie C. H. Berea and Commallis. Ramidph: near Fhorence and
1.ee Behl. Rome: near Peneil, Newton, Lomerville, Clio, Reedy and C'ountsrille. Raleigh: near Table Rock, Egeria and lakeigh C. H. Summers: near Forest Hill, Talentt. (layton and Indian Mills, Taylor: near Knotteville, Thornton, drafton and Meadlamd. TYler: near Wiek and Long Reach. Tucker: near Texas, st. (Eeorges and Hendricks. Upshur: near Lalwrence, Orephill, Evergreen, French Creck and Hembock. Wayme: near Adkin's Mills and Egypt. Wetzel: near New Martinsville. Wirt: near Elizabeth, Burning springs, Remdy Ripple aud Lac. Wood: near Blemerhasett and Kamawha Station. Webster: near Replete, and Weleh cilarde.
A. Virginicus, 1.

Filyette: near Nuttallhurg-i. W. N. N.

## CHRYSOPOGON, Trin.

C. nutans(L.), Benth. Indian Grass. Wool (irass.

Falette: near Nattallburg-L. IV. N.

## PHLARIS, L.

P. arundinacea, L. Recel Canary-grass.

Wet places. Wood. in aspring rill near Kanawha Station.

> ARISTIDA, L.
A. dichotoma, L. Puverty (hrass.

Fayette: near Nuttallhurg-L. IV. N.
A. oligantha, Michx. Tripleawned Gras:.

Dry hanks. Kanawha: near Charleston-barnes.
A. lanata, Poir.

Fayette: near Nuttallburg-l. IV. N.

## IVUHLENBERGIA, Schreber.

M. sobolifera(Muhl.), Trin.

Fayette: near Nuttallhurg-L. W. N.
MI. Mexicana(L.), Trin.

Faycte: noar Nuttallhurg-1. IV. N. Monongalia on campus, Morquntown.

M sylvatica(Torr.), Torr di (imy.
Faycte: Hear Noutalibur-L. W. N.

M．diffusa，selueh．Nimble Will．
 Faloute：Nuttallhom！e－1」 ${ }^{(1)}$ ．N．

## BRACHYELYTRUM，Beauv．

B．aristosum（Michx．），B．A．P．（B．Miskutum，B（aluv．） Rocky woors．Webster：near Welch（ilade．＇Jucker： near the Falls of Plackwater．Fayotto：near Nuttallhurg－ ［． $1 \mathrm{H}^{\top}$ ．N．

T＇u．glabxatum，Vasey，MSん．
A new variéty discovered her Mr．1．WV．Ninttall．It agres with the spec裡e except that it is pertectly smooth，and has an awn pointed recond ghme which is about onc－half the length of the fowering glume．Its most striking peculiarity is that it has invariahly two culms from cach rootstock．

High，rocky woods．Fayette：near Nuttallbarg，lare $-\mathrm{L} . \mathrm{W} . \mathrm{N}$ ．

## PHIEUM，L．

P．PRATENSE．I．Timothy．L．W．N．，M．\＆G． A common escape from cultivation throughout the State．Found even in the forests of the highest Illeghanies．

## AGROSTIS， $\mathbb{I}$ ．

A．ALBA，L．Whitr Bent－grass．
Meadows and fields．A frequent escaue in the western counties．Fayette：near Nuttalburg－l． $\mathrm{NI}^{\mathrm{T}}$ ．N．

Far．VULGARIS（With．），Thum．Red Tol．
1． 11 ．N．
Meadows the fields．Common thronehont the State．
Formo，artistata．
Famp meadowlands．Nomongalia ：along Falling Rum
A．prennans（Walt．），Turkerm．Thin Grass．
Damp，shady places．Randolph：along Cheat River inclearings．Monongalia：near Little Falls．Fayette：near Nuttallburg－L．IV．N．

A．hiemais（Walt．），B．S．P．Hair（irass．A．scalra，Wilhd． Moist Helds．Preston：near Tera Alta Fayette： near Nuttallburg－L．W ．N

## CINNA, L

C. arundinacea, 1. Wiont licent-aras.

IV (et paces. Ramblolph: along Tygat's Valley Rower near Hattonsville. Fanetc: near Nottallburs-L. II: N.

## ARRHENATHERUM, Beauv.


Fichls and yards. Monomgalia, aboundant and hecombing a murance.
 (wop) of Orehard-grass last cationn, was almost completely this speces this rear. Our amalys of this wrass shens- a mutritire ratio of only $1: 8.13$. Falette: near Nuttalihume L. WI. N.

## HOLCUS, L.

H. Lanatus, L. Velret (irass. "Ond White Ton." "Feather (irass."
Frequent in damp mealons:. Nomongalia: along the F. M. © P. R. R. Tpehur: wear Laturentz. Randolph: along Tyart's Valler River. (itant: near Bayarel. Nieholas: in Colleit's crarle. Fayette: mear Hawk's Jest, and KanaWhat Falls- lame; N Nittall)urg-1. IF. N.

## DANTHONIA, DC.

D. spicata(l.), Bualy. Witd Oat-grass.
I) Y soil. Monongalia: near Becchwoods amel Little Falls. Ramdolph: on a dry loukder, summit of Point Momtain, alt. :3.50 ft. Fayette: near Nuttallourg-L. W. N.
D. compressa, Iustin.

By lanke. Tucker: near the Falls of Backwater. Fayette: hear Nuttallourg-1. 11 . N.

## ELIEUSINE, Gærtn.

E. Indica (L.), Cacrtn. Dog's Tail or Wire (irast.

Yards and streets. Kanawha: heal Cammellom. Monongalia: near Morgantown. Mason: near Point Pleazant, Berkeles: near Martiniohurg. Falcote: ncar NuttallhargL. II. ※

Fande and lawns. Monomgaliat : on the campus.

S．cuprea Minh．．）Tall Rom Toy．
Dey or samly focks．Momongata：man litth Fralls．


## EATONIA．Raf．

E．obtusata（Michu．），（i：ay．

E．Pennsylvanica（がッドゅ），（imy．
 the rampus．

## ERAGROSTIS，Reauv．

 shores of rivers．Summers：atong New River near Hinton．Wood：akong the Ohio River near Parkersharg． Mason：near Point Pleasant．Ohin：near Wheding－ M．it

E．Minor，illost．
E．porchinles，Beally．
Waste paters．Mason ：near Point Pleasant．
E．MAJOR，Hust．
Faratte：near Nuttallhurg－L．IV．N．
E．pilosa（L．），Bealuv．
Jefferson：near Harper＇s Ferry－M．\＆fi．Faydte： near Nuttallomg－1．W．N．

E．Purshii，sharader．
Sterile or sandy soils．Monongalia：near Little Falts，and on the campus．

E，capillaris，（l．），Nes．
Fayette：near Nuttallhure－L．W．N．
E．Frankii，Mere
Shores of rivers fummers：along New River mear Hinton．

## MELICA，L．

M．mutica，Wralt．
lich soil．F＇ayette：near Nuttallhurg－L．Wr．N．

 II. N.

## UNIOLA, L.

U. latifolia, Mirh..

DACTYLIS, L.
D. Glomerata. L. Oreharl (itats. L. IV. N.

Fields and mealdis: ('ommon thoughout. "Apedially in shady platers.

## POA, $L$.


Ohio: neaf Wheeling-M. di (i. Farrotte: near Non-tallhurg-l. $11 . N$.
P. COMPRESSA, J. Wite (ims.
J. 11.
sterilesuil in erevire of rocks. Plentiful themghout the state.
fin'mu depauperata.
 at the rasmate.
P. pratensis, L. IBhe (imas.

1. $11 . \mathrm{N}$
 state, wen in the higher dheghames.
P. trivalis, L. . Romghinh Mandow-ivas.
 la at Little Fialls.
P. sylvestris, (imat:

P. alsodes, (iray.


P. fiexuosa. Muhl. (mut II:ahl.).

TyRer: near Long Reach.
P. brevifolia, Muht.

Ohin: Woorls Rom mear Wherding- N1. di. Fiarotte:


PANICULARIA, F゙alッ: (17(i:)
(Glyeria. R. Br. 1810.)
P. Canadensis(Mich.),

P. elongata(Tom.). Nannaí (imss.

Wet woods. Whaster: along the bidge of Bulfalo liall Mountain. Fayette: mad Nuttallhurg-l. IV. N.
P. nervata(Wille.). Foul Mantow-wrass.

1. II. N.

firmu. major.
Monongatia: samd batis in Monomgathela River near Little Falls.

## FESTUCA. L.

F. octofiora, N:alt. (F. trum!lw, Willd.)
bry open worls. Wiot: hillsabove burning sprogrs.
F. Elatior, 1. Alembew Fesulu.

Fielfs. Momongatia: near Berdmonds. Farette: near Kanawha River--Jances; near Nuttallbur--L. IV. N.
F. pratensis, Ifuls.

Meadows. Wrood: near Kamawha station: and moch where frequent.
F. nutans, Spreng.

Rocky woods. Randolph: on dry houkler, summit of Rich Mountain. Webster : roadsides near Long Crlade. Fayette: near Nuttallhurg--L. W. N.

## BROMUS, L.

B. MoLLIS, L. Suft (hess.

Wheat fieds and wastu gromeds. Monongalia: on the campus.
B. SECALINUS. L. Cheat on Chess. IJ.N., M. Mt:

Wheat fieldand waste placer. A tow common masance.
B. RACEmosus. 1. Upight Ches-
L. II. N.
Ficlds common throughout the state.
B. ciliatus, 1.

River hamke. Woorl: alonge the Lital Kanawhal River near Kamawh station. Momongalaa: along the Monomgahelal hear little Falls.

## LOLIUM, L.





## ELYMUS, L.

E. Virginicus, L. Virginia Wild-re.


E. Canadensis. L,., rir: glaucifolius Mnhl.), (imu:.

Dry hamk and roadsides. Kamawha: alonir s-Mile (reek Inamon: man Point Pleasant. Fayotte: near Nut-

E. striatus, Willd.

Roreky hanks. Momongalia: atong the Momongalmela niver belon Morgantown.
lici. villosus, (iral.
Nomongalia: hamk of the Momongahela lomaw Morgalown.

> HYSTRIX, Muench. (17:4.)
> (Asprelta, Willh. 1s09.)
H. Hystrix(L.) Buttlerush (imss.
L. W. N.

 Whaser and Nicholas comotio. Fayette: along the famber River; near (ianley Mombains; near Nottallhurg: near Kamanha Falls-James. Simmome: near Hintom. Hason: near Point Pleasant. Harism: near Lamborpurt.

## GYMNOSPERMÆ.

## CONIFER A.

## THUJ.A, L.

T. occidentalis', L. Arhor Vita.

Dry, rocky hills. Minemal on Konhby Monmains. (irant: near Potershurg.

JUNIPERUS, 1.

J. communis, L. 'Juniper'.
bry sterile hills. Woorl: mar Kamawha station. Mincral: on Knobly Mountains. Fayette: ncar Nuttallong - L. 11 . N.
J. Virginiana, L. Rexl C'exlar. Sarin. If. díl. Wool : mar Lockhart's Run and Kamawha Station. Wirt: on Nigh-rut IIill. Fayette: hear ('rescent ; Kamawha Falls-.James; Nuttallbur-L. IV. N. Mincral: on Knobby Mountains. Jefferwon: alonge the Potomac: Masom: near Point Pleasant. Berkeler: near Martinstmog. Monomgalia: near Morgantown. Nerear: near Inglexile. Jackenn amb Mason: along the Ohio liver: Cabell: along the ('. © O. R. R., from Ifuntington, to sit. Albans in Kanawha countr.

TAXUS, L.
T. baccata, L.. rar. Canadensis( Willd.), (iray. "(reeping Hemlock." Yew.
Damp hillsile wools. Marion: near the month of Buflan (roek-K. D. Walker. Taylor: near Nuzums. Faycttr: along Williams River.

## PINUS, L.

P. strobus, L. White line.

Wood: near Learhtown. Wirt: hear Bumbingspring. (Gllmm: near White Pine amd Laturel Rum. Pocahontas: near sunset. Cirembrier: near (aldwell. Fayente: near Nuttallhare, pobahly introduced-I. II. N.
P. Taeda, L. Loblolly, or Md-tied Pince

Opens. Wrome: near Kamawhat station. Mincral. Hammenime and handy: along the tahle-lands.
P. rigida. Nill. I'it. lı line.

Kanawha: near (hartexton- Dables. Fatette: mear


P. pungens, Micha. f. T:able Monntain Pinc.
II. © (i.
 Mineral in K Kobby Mountain. Pemdetom: foot hills of



#### Abstract

P. Virginiana, Mill. Firmbl Pinc. ( P. imos. Ait ) Sterile hills. (irembrier: near ('aldwell. Favetto: near Nuttallhurg, a common freond growth-l. Iit. N. Berkehey: near Martinsharg. Merer: mear Ingleside. P. echinata, 'Mill. I'cllow l'ine. (I'. mitis. Michx.)

Wood: bear hachatown. Ramoluhh: near Valley


 Bend. Summers: near Hintom.
## PICEA, Link.


#### Abstract

  Magnitioent forest in the following regions where it grows at elevations varying from from 2. 000 to +0 (0) ft . :




This ristmate will porably fall under the actual amount.

Summers: along (frenhber river near Talkott. Merrer: near Ingleside.

## TSUGA, Carrier.

T. Canadensis(l.). Carr. Hemlock. Hemlock Spruce. Ibies C'enerlensix, Miehx. MI. if (i. Rocky wools. Wirt: along Stíaight (reek. Calhoun: on Lamel Fon. Nichonat: hear Beaver Mills. (irant:
 mear Toma Alta. Fayette: near Nutallhury, pontifol-L.



## ABIES，Miller．

A．balsamea，Miller．＂Bixtw Pine．＂Bahmonf（ibleal Pir．Bal－ ＊an l゙ir．
 gond（＇hat Bridge along the Ntanton Pike．

## SELAGINELLE $\mathbb{E}$ ．

SELAGINELLA，Beauv．
S．rupestris（L．），Mpring．
Jefferon：bear Hapme Fory－M．di（i．

## LYCOPODIACE ※．

## LYCOPODIUM，L．

L．Iucidulum，Michx．
M．※。
Cobl，damp wools．（irant：near Batyarl．Randoph： near Cheat Bridge．（ibher：mear（Alenville－V．M．Farette： near Nutallhur，alt．2000 ft．－L．W．N．Tucke：mear bavis．

L．annotium，L．
Cold wools．Ramboph：plentiful along the west shop of Cheat Momatains mear Cheat Bridgr．Fiyette：near Nuttallburg－L．W．N．
 Deep，moist womets．With the last，plentiful．

L．clavatum，L．Cluh，Moss．
I）Wrooks．Common throughout the state．
L．complanatum，L．Trailing（＇bristman（ireen．II．\＆（i．
Deep eoniferous words．In the Alleghanies of errant． Tucker，Randohphand Poeahontas comaties．Fayctte：ncal Nuttallhur－L．IV．N．

## OPHIOGLOSSACE 出． OPHIOGLOSSUM，L．

O．vulgatum，L．Mider＇s Tongue．
IV et meadows and woods．（rilmer：near（ilemville－
V. M.

## BOTRYCHIUIM. Sw.


Wry worls. Momongalia, Manom, Preton: in Lamel


liti: australe(R. Br: ), Eatom.
(itas. prace. Monomgalia: on the ("ampur mear Morquitovil.
liı: rutæfolium, Man.

Liti: obliquum (Mhlu.), Milde.
Fayette: near Nutallhurg, dry opens, alt. 2000) ft. L. IV. N. Oho: hills hack of Whocling-II. (i. Momongalia: on the campur neal Morgantown.

For dissectum(sureng), Mildr.
(flarles. Fayette: near Nottallhare. alt. 2000 itt.-1.

B. Virginianum (L.), sw. "Imlicator." It. \& (i.

Rich woors. (ivant: nowr hayarl. Ramdulph: on Rich Monntains. Momongalia: ('heat river near ('amp Eden. (iihmer: near Clemville. Jackem: near Ripler, where it is often called "Indicator" at its growth is thought to indicate the presence of (rinseng in the lowatity.

## PTERIDOPHYTA.

FILICES. POLYPODIUM, L.

 anha: mear (harleston-Barnes ; wear Cobllurg-dames. (iihmer: near (ilenville-V. M. Fayette: mear Nuttallhare L. W. X. (imant: mear Bayard and along Buffalo (roek. Monomgalia: along Glant Kiver. Tucker: along Bearer Creek and Blackwates. Ramdolph: on Rich and Cheat Mombtains. (ireenloricr: near White Sulphur spmes. Summers: near lintom. Melowell : mear Elikhm.

Formu biserrata, mihi.
A fom found upon moss houlders along the Blackwater Fork of ('heat; with regularly doully-serrate divisions of the thinish fromds.
P. incanum, Niw.

Rock and tree trunks. Faycto: near Hawk's Nent -Porter.

## CHEILANTHES, Sw.

C. vestita(spreng.), Sw. Lip, Fern.

Racky plares. Jefferson: near Harper's Ferre-M. did.
C. lanuginosa, Nutt. Woul! Lip-fern.

Clifis. Faycte: Mear Kamawh Fall:-James.

## PELL $\mathbb{E A}$. Link.

P. atropurpurea(L.i, Link, Cliff Brake. MI dic. Dry rocke. Falyette: near Nuttallhurg, rare--L. IV. N. Merer: near Beaver Spring on expmed ledger, phentiful.

## PTERIS, L.

P. aquilina. L. Brake or Bracken. M. 心 (i.

Thickets and hillwides. Common throughout. $U_{p}$ shur: at shool-house summit. Welster: in Cuper filate.
 near ※̈ntablumq－1．II．N．

## ADIANTUM，L．

E．pedatum，L．Maiclen Hatr Finn．L．IV．N．．V．M．．M．it（i．
Rich monist wowls．（＇mmmon throughout ther state．

## ASPLENIUM，L．

A．pinnatifidum（Mnh），Nott．Splemかったt．

 $-1 . W^{*}$

A．Trichomanes，L．
M．（i）
Shaded ditfe．IVirt：near Buming Smmer．Noho－ lat：：abong Peter（＇reck．Farette＇：hear Antallhurg－L．II． N．：and along the（ianley liver．Kamatha：near（ballomger
 sulphur springs．

A．platyneuron（L．），Oakes．
Frequent in rocky open woods．Kanawha：near
 Wirt：neal Buming springs．

A．montanum．Will．
（litts：aml rocks．Fayette：near Hanki：Nest－Pon－



 phentiful．

A．angustifolium，Miलx．
Riteh words Ohio：near Wheoling－M．di（i．Fily－ （tte：near Nottallours－L．IN．N．

A．acrostichoides，siw．
（．1．Thelypharomides．Michx．）
Rich wowls．Kimawhat near（harleaton－Jamos． Farette：near Nutallory－l．W．N．Jefferom：near Har－ pers Fery－N．©

A．Filix－fœmina L．），Bemb．
 ette：mear Nuttallour－L．II．天．（ohin：near Wherling－ M．©（i．Turker：near the Falls of blackwater．

## CAMPTOSORUS, Link.

C. rhizophyllus(1.), Link. Walking Finti. Walking Leaf.
shanded meks and emglomerato bomblers. Wrid: near Bumang spring: Fayetto: along the (iankey livar; near Kamawha Falls- -anco. Tucker: at blarkwater Falls.
 .ames. Paycte: mear Noftallburg-L. W. N. Monongalia: near Morgantown:

## PHEGOPTERIS, Fee.


Damp woods. (ihmer: near(ilensilla-V. MI. Trueker: near the Fatls of Blackwater.
P. hexagonoptera(l.), Fer.

Open wome. (iilner: near Glenville-V. M. Finyette: near Nutallbure, shaded fencerows and deep woodL. IV. N. Ohio: near Wheeling-M. di.
P. Dryopteris(1.), Fer.

Recky woock. I'reston: near lowleshug-M. it (i.

## ASPIDIUM, Sw.

A. Thelypteris(L.), Sw. Shicld-fern.

Marshy Meatows. Ohio: near Whecling-M. it (i.

Moist woods. Randolph: on Rich Mountain, alt. 1N.50 feet. Fayette: near Nuttallburg-L. IV. N.: near Kanawha Falls-James. Kamawha: near (harkeston-James.
A. fragrans, swartz.

Opens. Pocahontas: near summit of spruce Knob, alt: $t 800 \mathrm{ft}$.. where it is cut and cured for fodder.
A. spinulosum, sw. Wood-fern.

Damp wools. Wirt: above Burning springs. Ramdolph: on Rich Momatain. Fayette: ncar Nuttallburg-L. IV. K. Preston : near Terra Ilta. AMeDowell: nean Elkhorn.

Vili:
In deep, wet wools under Black suruce. Rendodph: near ( Sheat Bridger, and sharlewof-Death.

Fir. intermedium(Willd.), Eaton. ('ommon W' oorl-fion.
Derp rich woode throughout (irant. Tucker, Randolph and Pocahontas ('ountics. Thehur: near Beoch and Middle Fork. Fayette: near Nottallhur-1. IV. N.

T'u: dilatatum(ぶw.). Hook.

A. cristatum(1.) sw.

Sw:mpernac. Preston: near ('rambery Summit-

A. Goldianum, Hook.


A. Filix-mas(L.) siw. Malkem.

A. marginale(1.) sw. M. N(i.

Row ky hillsides in rich wowls. (iilmer: near (iken-
 mear Nuttallhur-l. IV. N. (irant: near layame.
A. asrostichoides Mirhx.). Sw. ('hnistmas Fern.

Roneky wowls. Tphar: lexomd Burkhammon. Randolph: near ('ricarl. (iilmer: near flemville-V. MI. Filyctte: near Nuttallharg-L. W. N.

Pirr. Schweinitzii, (Beck.), B. S. I'. Vir, incismm, (imaly.
 (i)

## CYSTOPTERIS, Bernh.

C. bulbifera(L.), Bemh. Bladder-fom.

Shaded ravines. Ohio: near Wheeling-II. dit. Fayrote: near Nuttalllome mare-L. W. N.
C. fragilis(L..), Bernh.
M. if

Shaty chifis. Fayette: near (iankey Bridye along the Kanawha; Bear Nuttallisur-h. IV. N.

## ONOCLEA. L.

O. sensibilis. L. Manitiverorn. M. ©

Inoist mealows. Momongalia: the Flats. (iblmer:




WOODSIA. R. Br.
W. obtusa(s"men.). Tor II. $\mathrm{di}^{2}$
 ‥ Ramdobla: near Crimad.

## DICKSONIA, L'Her.

D. punctilobula(Michx.), (ixay. Dickem's Firn. I). pilmeinsrulu, Willd.

 dant. (iihmer: mear (ilenville-V. M. Finveta: mear Nint-



## OSIMUNDA, L.

O. regalis, L. Ruyal Firn.
II. ©

Swampy mealows. Voshur: near Rambolph comaty line on Stamon l'ike. Wraster: Vper Cilacke (iilmer: near (ilemville-V. M Fayettr: near Nottallbur-L. W. N. Prestom: near Terra Nita and Cold Sming. Alomongaliat near Camp Eden. Ar-Dowell: near Elkhom.
O. Claytoniana, L. ('layton's Flowering Fom.
 dis. Fiyette: near Nuttallhurg-L. IV. N.
O. cinnamomea, L. ('innammon Fern.

Marshy places. Foyette: near Nuttallurg, alt. $2(000$ ft.-L. II'. N゙. Preston: near ('ranberry fummit-II. dr (r. Ramdolph: along Shavers Fork.

## EQUISETACE $\nrightarrow$

## EQUISETUM, L.

E. arvense, L. Fiell Horsetail. L. W. N., M. © G. Moist, samly fiedds. Frepuent throughont the state.

E sylvaticum. 1 .
Damp rich wooks. Mercer: near Ada. Monongalia: ne:r Little Falls.
E. hyemale. L. Fcouring Rush.

Whet woold banks. Wirt: near Buming Spming
E. lævigatum, Braun.

Clay banks along stram. Mercer: near [ngleside.

## BRYOPHYTA.

## SPHAGNA.

## SPHAGNUM, L.

S. cymbifolium, Ehrh.
('ommonon in wet grarles and in derg' womeded rills. Preston: Kingwood and Terra Alta. Monomgalia: alonge

 forests.

## MUSCI.

( All the speries in this ratse hate pasiod therongh the hames of Mrs. E. (i. Bititom, who has kimelly determined them for this Floma.)

## POLYTRICHACE A

## POLYTRICHUM, L.

P. commune, L.

Preston: on wround in. open womeds, Terta Alta.

Monongalia: on ground, Norgatown (1.336) : a lawe form on ground Tilh; Run (1600) ; an extrenely small form. with minute "apsule on wandetome boulder, loer cit. (1611). Mereer: on ground in wak worels, Bluefield (14.93). (irant: (in decaycel logs, Bayard. Fayette: near NutallhuryL. W. N.
P. piliferum, sichret.

Monmgalia: onl bare samditome ledge, Falling Run, (129! ! . )
P. tenue, Menz. Poymuntum liererietmle, Reaus: Momongalia: madside hanke, Aorgantown on grouml, Tjhか: Run (1612). Fayette: near Nuttallhur-L. W. N.

## CATHARINEA, Ehrh.

C. angustata. Bril.
 Monongalia: on gromed in marthy spot. Morgantenw
 attr: mear Nuttallhum-I. W. N.

Momongalia: on !
 ctte: hear Nuttallhurg-I. W. N.

## GEORGIACE E $^{\text {G }}$

GEORGIA, Ehrh.
G. pellucida(L.), Rabenh. Trhmpis. welluridn, Hurw. Monomgalia: on samdstome bouldor, Tjblis Rum (160) (i, $1610,1634)$.

## FISSIDENTACE E FISSIDENS, Hedw.

F. adiantoides(1.), Medw.
 $(1+23)$.
F. decipiens, Sehimp.

Fayerte: near Nottallburg-L. W. N.

## IMNIACER

## ASTROPHYLLUM, Neck.

A syivaticum, lindl.

Monongelia: on suil, Morgantown (1359) : on "dry bonder, ('heat River (1397); on stone in swamps sot,


A rostratrum (hchrad.), Lindl).
(frant: on wet logs, Bayarl. Xomongalia: on decaral wrod. The Flats (137t). Mrel)owell: on ronts in rill. Elkhom (1-2 $2: 3$ ).
A. punctatum(L.) Limdl). Mnimm pmonctatum (L.) Hedw.

A. hornum(L.). Limil.

Monongalia: on samb in rill, Tibhs Run (1604). Fayette: near Nuttallıurg-J. IV. N.

## SPH ÆROCEPHALUS，Neck．

 （E）ぶい。
 （two（1：3：！）：hanging fom sambenme boulder．Tiblis Rum

 near Nuttallhug－i．．W．N．

## BARTRAMIACEA． <br> BARTRAMIA．Hedw．

B．pomiformis（L．）．Hwlw．
Mereer：on brole deal trex，liluchidd（ $1+5 \mathrm{~s}$ ）．Monom－ gatia：on samelstone houlder，deep woods，Tibb＇s Run（160！）． Fayette：near Nuttallburg－L．II．N．
lif．crispa（心ッ．），Schimp．


## PHILONOTIS，Brid．

P．fontana（1．），Brid．


## BRYACE <br> BRYUM，L．

B．bimum，schrel．
Monongalia：on shate umber ledge．（assville（142t．）
B：argenteum，L，
Monomgalia：fissure between bricks of walks，Morgan－ town（1：3：0）．Fayette：near Nutallinug－L．W．N．
 an dec：uyed wood，Elkhom（1．50：2）．

## LEPTOBRYUM，Wils．

L．pyriforme（L．），Wilk．

Monongalia：on samdstome boulder，Tibhis Run（161ti． $1633)$.

## FUNARIACE <br> FUNARIA，Schreb．

F．hygrometica（L．．），silth．
Monomqulia：in wil on samktome boulder．Thith：limu （1615．1617）．Fayotte：ncal Nuttallhaty－1．．II．N．

Tror．patula，Br：is sch．
Momongalia：on roek lining a pring，the Flats


F flavicans，Michx．
Momongalia：（1n danur same in a＂hmoning．＂Little Falls（1ごす）；loe．cit．，Mormatown（19：3！！）

## PHYSCOMITRIUM，Brid．

P．pyriforme（L．）．Brict．
Manomgalia：（ont top of soil of fiedel that had heen phonged and harowed only eight days before，Morgantonn （1278）：wh ground marshy sut，Dille＇s（1403）．

## TORTULACE E ．

## LEERSIA，Hedw．

L．streptocarpa（Hedw．），Lindl）．L．romtonta，Wolf．Eurulyptu atrentiocarpe．Hewlw．

TORTULA，L．


## BARBULA，Hedw．

B．humilis，Hed川：
13．maithera，sichwimp．
Mereer：roots of nak，Bluefield（144）．Finette： Nuttallharg－L．IV．．．

B．tortuosa（L．），Wel）\＆Mohr．
Momongalia：in sand under boubler．C＇amp＇Eden （139．5）．

## MOLLIA，Schrank．

M．viridula（L．），Lindb．
Wésisiar rividula．Herlw．
Mchowell：on gromad，open wonels，Elkhom（14！6． 1497）．Fiyette：near Nuttallhurg－L． $\mathrm{IV}^{\circ}$ ．N．

## DICRANACERE． <br> LEUCOBRYUIM．Hampe．

L．glaucum（L．）．ぶゅimp．
Monengalia：on smond in wools，The Flats（1899）． Fagette：Nuttallhurq－I．W．N．

## DICRANODONTIUM，Br．\＆Sch．

## D．Virginicus，Britt．III．Sı．nuv．

Monongalia：on sandstome beulder along a womellamd path．Tibss Run（163．5）．

Phante hight glosey ircen，stem．matted below by a fed tomentum，leafy nearly to apex，denulate roughened
 straight or culded and twisted，often $\mathrm{I}_{\mathrm{m}} \mathrm{mm}$ ．long，barrowly subulate from a short，thick base，caduens ones with a long． slender，smoth point；persistent ones serate，hade inflexal cells densely chlormhyilose，filled with uil ghobules，those of the basal angles．clear．Direcous，the antherdia terminal in conspicuous heads，hracts brown at hase，apex subu－ late，serrate；perichatial bracts 3－tmm．long，from a short hase，sudemly subulate，dentate at apex；perlicels latemal hy the growth of innovations， $1 \frac{1}{2}-2 \mathrm{~cm}$ ．long，pale，gloss． adlow，twisted in two directions，very shender，ar uate when young，becoming emet hefore capsules mature．（＇apsule cerl－ indric，ribbed only at the mouth， $1 \frac{1}{2}-2 \mathrm{~mm}$ ．long．beak staight of curved，shonter than the capsule，peristome hright red， mot deep set，teecth split merpually to middle．strinlate at haser． pale and granulose above，ammins nome．pores small．alyb－ tra：cucullate，2mm．long，heaked，entire．Maturing in sum－ mer．

Differs from Eurnpean epecimens of I I Imationtire eot－ lected by Seringe；in the longer，paler，more slender，scartely arcuate pedicels，longer capsules，peristome not deep set，and teeth split only to the midule，more miten than fiemed in the Bryologia Eumpea，Tabsesis．It may be diatinguished from Campylmus：I ioginicus，also remarkahio for its canducous leaves，by the longer；more slender subulate point，whish is contire or＇minutely serrate and smooth on the back，hey the thick base，with inflexed hades．and hy the shape of the hasal ceils at the angles．
 not Brisl．
Alomongalia：on andstome boulder deep woole，Tibli： R．101（1596）．

Plant slight rellowish green，silky，cesplonse；stems matted with rufous tomentum at base， $1-3 \mathrm{~cm}$ ．long，a few

denmbate, ronghemed her the framente of the slighty cadn-

 ing tublay ahowe with imolled margins, basal angles not ammederd, tilled be large hyalime erells to the hase of the Imede brown rein, these of the hade ohlong or :
 the margin, rein thick, exomrent into a dentate skomer tip. rough on back. Dicerous, perichection 5-7mm, long, hatete sheathing half their length, tapering to a long, slender, ofoseurely morate tip, wuter sharter, abruptly submate, mome *haply somate; pedicels menved, burying the (apsubes among the baves, becoming exed when olf, J-smm. Iong,
 Wric with a distimet neek, length about 1 mm . Withent the liel When is as long as the rest of the eapsule, with at staght leak, cal!ptra cucullate, entire; peristomic red, comnicont, teeth deep set, slember, split to midele, or perforate to lasis, striohate below, gramulose above; amoulus nome, mouth bordered hy a dense, dark rim. Maturing in summary, old (a), sules persistent, not sulcate.

Differs from European specimens of I). (omyimstor in the structure of the base of the leaf, lacking the suddenly inilated basal anticks; differing ako in the cells above the hase, teeth not ashit te hase, occasionally only perforate. From $H$ ). (ior-
 Fhorter, stontor, mom armate podicels, samaller (alpsules, and lomger sheathing perichatima.

Thengh the kimencos of Dr. Robinson I have been ahle to compare these epecimens with those collected by Sullivant on Grandfather Mt. in 1st3. His ako are fruiting, and an exeellent drawing is preserved, hence 1 ann able to assert that the specimens are abost identical. sullivantsshowing no naked stems, hat many of the heares ame caducous. Dr. Braithwaite kindly compared the West Virginia specimons with Compylopus purifomis sending me specimens of this and the rablety Mulleri, and skectehes of the bases of the leaves. It is erident that sullivant was mistaken in referring his specimens to $C$ fremosus, as they are mone closely allied to Dicrumodentim lomgirostir, var. ulpiuns.

## DICRANUM, Hedw.

## D. flagellare, Hedw.

Monongalia: on dexayed oak log. Tibbs Run (1593.) Faycette: Nuttallhurg-L. $11^{*}$. N.
D. scoparium, (1.), Hedw.

Grant: on ground in danm woods. Bayard. Monongalia: on ground, the Flats (1398): om decaped log, Georgen




D．fulvum．llowk．


## DICRANELLA，Schimp




入utallhur－［．W．．．．

## DITRICHUM，TIMM．




 Monomgalia：on clay of enen wools，Tihnis Run（1．598）．


CERATODON，Bria．
C．puxpureus（1．．）liric．
Itomongalial：ond dry sandstome boulder．Momeantown
 talllurg－1．II．N．

## GRIINIMIACEAE

## WEISSIA，Ehrh．

W．Americana（l＇itlis）．，Limll．（＇hot Huthinsiar．Sichimp． Monomgalia：on dre saldetome boulder，C：mp Eilan （13：9）．Farette：Nuttallimer－l．IV．N．

## ORTHOTRICHUM，Hedw．

O．Bramii，Br：\＆sch．
（）．बtran！ulutum，Be：lux．
Manongalia：on batk living apple trer．Morgantown （12らく）

## HYPNACER

## THUIDIUM，Br．\＆Sch．


（emant：on demaded loge．Bayand．Monomgalia：on





## ANOMODON，Hook．\＆Tayl．

A．rostratus（llchw．），Rchimp．


 （536）．Fiayetto：Nuttallhury－L．II N．

A．attenuatus（hched．），IIuclm．
 Merer：completely covering large limestone helges in open woods，Beaver spring（1．5：3）．

## AMBLYSTEGIUM，Br．\＆S Sch．

A．adnatum，Her川．
Me．Dowell：on flat stonce in deel wometis，Fikhorn （1498）．

A．serpens（L．），Br．\＆がh．
Monongalia：on wet roten longe（iranville（12！）N）：（on twigs in rill，Dilles（1402）．Mr．Wowell：on pethbe in derp works，Elkhorn（1．519）．

Liu＇orthocladon（Bealis：），Aust．
Monongalia：on rocks lining a spring，The Flat，

A．varium（Helw．）Lindl）．A．medirale，Br．\＆sich．
Monongatia：on rocks liningasming，The Flat－（18it）； （1）wet rocke in stream．Cassille（1421）．Nercer：on lime－ stone ridge，Beaver spring（15：3）：on decayed loge，Bluetiold （148s．1．s：（a）．Mr：howell：on top of stump in dark，deep wooks，Elkhom（15．21）．

Merer：：matadone lemge in rill，Bearer spring


A．riparium（L．），Br．© N．h．
Monongalia：（1）stonc in stream，Falling Run（13：34） Mc：Dowell：loc．，（it．，Elkhom（1．21？）．
A．chrysophyllum（Bricl．），De Not．Ifymum chrysiceplyyllum，Brict．
Monongalia：on eid beed log．Morgantown（1405）： Merew：on ！round，Baver Spring（1．936．）

HYPNUIN，L．
H．denticulatum，I．
Honongadia：on walls of dark drippinge limestone

 Tihs: Run! 1(if.)
H. palustre, ?
 (1.581); on rocks amker a fall, ('avilh ( 1 t2!.)
H. molle, Dirks.

H proliferum, I..
II. sylenden. Hedw.

Ramdmph: in demse indue forests. Where it carpets
 mutul. When. Viarame.
H. rutabulum, I ,

H. recurvans, schwacgr.

 bole of tres. Tihbis Rum (15:97).
H. microcarpum, ('. Muell.

Nomengalia: om bark of hembock tree, Cheat Rivere (13) ©!
H. hians, Hodw.

Nere(t: (oll damp, decaled hark, Bluctield (1sto).
HE demissum. Wils. Rhmmheteyinm drmissum, Br. it sch.
Monomgatia: on stomes in rill. Tiblis Run (16t!) :and an wet rocks (15! ! ) .

## BRACHYTHECIUN, Schimp.



Faycte: near Nutallour-1. IV. N.

## STEREODONTACENE.

## THELIA, Sull,

T. hirtella lishir.), sull.

Ar.Dowedl: on hark livinghereh. Elkhom (1493.)
T. asprella(hehim.), sull.
 (15:).3.)

HYLOCOMIUM. BIr. it Sch.
II. parietinum(I), Linll.

H!!!m! s.ancluri. Wilht.
 Hill: (14it.).)
H. triquetrum(L.), Br. © Ach.
 Hill. (1649.)

## CAMPPYIUMI, MEitt.



C. chrysophyllum.

Merert: on dexayed log, damp phare, blucfied (1490). 14!91).

Tili, tenellus.
Mereer: on hole dead treer, Bhationd (1f:! ; ; on loge damp pace ( 14 cti ).

## PTILIUM, De Not.

P. crista-castrense(L.), De Nut. Hypmum rristu-crustrense, L.

Plentimal on ground, romes, loge, ete, in the denser soruce forests. Grant: near Bayarl. Randolph: near Cheat Bridge.

## STEREODON, MIitt.

S. imponens(Hechw.), Mrit.

Monongalia: on decayed log, (feorgetown (13ヶ4) : lee. cit., Tihns Run (1602). Rayette: near Nuttallour-L. IV.N.
S. cupressiforme(L.), Brid. II. ruprossiforme. L. Nered: on damp derayed log. Bluctiod (148i).
S. curvifolius(Hedir.), Bricl. II. rurfiolinm, Hedw.

 (1t20) ; on gromal, (feorgetown (13か2). MeDumell: in di(ayed log, Elkhorn (1517). Mercer: Loe. (bit., Blactich (148.5), and Beaver Abming (1491). Fayctte: near NuttallourgL. IV. N.

> PYLAISTA, Br. \& Sch.
P. velutina, Ir, \& \&

Momongalia: on hark living apple tree, Mongantown (1289.)

## PLAGIOTHECIUNI, Br. \& Sch.

P. denticulatum, Br. © sich.

Farette: noar Nuttallbur--I. W. N.
P. deticulatum. cur. densum.

Monongalia: on samdstone loukler, Tiblis Run (16t‥)

P．Sullivantiæ．．rhimp．



## CYLINDROTHECIUR，Br．\＆Sch．

C．seductrix Hulw．．．がい！．
Itomomalia：on bark livine apple tree，Morqatown
 near Nuttalllury－l．IV．N．

C．cladorhizans（INelw．），A．himp．



## ENTODON，C．Muell．


Momomgatia：on dexaral log．Tilhis Run（160：3）． Fayette：near Nuttallhur－L．IV．N．

## NECKERACE $\neq$

## NECKERA．Hedw．

N．pennata（T．），Herlw：
Theker：on tree trunks，Blackwater Falls（93．5）．

## CLIMACIUM，Web．\＆IMEohr．

C．Americanum，Bricl．


## LEUCODON，Schwaeger．

L．julaceus（Hcclw．）．Sull．
 Mclowell：on rocks in rill，Elkhorn（1：0）S）．Monongalia： （m）mak log，Tihh＇s run（15！）（0）．

I．brachypus，Briu．
Grant： 1011 wet rotten log，bilyand（937）．

## HEDWIGIA，Ehrh．

H ciliata．Ehrl．
Monomgalia：on drye expused houhders and rocke，The Flat－（1－11）$)$ ．

## HEPATIC A.

(The following - perics ane amanged in anemedane with
 Hepaticar;" Dr. Evams has kindly looked over and iflentifiod all the mombers here repertal.-('. F. Al.

## JUNGERMANNIACE $\mathrm{E}_{\mathrm{E}}$ 。 FRULIANIA, Raddi.

F. Asa-Grayana, Mont.

 (1): (2.20)

## JUBULA, Dumort.

J. Hutchinsiæ(How), Dum. rur. Sullivantii, Spmee.

Mr. 1 )owell: on rocks in stream, Elkhorn (15) (!) Monongalia: on sandstone boulder, Tibbis Rum (1(i.).).

## IEJEUNEA, Libert.

L. clypeata(schッ.), sull.


## RADULA. Nees.

R. Xalapensis, Mont.

Mercer: face of limestone cliff, Beaver spring (10.51.) Agrees with Hep. Am. 10t. Rame.
R. tenax, Lindb.

Monomgatia: on simdstome boulder in decer weots. Tihns Ran (ition.) Grant: on bark living cherry doep worme, B:ayad (2060.)

## PORELLA, Dill.

P. platyphylla(L.). Limll.

Monongalia: m bark living apple tree. Morgantown (1291, 1292): on sandetenc boulder. Tihbs Ron (16.5: ). Mercer: on mak low, Bludfied ( $1+4 \mathrm{~A}$ ): on limestome ledge. Beaver Aruing (1530).
P. pinnata, L.

Filyette: on weke in mist of falls, near (iauley Bringe (607).

## TRICHOCOLEA, Dumort.

T. tomentella(Elıh.). 1)um.

Me.Dowell: : in rill, Elkhom ( $1.5 \cdot 2=$ fot.). (irant: on wet sand in deep rat vine, Bayard (2040).

## HERBERTA. S. F. Gray.

H. adunca(bicks.) \& F. (i.

Monongalia: on sandatome bonder in deep wowds. Tibに: Run. (16.5!.)

Other U. S. stations for this soress are: Virginia, Whitr Top Mt, -Mrs. Brittom. North Carolina - Mr. Small. New York, (amakills-Anstin. New Jomsey, (iremwood Itt..-Autin.

## BAZZANIA. S. F. Gray.

B. trilobata(L.), S. F. (i. Mastigobrium trilolummin. Nees.

Momengalia: on bole of tree in decp woods, Tiblis Run (16:39. 1640) : in wot depression samdstone boulder. hoc. (it. (16i60). Fayette: in leep woods-l. IV. N. (irant: an wot Hemlock log, Bayard (2010.)
B. deflexa(Mart.), Underw.

Monońgalia: on sambstone boulder in deep woods. Tibh's run (1661.)

## CEPHALOZIA, Dum.

C. multiflora, sure.

Monongalia: on samdstone boulder amb on ground in deep woods, Tibls, run (1662). (trant: on wet Hemlock low, deep woorls, Bayard (2080).
C. curvifolia(I)icki.), Dum.

Monongalia: with the last, on sandstune boulder decp works, Tiblis run (16i(i3.) (irant: on wet dearl hark derp woots, Bayard ( 2021 ).

## ODONTOCHISMA. Dum.

O Sphagni(Dickr.), l)um.
 woods, Tibh's Run(1664).

## BLEPHAROSTOMA, Dum.

B. trichophyllum(I..), Dum.

Monongalia: on ground amb sambtome boudder, derp works. Tihlis Run (1665̃.

KANTIA, S. F. Gray.

K. Trichomanis(1.), S. F. (i.

Tucker: on wet dexayen loge, near Blakwater Falls:
(993). Monongalia: on wet ground (1.999), and ons sandstone boulder in deep woods (16i6i6), Tiblis Ran. Randohph: on (lamp sand, J'iekenis (2207).

## ANEURA, Dum.

A. multifida (L), Dun.
(irant: on wet dead hark ( 3030 ), and wet denetimat wood (2070) ; in deep wooded ravine, Payarl.

## GEOCALYX, Nees.

G. graveolens (Schuad.) Neres.

Monongalia: on ground and samditone boulders, cleer Words, Tibls run (1667.)

## SCAPANIA, Dum.

S. nemorosa(L..), 1um.

Menongalia: on damp sandstone boulder deop wooks, Tiblis run (166S). (irant: on wet Hembork log in reep) woods, Bayard (2011). Randolph: on clay near a spuling, lickens, (2212).

## DIPLOPHYLLUM, Dum.

D. taxifolium(W:ahlenh.), Dum.

Monongalia: on sametsome boulder deep woorl-, Tiblis run (16i(9).)

PLAGIOCHILA, Dumort.

P. Virginica, Evans; nov.

Growing in wide, depressed, and intricate tufts; stems ascending from a prostrate caudex, simple or paringly branched, sometimes geniculate and rooting at the joints, otherwise eradiculose ; leaves contiguous or somewhat imbrirated, widely patent, ovate or rhomboid-ovate, the dorsal margin decurrent, slightly reflexed. entire, the ventral margin plane or reffexed at base, mostly entire, the apex broad, rounded or truncate, sharply and irreqularly spinulose; amphigastria none

Stems 1 to 3 cm . 10 ng , with the leares $1 . t \mathrm{t} \stackrel{2}{2} \mathrm{~mm}$. wide; leaves 1.2 mm . long, 0.7 mm . wide; spines short, acute, separated by rounded sinuses, varying in number from 2 to 3 on each leat, nenally 4 or 5 : leat-cells a weraging 0.023 mm . in diameter in middle of leat, thin-walled and scarely thickened at the angles.

Merect: on walls of dry limmone cave, Bearer Aning (1.5.) (0).

## Description of Figures.

Fiy. 1. Plants. natural wize.
-. 2. -

-. 4. .pialal teeth of laffa 115

P. porelloides ('TMr'). Limll).

Momongalial: on samelstome houlders is mos. Tiblis
 sand (2041), in herp ravine. Bayarl.

## JUNGERMANNIA. Michx.

J. exsecta, thelmid.
frant: wh wet hemberk low in dep wooded maine lanam (201: )

## PELLIA, Raddi.

P. epiphylla(L). (omla.


## HARPANTHUS, Nees.

H. scutatus Web. © Mohr.), Aかuce.

Momongalia: on ground and samdstome bouldor, feep Womls. Tiblis lan (16i-0). (iant: on danap dear bark. B:arard (2(0)20. 2(0:31).

## IMEIZGERIA, Raddi.

M. conjugata, Lindh. 17. fintrutu. Dum. in. pt.

MeDowell: on lark of bech, Elkhom (1.51:3). Monangelia: on bark of twig (lioil).

## MARCHANTIACE $\mathbb{M}$.

## MARCHANTIA. L.

M polymorpha, 1.
Ramdoph: on wround in burnt plate. summit of

 (flenville-V. M. Mhnongalia: among damp moses base of salmbetome loulder, Tiblis rum; between bricke of sidewalk with bryum arenteum, Momantown.

CONOCEPHALUS, Necker.
C. conicus(L.). Dun.

Momombalia: on gromel and vamdstome boulders deep Womls. Tiblis run (16Tこ.)


Plagiochila Virginica, n. sp.

## THALLOPHYTA.

## LICHENES.

(The fen wecemens that I hate gathemed in this dats. incidental to the collection of the higher orders. hame been kindly «xamined ly Dr. J. W. Eekfeldt.)

## USNEA.

USNEA, Ach.
U barbata(L.), Fi.
Wirt: on old trees, common, Buming Springs. Randolph: on Rhododentron max. common, Cheat Bridge. Mercer: on oak twigs, Blnefied. ; and elsewhere alout state eommon on trees, rocks, and ohd fence rails.
liti. florida, Nr.
Mercer: on oak twiys and rhips among dearl leaves, mheficht.

## PARMELIE E

## PARIMELIA, Ach.

P. Borreri, ror. rudecta, Tuck.

Momongalia: On hark living lorust tree, Falling Rum (15:1).
P. caperata(L.), 小h.

Monongalia: on sandstone rock- and lase of lereech. Falling Run (128: ) .
P. olivacea (L.), Arh.

On Liriodendron log newly fellerl. Momongalia: Falling Run (134:3).

PHYSCIA, DC.
P. lucomela(L.), Michn.

Mereer: with mose on wet limestone ledge, Beaver Apring (1539).

## PELTIGERIE无． <br> STICTA．Schreb．

S．pulmonaria（L．），Ach．

S．herbacea（Hurls．），Arh．


## PELTIGERA，Willd．

P．aphthosa（K．），Itotlm．
Monongalia：on rock lentace，ham（＇asiville．
LECANORER 压
PLACODIUM，DC．
P．cerinum（ILerlw．），N゙ing．© Hepl．
Momongalia：on hark of beech．Falling Run（1895）．

## LECANORA，Ach．

L．astra（Hucls．），Ach．
Monongalial：wh hark Liriodendron low，newly felled． Falling Run（13fo）；on Hat（xposed surface sandstone rock， amo locality（1259）．

## CLADONIE $A$ ：

CLADONIA，Hoffm．
C．Mitrula，Tuck．
Monongalia：old becell log，Falling Run（1：346）．
C．pyxidata（L．）．Fr．
Monongalia：along Falling Run，in lare sambstone
 （13：3x）：hase of heed in soil（1282）．

C．gracilis（ 1.$)_{\text {）}}$ ，My．
Monomgalia：along Falling Run，on derayed loge（1：337）；


C．rangiferina（L．）．Inflin．


C furcata, fur. racemosa, Flowk.

 spring.
C. cristatella, Tuck.

Monongalia: $\quad 1$ an oll decayed loge Falling Rim (1:366).

## DIATOMACEAE

(Only one attempt has been made so far to collect sjecdies in this sub-class; this was a dredging in a small pasture pood near Morgantown. The result was kinchly examined, and the speces identified. hy the Row. Albert Monn, Jr.)

Cymbella gastroides, Kuct\%. turgida(Girun.), Greg.

Stauroneis Phcenicentron, Ehrh.
Navicula viridis, Kuct\%.
major. Kuetz.
nobilis(Ehrt.), Kuetz.
rhomboides, Ehrt.
borealis Ehrl.), Kuct\%.
trinodis, Lewis.
rar.
Achnanthes lanceolata, Breh.
Synedra Ulna(Nitzsch.), Ehrh.


## FUNGACEA.

## AGARICACE A. $^{\text {A }}$



## AMMANITA. L.

A muscaria, 1.
Rowied on huriod birch limh. Grant: near Bayand.
Forime,
I wartless form, apmantly of this seecies, oceurs on leaf mold in deep woods. (imant: near Bayard.

## COLLYBIA, Fr.

C. dryophila, Bull.

In mose on log, in deep wools. Cirant: near layard.
C. radicata, Rehl.

On leaf mold. Monongalia: Rich woods near Morgantown.

MYCENA. Fr.
M. galericulata, scop).

Comler dead oak twig. Cnder hark oak log. Monongalial fich woots near Morgantown.

## OMPHALLA, Fr.

O. campanella, Batsch. (in part).

On leaf mohl, hase of chestulat. Preston: near Tema Alta.

MARASMIUS, Fr.
M. opacus, B. if ('.

On dead hranch Rhododendron maximem, common. Grant: near Bayarl.
M. rotula(Scoџ.). Fr.

On deal hireh limb. (irant: mear liayarl.

## LENTINUS. Fr.

L. strigosus, schw.

On lead Birch log. (irant: hear Bayard.

## PANUS, Fr.

P. stipticus (Bull.), Fr.

Under dead hanch Oak. Monongalia: man Monqumtown.

## LENZITES, Fr.

L. sepiaria( Wulf.), Fir.
 Falls of Blackwater.

Forime
A rexpmate form. On dead hembock logs Grant: near Bayarol.

## SCHIZOPHYLLUM, Fr.

S. commune, Fr.

On hark dead mak. (irant: mear Bayard. ()n dead apple twig. Nonongalia: near Morgantown.

voLvaria. Fr.
V. bombycina(Per.), Fr.

Monomgalia: on insert (?), Morgantomil.
Melemosporiar.
STROPHARIA, Fr.
S. stercoraria, Fr.

On decaying regetahle matter. Proston: near Terra Mita.

HYPHOLOMA, Fr.
H. sublateritium, schaeff.

Tnder hark ash hog. Monongalia: near Morgantown.
PAN $A O L U S, F r$.
$P$ campanulatus, 1.
On cow droppings, in deep coniferons woods. Grant: near Bayard.

## POLYPORACE .

## POLYPORUS, Fr.

P. abietinus(1)icki.). Fr.

P. adusts(IVilll.). Frr.

On hath Sumath brameh. Wh dexaly hickory stumb.

P. applanatus (lers). Fr.
(Wh Lead shemr Maple and Gaks. Woond: mar Kamawhatation. AL-Dowell: war Elkhorn. On dead ash loge (imat: near Bayat. Monongalia: mear Morqantown. Fre'fumt thonghont thestate.
P. Berkeleyi. Fr.

In dry expmed hollow in Gak stmmp. Monongalia: nealr Morgantown.
P. carneus, Nece.

On dead and decorticated sipuce stumps. Tucker: near the Falls of Blarkwater.
P. fomentarius L.) Fi:

On dead Birch. (irant: near Bayard.
P. hirsutus(IV ulf.), Fr.

On deal hireh and aplle twigs. On bank liriodendron log. Monongatia: near Morgantown.
former
A small form, with white spores. On roots of lallen hirch. (irant: near Bayard.
P. Iucidus(Lers.), Fr.

Oin dead hemlock lows. Prestom: near Terra Alta.
P. sulphureus, Fr.

On decalying mak stump. Monongalia: nean Morgantuwn.
P. umbellatus, Fr.

In dry expmed hollow of an oak stump. Monongalia: ncar Minquntown.
P. versicolor(L.), Fr.

On mecortiated former stumps. Tucker: mar the Falle of Blackwater.

## FOMES Fr.

F. rimosus, Berk.

Exponed on deal YChow Lorenst hir. Momongalia: hoar Morgantown.

POLYSTICTUS, Fr.
P. hirsutus, Fir

On dead Ajphletwig. Monomgalia: near Morgantown.
P. pergamenus, fir.

On dry expmeed Oak railroad tic. Monongalia: near Morgantown.
P. cinnabarinus(Jacq.), Fr.

Monomgalia: on dead limbe of cherry, Morgantown.
P. versicolor, Fr.

Tinder bark oak log. Monongalia: near Morgantown.

## TRAMETES, Fr.

T. sepium, Bork.

On dry exposed oak railroad tice. Nonongalia: near Morgantown.

## MYRIADOPORUS, Pk.

M. induratus, Pk .

Probably only an imprefect condition of Poria abdurens, Pers fide $\dot{\text { l'k. }}$. Top of decayed oak stump. Monongalia: near Morgantown.

GLOEOPORUS, Mont.
G. conchoides, Mont.

On oak chips. Monongalia: near Morgantown. MERULIUS, Hall.
M. tremellosus, Schrad.

Tnder bark oak log. Monongalia: near Morgantown.
HYDNACE 无.
IRPEX, Fr.
I. lacteus, Fr.

On icad sumach. Monongalia: near Morgantown.

## THELEPHORACE ． <br> STEREUM，Fr．

S．complicatum，ドに．
（）n roots of fallen hireh．（irant：neal bavam．（）n dry mak ratroad ties．Homongalia：near Morqantown．

S．frustulosum（lers．），Fr．
On oak log．Monongalia：near Morgantown．
S．sericeum，shw．
On dead himehtwig．（irant：near Bayard．
S．sulphuratum．R．© Rav．
（m）White Oak log．Monongatiat：near Morgantown．
S．versicolor，Fr．，＇rlr．
On dry Gak milroad tics．Momongalia：near Morgan－ （1）wn．

## HYMENOCH ETE，Lev．

H．corrugata（Fr．），Ler．
On decorticated hired limh．Grant：near Bayarel．

## EXOBASIDIUM，Weron．

E．Rhododendri，Cram．
Forming＂empe＂near the tipsormang of livingleares of Rhododentron maximum．Common in Crant and Tucker comaties．I understand from Prof．Peeck，that this is his first knowledge of the oremring of this species in North Americal．

## CLAVARIACEAs． <br> CLAVARIA，Vaill．

C．flaccida，Fr．
On teaf mold，in deep wools．Cimant：near Bayard．
TREMEL工ACE 无．
HYPSILOPHORA，Cke．
H fragiformis（Nees），（＇kr＇
（on lark deal Berch．firant：near Bayarl．

## LYCOPERDACE 鹿.

## BOVISTA, Pers.

B. pila, 1). \& (:

Momongalia: free on open grouml, Morgantown.

## LYCOPERDON, Tourn.

L. pyriforme, schaefi.

Thmer hark oak log. Momongalia: mear Mongantown, ne:n Litile Falls.

## SCLERODERIMA. Pers.

S. vulgare, Fr.

On spuce chips. Tucker: near Falls of Blackwater. Monongalia: phentifnl on elay of woodland path; Tiblis Run. (irant: on dead loges, ()tter Fork of Cheat.

## UREDINACE A.

## 1 merosporar.

## UROIVYCES. Lev.

U . appendiculata(Pers.), Ler.
On living leaves of Pole Bean. Monongalia: near Morgantown.
U. Hedysari-paniculati(Schw.), Farl.

On living leaves Desmodium roturerne. Mason: near Point Pleasant.
U. Lespedezæ(Sch.), Pk.

On living leares Lexpertean ciolared. Monongalia: near Morgantown.
U. Trifolii(A. \& S.), Winter.

On living leaves Trijolim pratensic. Mason: near Point Pleasant.

> Dirlymosporiz.

## PUCCINIA, Pers

P. flosculosorum(A. \& S.), Ruhl.

On living leares C'nirns latreotutus, Mason: near Point Pleasant.
P. Pimpinellæ st.), Link.
(hn living leare (Ammerthisa Chytmi. Aomongalia:

P. Rubigo-vera
 Hallhal station.
P. sauveolens(I'rs.), Pk.
 nawhal station.

## GYMNOSPORANGIUM, DC.

G. macropus, link.

Merer: plentiful on living Junipers, near Prinecton.


## PHRAGMIDIUM, Lk.

P. Potentillae( L'ers.), Karst.

Momongalia: urvonom living leavos Pomentlen Commdenvis, near Mmyantown.

## COLEOSPORIUM, Lev.

C. Sonchi-arvensis(Pers.) Lev.

On living leaves of Vermmin Vorflormernas. common. Mason: near Paint Marant.
C. Senecionis(Pers.), Prevermim, Pini, Auth., P. ariorolu, Rabh. Aecidiam I'ini, Pers.
$W^{\prime}$ oorl: areidiun on living leaver Pines mitis, nem Lockhart's Run.

## I'mentinar Inferimeres.

## ※CIDIUM. Pers.

A. Houstonianum, richw.

Monomgalia: sermagonia on living leate Homatomine arrulth. near Morgantown.

## ROESTELIA, Rebent.

R. Pyratum, sihw.

On living lates rom-healuty apple. Howerl near Lockhatis Ran. ('atmell: neal Huntington.

## PERIDERMIUM. Chev.

P. Peckii
 Traventrs Repore.
P. balsameum, l'k.
 at 心hateronf- Death.

## C ÆOMMA, Link.

C. nitens, hichw:

On living leaves Ramben hixpithes. Monomgalia: near Morgantown.

## USTILAGINACE $\nrightarrow$.

Imerospmis.

## USTILAGO, Pers.

U. Maydis( D('.), ('rla.

On living ears and tassels of *Went com. Momongalia: near Morgantown, prevalent (1891).
U. segetum(Bull.), J)itm.

On living heads of wheat abrl wats. Monomgalia: n"ar Morgantomo. Lewis: near Alun Bridge. Taylor: near Thornton.
U. Tritici(Pers.), Jensen.

On living leaves of wheat. Monongalia: near Mongantow!

Mintyospurerer.

## UROCYSTIS, Rabenh.

U. Anemones, Schloh).

Monongalia: on living leares and under hark of Amen. Morgantown.

## PERONOSPORACEA PHYTOPHTHORA, D. By.

P. infestans(Mont.), D. lis.
(On living potato leares and tubers. Monongalia:
near Morgantown. near Morgantown.
P. obovata. Bonm.
() n $^{\text {? }}$ Turker: near Datir.

## CYSTOPUS, DeBy.

C. candidus(Pers.), Ler.

Monongalia: on living leaves Dentuin di,hylla, Litule - Follls.

## PERONOSPORA, Cda.

P. obovata. lion.

Preston: on living leaves Symentu arr., Terra Ala.
P. viticola.

On Cirapes. Monongalia: near Morgantown.

## ENTONOPHTHORACEÆ.

## EIMPUSA, Cohn

E. Grylli(Fr.) Nowakur.

On tufted catapilar, on lowesto, and on Mrasa. Monongalia: near Morgantown. plentiful (1891).
E. Muscæ(Fr.), Cohn.

On common house-fly ; prevalent on a Tachina ep. on maples in 1892; Monongalia: Morgantown.

## PERISPORIACEæ.

(Er!liquscar.)

- Amerospmer.


## PODOSPH 2 RA, Kunze.

P. oxycantha(D(.), D. By.

On living ('herry, Thom, and P'ersimmon. Donongalia: near Morgantown.
P. triadactyla(Wialler:), I). By.

On living leares cultivated Cherry. Cabell: near Huntingtom.

## SPH ※ROTHECA, Lev.

S. Humuli(D('), Burill.
(1) living leaves . Igrimmen binguteriu. Preston: near Terra Alta.

## UNCINULA，Lev．

U．Ampelopsidis，I＇k．
（＇ル！
ERYSIPHE（Hedw．），DC．
E．graminis，$)^{\circ}$ ．
 Alta．

## S PH ※RIACE ※．

I＇harosipurtue．
HYPOXYLON，Bull．
H．fuscum（Prw．），Fr．
On dead amd decortieated maple．（irant：mair Bay－ ard．

$$
\text { DOTHIDEACE } \mathbb{E} \text {. }
$$


PHYLLACHORA，Fekl．
P．graminis（lers．），Fekl．
On living leaves of Asporla Hystrit．Fayette：near Nuttallburg．

## PLOWRIGHTIA，Sacc．

P．morbosa（schw．），sure．
Monomgalia：on limbe of plum and cherre Morgan－ ナいいに．

## HYSTERIACE <br> LOPHIODERIMIUM，Chev．

L．Pinastri（Schrald．），Cher．
Hampshire：on living leaves l＇inns imp，Romme？．

## PEZIZACE $\oiint$

I！yetraspervar．
（1／olisinh hinsw．）
P．cinerea，Batsch．
Alomongalia：on decayed log，Morgantown．
P. aurelia, Pre

Nomongalia: on dead leaf in moten log, Little Falls.
P. scutellata, L.

Gn dead hark in water. diant: near bayard.

## LACHNEA. Fr.

L. erinaceus(Hcho.)

Inder side Oak log. Monongatia: inear Morgantown.
L. scutellata(1..)

On rotting Beech log, and under bark wet (oak log. Monongalia: near Morgantown.

## BULGARIACEA.

## Pıro!

CORYNE, Tul.
C. urnalis (Ny.), Nate.
(: pmomira, Fekl.
liotting beech log, and under bark oak log. Momomgalia: mear Morgantown.

GYMNOASCACEX.
(Eromiverar.)

## TAPHRINA, Tul.

T. Pruni, Frk'.

On phums. Monongalia: near Morgantown.
T. deformans(Brrk.), Tul.

On peach leaves. deffersm: near Charletown.

SACCHAROMYCETACEX.
SACCHAROMYCES, Myen.
S. cerevisiæ, Mcyon.

S. Mycoderma, Rows.
()n same liguid as aborr.

## SCHIZOMYCETACE I.

## Brarilosforiar.

## BACILLUS, C̣ohn.

B. acidi lactici.

In sour milk.
B. subtilis, Cohn.

In infusion of hay. On beiled petato.
B. tuberculosss, Koch.
la sputa of comsumptiver.
B. ulna, ('olin.
()n boiled whiternfegy.
B.
lsolated from blow of self when suffering from "La (iripme." SPIRILLUM, Ehrb.
S. undula Mucll.), Eht).

In infusion of hay.

## BACTERIUIM, Ehr. et. Trev.

B. lineola, C'ohn.

In infusion of radish.
B. termo, Dujard.

In various decomposing organic substance.
B. - 1 , nov. Mis.

Isolated from dead loe ustr.

## MICROCOCCUS (Hall.), Cohn.

M. amylovorus. Burrill.

In "fire-blight" of Pears.
M aurantiacus Cohn.
Caught on sterilized potato. In laboratory.
M. crepusculum, Cohn.

Found associated with Burterium termo in decomposing infusions.
M. Iuteus, C'ohn.

Canght on sterilized potato. In labomatory.

M septicus. ('ullı.
Fonmal in hlowd uf deal calf.
M. ureæ. ('ぃlı.
ln leromposing winc.

## MYXOMYCETACE $\nrightarrow$

Triraythora.

## TRICHIA. Hall.

T. chrysosperma(liuli.). I)('.


## HEMIIARCYRIA, Rostf.

H. clavata, linstf.

Enoler hark of wot mak tog. Inomomgaliat mear Morgantown.
H. rubiformis, lostf.
 qalia: Hear Morquntown.

## SPH ÆRIOIDACE $\nrightarrow$.



## PHYLLOSTICTA, Pers.

P. acericola, ('. de.

On living leaves Ater sermhtumm, L. Putnam: near Buthalo.
P. Asiminæ, E. $\mathbb{\text { d }}$ Kll.

On living leaver of Astminu trifolur. Monongalia: near ('amp) Eilen.
P. Labruscæ. Thun.

On living leaves ('oncord dimpe. Wrond: near Lorkhart's Run.

> sealerosporiar.

## SEPTORIA. Fr.

S. Rubi, Wist, ef B. © ("

Whod: on living latres Pubus ('anmerneis, Lockharts: Rim.
S. Verbenæ, (i,
 Shenametoah Je.

S．Kalmiæcola（Sch．）B．it 1 ．
Monongalia：on living lates of horlmin lurifuliu，（＇amp Edell．

## LEPTOSTROMACE $\nrightarrow$ ．


DISCOSIA，Fr．
D．maculæcola，（icl．
 Bayarl．

## ENTOMOSPORIUM，Lev．

E．maculatum．Leッ．
On living leaves and firnit of the pear．Momomgalial： neay Morgantown．

## MELANCONIACE ．

H！нeltosporicte．

## COLLETOTRICHUM，Cda．

C．Lindemuthianum．S（ril）．
Pools of wax hutter－heam．Monongaliat：ne：a Morgan－ tいwッ．

LIBERTELLA，Desm，
 On lark of dead beech．Griant：near Bayard．

MUCEDINACE
Imeronymiar．

## MONILIA，Pers．

M．fructigena，Pers．
On cherries．Monomgalia：near Morgantuma．

## OIDIUM，Link．

O．monilioides，lk．
Cominlia of Er！ysipher graminix．DC．
Preston：on living leares Pou furtensis，near Tora Alta．

（abell：on living leavio of lowe cult，near Hunting－ ton．


## DEIMATIACE®.



## FUSICLADIUIM, Bon.

F. dendriticum, (Wrallr.), Fekl.

On living leares and fruit of the Apple. Tonongalia: near Morgantown.


## CERCOSPORA. Fr.

C. caulophylli, I'k.
 near Bayard.
C. smilacis. Thun.

On living leaves smilax. Monongalia: near ('amp) Eilen.

$$
I_{r+1}
$$

## MACROSPORIUM, Fr.

IM. Tomato, C'onk.
On cultivated ip. (omato. Monongaliat: man Morgangantown, hot prevalent (1891).

## SEPTOSPORIUM, Cda.

S. Equiseti, Pk. S' now. (MSS.).

Tipe of living leaves of Equisetum 1 mornse. Dededridere: near Center Point. Monongalial: on campus.

TUBERCULARIACE $\not \subset$.
(Toulreronlariver Ituredinser.)
Imeros.jumer.

## TUBERCULARIA. Tode.

T. vulgaris.
()n dead Smmar limbs. Monongalia: near Morgantown.

## CYLINDROCOLA. Bon.

C. dendroctoni. Pk. N. P.
sumpodochia minute, forming irrequar masses. soft.
stomewhat waxy, white or whitish: porophomes stemere. abmodantly branched above, often comparded lefow into :

 broad.
 bark of piom. Hampshis: near Rommey, W. Va.

The insects are porably killed loy this fungus an they lie dead in their homews in the immer bark of the tres (Pimus impls.)

On some of the inserte there is a cottony or flacerulent mass of white mycelium interworm in a somewhat retioulate
 but is pobalaly a luxurient growth of the myealimm of this fungus.

Ocasionally the fungis seems to efread from the insect to bark immerliately adjacent to it.

## 

## B.ACTRIDIUIM, Kunze.

## B. flavum, K. \&心. <br> Inder hark wet bak log. Monongalia: near Morgantown.

## FUSARIUM, Desm.

F. Solani, Mart.

Foumd asoce iated witn the black rot on tomatoes that have fallen batly affected with the disemse.
F. culmorum. smith.

Donongalia: on heads living ripe wheat, Later Point.
"This specimen combines the charasters of a mumber of so-called specter, making it difficult to say which it really is. Probably they are all forms of one perabs." Prof. Peck (in letter).

> Tuberemlurivea Demutiori.
> Amerviospmiser.

## EPICOCCUM, Lk.

E. neglectum, Dem.
 oriles. Momongalia: near Morgantown.

## CONCLUSION．

Ithough I hate worked only twoscasons allong the plants
 tion．I ean not leal－notwithotanding the assistance of those who


 a
 motrd hy an examination of the following table：

| W | Va． | （＇nl． | Mass． | （）hio． | Trk． | N（b）． | N．Y． | 111s． | I．．J． |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Genera | 514 | 430 | ＋4：3 | 45： | ． 6.9 | 5（i） | －i，${ }^{\text {a }}$ | －）．）1 |  |
| Species＊ | 1365 | 114．） | 1162 | 123： | 12：3 | 1ご心 | 1：3：30 | $14: 31$ | 1！9！．） |

[^1]
## Summary of the Flora．

| Inthonherta， |  | $\begin{aligned} & \text { spor. ies. } \\ & 11 s!1 \end{aligned}$ | $\begin{gathered} \text { Varictiex } \\ 109 \end{gathered}$ | $\begin{gathered} \text { Furns: } \\ \stackrel{2}{2}: \text { : } \end{gathered}$ | Tu＇al |
| :---: | :---: | :---: | :---: | :---: | :---: |
| P＇teridoplivita． | 15 | $3!1$ | 4 | 1 | 4 |
| Bryophyta， | 131 | 107 | 1 |  | 11： |
| Thallophyta． | 94 | 164 |  | ； | 167 |
| Total， | 679 | $149!$ | 119 | $\because 7$ | 1 （it．） |
| （）f thes thereare natire of the state． Forrigu． |  |  |  |  | $\begin{array}{r} 145 \% \\ 19: ? \end{array}$ |
| Total species．raniutios，and forms， |  |  |  |  | 1645 |

## SUPPLEMENT.

## FOSSILFLORA.

In this prelminary list of the rieh fossil that of the Nate, I give

 designation of the emongion and gergraphical distribution than a simple mention of the localities, om areotant of the whderelopeal condition of the work in this hamoh.

The major pat of this list is kimbly embtributed to this publication hy Mr. R. 1). Lato fom has axtonse lihary and conlections, the latter eontaining a large anomat of material as pet unworkent.

The study of the palacolotany of this State has been abrealy ably begun he Profs. [. (: White, ame IV. M. Fontaine, (F. \& W.), who have publiwhed a work antitled "The Pemmian Floma," issued ak Vol. P' of the Pemntrania, serond (xeological Surbey.

## ALETHOPTERL心.

A. aquiliur( Schl.), Sichı.
J. gigus, Gein.

1. gramlifoliu, Newby.
A. Melener, Lx
-1. I'mechitime Br.), Schp.
A. Viaginitum, F. if W.

INNUTARLA.
A. curimatu, Cintb
A. Immifuliu, Br.
A. mimutu, Br.
A. rudiulu(Br.), St.

1. sphenophylhoidrs, Kenk. liar. intermediu, Lx.

Lower barrens. Ohio: Wheeling. Upper Barrens. Marshall: Bellton.
Conglomerate. Fayette: Quinnimont
Conglomerate. Fayette: Quimimont.
C'onglomerate. l'ayette: (Quimimont.
Waynesburg ('. Monongalia : Cassville.

W’aynesburg ('. Monongalia: C'assville. Doldridge: W. Union.
Upper Barrens. Marshall: Bellton.
Wraynesburg ('. Monongalia: Cassville.
Warnesburg C. Doddrialge: W. Vnion.
Epper Barrens. Monongalia: Blacksville.

Waynesburg C. Monongalia: ('assville.
Lower Barrens. Ohio: Wheeling.
l'pper Barens. Monongalia: south of $^{\top}$ Jollytown. Pa.
Upper Barrens. Monongalia: Brown's Mills.






. I. "rionlaris, Daws. C'onglomerate. P'ayette: Qumbinont,
Sewell.
.1. rigid/ns, Br.

1. sullu 1is. Lx.
L. Prohnctive (. M.
L. Prodnctive (: II. Kanawha:

BALERA.
R. Virginimm, F . \& ll . Ypuer Barrens.
( $A . A$ MITES.
f' romuréormis, schloth.

1\% risti, Br.

1. S゙uriorii, Br.
( $\quad$ ILLIPTERIDIUM.
(Dansomi"mum. F. \& W.
C. gromlifolium, F. \& W.

('. Massiliomenm, Lx.
' 'ohlom!!ifolimm, F.\& IV.

(:mıitmm, F \& W
(', MLIPTERL心.
${ }^{\prime}$. conferta, Br.

l'Inggroullis. Lax.
 mune.
（＇froudosw，schimp．


（i．marginatns，F．\＆W．

Comipticar，F．\＆W．
C＇gigunter，F＇d II．
 （＇romsimmors，F．\＆IV．

CIMOGLOANA．
（r．mbtusigolier．F．\＆W．
（！brecilobecio，F．\＆W
Gormosm，F．\＆W．
C．lobutu，F．\＆W．
HQULSTTVTH゙，
E．elongutus． $\mathrm{K} . \mathrm{d}$ TV．
$\therefore$ E．mugosas，schisul．
E．striatms，F．\＆W．

Fespertine（ireenbrier：I dewis Thanel．

Waymeshorg（＇．Monongatiat（＇assville．
Waynesburg（＇．Monongolia：（＇assville．

IV：ynesburg（＇．Ilonomgatiat（＇assville．
Waynesburg（＇．IIonongalia：（＇assville．

Lower Barrens．Ohio：Wheoling．
W：anesburg（＇．Monongalia：（＇assville．

Wraynosburg（．Monongalia：（＇assville． Waynesburg（＇．Monongalia：（＇assville． Waynesburg（＇．Monongalia：（＇asssville． Waynesburg（＇．Monongalia：（＇assville．

KREMOPIMRTS．
E．urtemisionfolia（Br．），Achp．
E．（ Yerrtionmi，Lx．
G（）N1OPTERLS．
G．clliptica，F．\＆W．
G．Nerlomianer，F．d W．
（í．ob7ongu，F．\＆W．
GUTLIELMITGN．
G．orlicularis，F．\＆W．
LEPIDODENDRON．
L．clyperetirm，Lx．
L．srlagimoirles，Stermb．
1．Stermbergi，Br．
1．I＇flheimi＂umm，Sternh．

L．Prodnctive（＇．M．Kanawha：Coalmont． I．Productive C．M．Kanawha：B1＇ksburg．

Wraynesburg（＇．Monongalia：Casssille． Waynesburg（．Doddridge：W＇．Tnion． Waynesburg C．Doddridge：IV．T＇nion．

Wraynesburg C．Monongalia：Cassville．

1．Productive C．M．
Conglomerate．Fayette：Quinnimont， Sewell．
L．Productive（：M．
Vespertine．Creenbrier：Lewis Truncl．
Vespertine．Greenbrier：Lewis Tunnel．

LEEPDOSTROBUS．
S．万rиetик，L．\＆H．
L．Productive（… K．Kittamning Coal．
L．S゙ッlish！！！！i，Lx．




if. Ilritlii, Amdr.
1V. Nomillonvis, Fiont.



こKはROPTERAS.
I., urnifichiu, Br.


N: hifimis, $1 \times$.
N. C'latismi. Lx Irombutu, Br.
N.rlirtyopperointes, F. \& W.
I. fimblriatle, Lax.
N. Mr.cmesm, Br.
 ligithose, lax.
N. Comengri, Br.
N.hictraphiyllo. Br.
N. hirsuln, lax.
I. Inschii, Br.

W'aynesburg ('. Monongalia: /ieorgetown. lawer Barrens. Ohio: Wheeling.

Conglomerate. Fayette: Quimimont. Sowell.
('molnmerate. Fayelte: sawell.

W:yneshurg ('. Monongalia: ('assville.
IV:yneshurg ('. Doddridge: W'. Vion.

Lower Bamens. Ohio: Wherling.

1. Prodnctive \{ . II. Ipper iveeport C.

II: ynesthrg ('. Jomongalia: Cassville. irnettsville.
Wraynesburg (… Doxddridge: W. I'nion.
lipper Barrens. Yarshall: Beltom.
Kittaming (C. Kanawha: Blackshurg. Kittaming C'oal.
Waynesburg (!. Monongalia: ('assville.
Waymesturg (C. fohdridge: W. I'nion.
Ppper Barrens. Monongalia: Browns llills.
Waynesharg (': Woldrilge: IV I'nion Tpper barrens. Harshall: Bellton.
W:ymeshrge (', Monongalia: A mettsville.
L. Prorluctive (1. M. Kamanha liver.

Waynestmger Codridue: IV. V'nion.
Pper Barrens. Monongalia: Brown's Mills.
Lower Bamens. Ohio: Whe eling.
D. Productive (. M. I'pper Freeport ('.
L. Mrodnctre ( $:$. If. Kittaming ( $!$.

Waynesburg (C. Dotdridge: IV I'nion.
[pper Barrens. Monongatia: Browns
lills.
Lower Barrens. Ohio: Wheeling.
'pper Barrens. Monongalia: Brown's
Dill.s

1. Pronductive ('. . 11. Kittaming Coal.

Tpper Barrens, (thronghont.
Lower liarens. Ohio: Wherling.

1. Probnctive ('. M. Kittaming (obal.


There Batrens. Monomgatia: Browns:
Mlills.
Lower Barrens. Oho: Wheling.
N. olsermer, Lx

I.pliculn, iternh.N. ratrimeris. Bumbs.
2. Š: henchamii. Br.
3. Smithii, lx.
N. tenuifolie, lis.
OJONTOITERK
O. densifolict, F . d゙ W . (). yrucillimer, Newhy.
O. питоми, F. \& $\mathbb{I}$.
O. neuropurnidrs. Newhy.
O. Noentereryi, Lx.
(1.ontrusiluhio.
var. ravineris. F. \& W.
O. puchiydermu, F \& $\mathbb{W}^{7}$.
O. Reirhinue, F. \& $\mathbb{H}$.
(1. spluenniteroides, $\mathrm{l} \mathbf{x}$.
1). sulicunecatu, Bunby
1). trmuintris, 1Ax.
[^2]Pमper Barrens. Monomgaliat: Brownis
*Wayneshurg ('. Monomgaliat: Cussville,
Went's Rinn.
IV:ayesharg (1. Doddridge: 11 . I'nion.
Tpper Barrens. Jomongaliat: Brownis Nills.
Tpper Batrens. Homongalia: Brown's Mills.
Lower hamens. onto: Wherting.


1. Prouluctive C. .). Kittaming foral.

W'aymeshurg ('. Monongaliat: C'assville.
Tpper harrens. Monongalia: hrown's Yills.
Conglomerate. Faratte: (Qmmimont, Fowell.
Waynesturg ('. Monongalia: Arnettaville.

1. Productive ('. II. Ǩanama: Blackshurg, (coalburg.
('onglomerate, Fayctte: Quinnimont, rewell.

Waynesburg ('. Monongalia: ('assville. Conglomeratr, Fayette: Quimimont, Sewell.
Waynesburg ( $\quad$ Monongalia: Cassville. Waynesburg (C. Dothridge: IV. Vnion. Conglomerate. Fayette: (kuinnimont, Sewell.
Conglomerate. Fayette: Quimimont. Sewoll.
Conglomerate Faretic: (Quinnimont. Sंewell.
Upper Barrens. Marshall: near Bellton. Waynesburg ('. Monongalia:- Cassville. Waynesburg C. Monongalia: Jent's Run. Waynesburg ( $\because$ : Monongalia: ('assville. Cpper Barrens. Monongalia: Brown's Mills.

1. Productive ('. M. Kanawha: Blackslorra.
L. Productive (C. M. Boone: Short ereek.

Wayneshurg (C. Honongalia: Arnettesiville.
L. Prodnctive ( ${ }^{\prime}$. M. Eipper Fireeport (') Trper liarens. Monongalia: Browns Mils.
Wayneshurg (: Monongalia: ('assitle.

PECOPTERIS．
 Wilyneshurg（＇．Monongalia：Tentis Run． W：arnesburg（＇．Dordridge：Wrest Union．

 Wisineshmrg（＇．Doddridge：Wr．Cnion． Tpper liamens．Marshall．Bellton． 1．Productiva（＇．M．Lpper l＇reeport（＇．
 Wrayneshurg（＇．Monongalia：sta．？ Tpper Barrens，in coal．Marshall：Tyler． Tl：yneshurg $C$ ．Monongalia：（＇assville． Waynesburg（＇．Dorldrage：W．Tnion．

I＇．Buclilnurlii，Br．
l＇．＇＇emulullintur，Br．
1）．（isti．13r．
I＇．deutulu．Br．

Wrayneshmry（＇．Monongalia：（＇assville．
Lower Bamens．（ hio：Whoeling．
Lower liarrens．Ohio：Wheeling．
W＇aynesburg（＇．Doddridge：W＇．Inion． L．Jroductire（＇．M．sta．？
W：aymbisurg（＂．Nunongalia：（＂assville．
Lower Barrens．Onio：Wheeling．
Wraynesharg（＇．Monongaliat（＇assville．
Itayneshurg（＇Monongalia：（＇assville．
W゙aynesburg（＇．Monongalia：（＇assville．
Wrayneshurg（．．Monongalia：C＇assille．
Wayneshmog（＇．Monongalia：（＇assville．
1 pper Barrens．Marshall：Bellton．
Wayneshurg（＇．Monongalia：Cassrille．
Waynesburg C ．Doddridge：Wr．Vnion．


I＇gmuiopternides，F．d W．
I＇．Ilmerimm．F．d W．
I．imbicientr，F．\＆WF
l＇．imlimmlu，F．\＆W．
P．lanconlutu．F．\＆II．

1）．lutifulin．F．\＆IV．
1＇．Ineryifinlier．Br．

I＇mirropllyllı．Br．
I＇．Miltomii，．Br．

 I＇monides，F＇，\＆IV．


Var：luliglin．F．心．


Wayneshurg（＇．Doddridge：WV．Tnion．
Wrayneshme（＇．Momongalia ：Cassville．
Wraynesburg（．Monongalia：Cassville．
Waynesbmro（＇．Monongalia ：C＇assville．
Wayneshnrg（．．．Monongelia ：Cassville．
Waynesburg（＇．Monongalia：（＇assville．
Warneshorg（：Onio：Moundsrille．
Tpper Barrens．Marshall：Relton．
Wraynesbrte（ （．Monongalia：（＇assville．
Tpper Barrens．Marshall：Bellon．
Wiynesburg（＇．Monongalia：Cassville．
Wayneshmer（C．Monongalia：（＇assville．
Wraynealurg（ Monongalia：（＇issville．
Mayneshmog（＇．Monongalia：Cassville．
Waymesbume Marshall：W．Vnion．
I．Productive（？．M．Ohio：Wheeling．
Lower Barrens．Ohio：Whecling．
Epuri Bamens．Marshall：Bellton．
Ppper hamens．Marsball：Bellton．
Wilyneshurg（ Monomgellia：（＇assrille．
W゙：ynesharg（＇．Monongalia：（＇assville．
IV：yneshurg（＇．Monongalia：（＇assville．
Wayneshome（＇．Monongalia：Cassville and Dent＇s run．

I'Putromides, Br.
P.merinomis, F. \& W. P. roturdifolim, R. \& W
P.momulitolu, li.d.W.
P. Srhimpercua. F. \& IV.
P. sulfifultorter, W. \& W. P..tenuinctrix, F. \& W

P.riliost, Br:

 W'ayneshurg ('. Momongralial: ('assville. and Imetts wille.
Lower Batrens. Ohio: Wheerling. 1. I'roductive (". 31. K:mathat sia.?
 Waynesburge (1). Jomongali: : ('assville. Ipper Barrens. Itomongalia: Wiser. Waynesburg ('. Monongalia: ('assville. Wrayneshurg (C. Hoddridge: II: I'nion and Monongala: : ('assville.
IVayneshurg (. Monongalia: Caswille.
Waynesburg (: Monomgalia: ('assville and Iranttsville.
Upper Barrens. Monomgali:a: south of Jollytown, l'a, in WI. V:
L. Productive (. . M. Tpper Freeport ( $\%$

1. Productive ( C . M. Kittaming (Goal.

PSEUDOPECOPTELIS(from Pecopteris.).
P.murientu(Br.), $\mathrm{L} x$. Conglomerate. Fayette: Quinnimont, sewell.
P.nerrosu(Br.), Lx. Conglomerate. l'ayette: Quimmimont, Fewell.
P. Pluclienctii(Br.), Lx.
P.Intifolia(Br.), Lx.
l. mincilentu(hlott.), Lx.

Lower Barrens, Ohio: Wheeling.
L. Productive (. M. Kanamha: Coalmont.
L. productive C. M. Kanawha: Coalmont.
Conglomerate. Fayette: Qumnimont and Sewell.
I'. rurdetu-urutu( Weiss. ), Lx. Waynesburg C. Monongalia: Uassville. P. ihfusilum(Mr. J, Lx. L. Productive (… M. Kanawha: Ily yoming Mine near Upper ('reek.
Conglomerate. Fayette: Quinnimont and Sewell.
L. Prodnctive C. M. Boone: Pertona.
l. , ditusilolen, var. diluterte
(1.1. \& II.), Lx. L. Productive ('. II. Boone: Short Creek.
P. Virgininn, Meek), Lx. Pocono or Vespertme. Greenbrier: Lewis Tunnel.
P. spiuntus!, Lx.

Lower Barrens. Ohio: Wheeling.
P. . |ndrernu"(Roehl.), Lx

RIIABDOC.IRPC'S.
R. oblonyyutus, F. \& W.
R. Bocheschimmus, it. \& 13 .
R.rlucutus, (St ), Cicin.

Wrayuesburg ('. Monongalia: ('asstille.
L. P'roductive (!. M. Kanawha: ('ampbell's ('reek.
L. Productive ('. M. Kanawha: Blacksburg.
L. Prorluctive ('. MI. Kanawha: Malden

Mines.
 bells：＇reek．

 bill s（recek．






Sower bamens．（）hio：Whereling．
Waynestmre（＇．Monomgalia ：Cassville． W＇aymeshary（＇．Jomomgalial：（＇assville． Wayneshmrg（＇．Honongatha：（＇assville． Wayueshurg（＇．Doddridge：West I nion． Wayneshnrg＇（＇．Dodhridge：West Vnion．
－U1OHT．Fi．


sLill／A．AR1．

S．M／rmalii，Br：
心．semtullotu．Br．

心．．＂！y＂slifolime frerm．

N．demsifalimtum，K．\＆W．
 ぶ』liculme．｜x．

N．｜ntifolimm，R．\＆ 11.
S．longifnlinn，lierm．
ぶッhom！！ifiliam：ierm．

N．Nomhthrimii，lir．

Waynesburg（＇．Monongalia：Arnetts－ ville．
Ipmer heds aboye the Pittshurg coal．
L．Productive（＇．M．sita．？

Waynesburg（＇．Mounngalial（＇assville， lent＇s linn．
Ipper Barrens．Monongalia：Wadestown．
Wrarnestorg（＇．Monongalia：Cassville．
）Lower Barrens．Obio：Wheeling．
Lower Barrens．Ohio：Wheeling．
Wayneshurg（！．Honongalia：（＇ass ville．
Wayneshurg（：Dorldridge：W．Vnion．
Wayneshurg（．boddridge：W．Inion．
Waynesharg（＇．Jonongalia：Cassville．
W＇aynesburg（＇．Monongaliat：Crastille．
Wayneshurg（＇．Doddridge：IV．Y＇nion．
Wraynesburgé．Monongalia：（＇assville．
Tpper liarrens．Monongalia：south of
Jollytown，Pa．
1．Jroductive（．．II．Epper Freeport（＇． 1．Productive（＇．M．Kittaming Coal． Wayneshurg（＇．Jonongalia（＇asseville． Ipper Bamens．Monongatia：south of Jollytown，l＇a．
Wisumeshme（．Doddridge：W゙．T＇nion．


－1PHKOOTVERLS．

 Sewell．
S．，＂mriculata：F．\＆W．
W̌aynesburg C．Monongalia：（＇assville．
S. comincon, Fi. \& W.

N. Intminsiomis, Br.

S. trurllw. Br:
S. etryours. Br.
S. furcotu, Br.

s. Hildrethii. Ix.
s. Ilrninghtusii, Br.

N. minntierntu. F. \& W.
S. perchyneries, F \& $\mathbb{W}$.
S. trichactyllites, Br.
S. Grorouhorstii, Br.

SYRINGODENDRON.
S. pes-rotpreali,* 'st.

## T.ENIOPTERLS.

T. Lescminum, F. \& W. Waynesburg (C. Monongalia: C'assville.

T'. Sertherryinua, F. \& W.
Var. "ngustu, F゙. di W.

Tpper Bamens. Monongalia: Browns Bruge.
Wiaymestmrg ('. Momongalia: ('assville.
Lower Proxtuctive ('...I. Kanawha ('o.
Waynesturg (', Momongalia: ('assville.
Tpper Barrens. Monongalia: Fouth of Jollytown. Pat.
Lower Productive ('..I Kanawha: Yalden llines.
Lower Productive ('. M Kanawha: Malden Minr
Lower Barens. Ohio: Wheeling.
Wayneshug ('. Monongaliat: ('assvilla

1. Productive C.M. Kimawla ('o.
('onglomerate. Fayette: Quinnimont
rewell.
Wianesburg C. Doddridge: W'est I'nion.
Waynesburg (C. Doddridge: West Cuion.
Lower Barrens. Ohio: Wheeling.
Waynesburg C. Noddrige: West I'nion.
L. Productive C. M. Kanawha Co.
L. Productive (1, Ma Kanawha Blacksburg.

Lower Barrens. Ohio: Wheeling. Waynesburg C. Monongalia: ('assville.? Waynesburg C. Monongalia: ('assville.?

TRIGONOCARPTAS.
T. Aorggrouthii, Br.
T. rimpullifformis, Lx.

## TRIPHYLLOP'TERIS.

T. Lescurinu(Meek.), lax. Vespertine. (Areenbrier: Lewis Tunnel.

[^3]
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fieramium $\quad$ Sto．
（ierarlia 420.
（icum Bio！．
（iillemia ：3，）．）．

（ilcoporits in）．）．
rilyertion $47: 3$.
（imaphatium ：39．）．
（iomolohus fos．
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（iratiolar $4!$ ）．
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Homaloremehrus tik．
Toustonia ふ亏．）．
Humulus tir．

Ilvolastis $\quad ; 2$ ：$:$



l．x－imarlhia f（1．）．

 ：3i．）．

Mambolia $\quad \therefore 2: 3$.

lainthe！！m！u $14!$ ．
Halaxi－t＋t．
Mal：a ：3：א
M，\I，V
\：1ロに！
Marchantia 4！s．
Marmbium tos．

Merlonlar fro．
Merlic：an ：： H ．
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Melanthima tion．

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Nyェッ：：刀二小。
（）lmantia f（）！）．
（blonter－hixanat t！）
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（）leonothori： 36

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（）R（＇HIO）EE 44t．
（）rohis 44\％．
（）rinthomalum fö）．
（OROBANOHIC（E．E t．2．
Orthotriv（tum t！！）

（）emoundar $4 \times:$ ）．
（）stiv： 40 ．
（）xali－$\quad:+0$（
（）xrooreus ：3！9！）．
Oxvilembrum 401.

P＇anirularia 47：
Panlecum flit．
l：amus o0：＇）．
Paparer $\quad 32$ 乘。
PNPAVERACEA $\because \because 6$ 。
Parmolia t！！！
Pamatsiar Bliz．
l＇alomvehia fiso．

Paspalum $\quad 4$（it．


Postinalar 3－
Pedicularis tol．
Pellara ti！）．




## ERRATA.

I. alf line 32 for "or name initial" read: name or initial.

1'. 317 line 1 crase "nore."
I': 320 line 18 , for "alt. 200 ft ." read : alt. 2000 ft .
[', 323 line 13, for "Z. apiifolia" read: $\mathbb{Z}$. apiifolia.
 Masci. I have not the opmontunity to properly do-
c.an termine which shouhd stand; doultless the moss. P. :33 line 16 insert:
V. canina, L. var: Muhlenbergii(Torr.), Gray. Fayette: at foot of cliff near Nuttallburg-L. W. N. .
P. 344 line $2 t$, for "woons" rearl: woods.
P. 468 line 18, for PHILARIS, read: PHALARIS.

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[^0]:    A. spisatum, Lam. Mountain Maple.

    Same localities as previous species, except Faycte, but more plentiful where found. Greenbrier: near White Sulphur Springs. McDowell: near Elkhorn.

[^1]:    ＊Anthoplayia and Pteridophyta only．

[^2]:    "(1) Wrorthomii las

[^3]:    *Sypingodendron pestapreoli. is sternberg's genus and spocies and may be credited atecorl-l ingly. Geinit\% desernbed it as sigillaria. Fromgmiarti. amd ransferred stanberes.: sp. to sigil-
    
    
     ppecifie name is adopted, Syringodendron pes-coprenli. St. Either is admissible. 1 foll widl Prol. Lesix. though Sternbery has priority of nome, but probably backed in satisfactory deseriptinn, wiving Geinitz name, wiven above, the preference.-R. W. Latoe.

