

Field Note Book

Collection

NUMBERS

No 4.

H. A. ALLARD.

4767-6103

H. A. Allard Field Notes 4767-6103

See #4895, 4896, 4897
collected under date of May 12, 1938
on Short Mountain, Massachusetts;
Mr. W. W. Diehl on this trip.

This material entered out of
date under #4896 = Cetaria islandica

June 5, 1938. Collected around Hoperell
Gap, Bull Run Mt., with Mr. Gurney, U.S.N.M.

May 8, 1938. To Devil's Hole Mt. in the
Alleghenies with J. E. Lauritzen.

To Devil's Hole Mt. April 30, ¹⁹³⁸, with T

Dr. F. J. Hermann on July 30,
1938 identified all my northern Cyperaceae
from Mt. Katahdin and Mt. Washington

Allard, H. A. Mass., Me., Va., W. Va.
1938-1939.

Book 4.

Field Notes nos. 4767 - 6103.

Cyperaceae
his request. all Cyperaceae in this book
identified by him (see lists)

Mt. Washington ^{N.H.} 6293 ft. alt.

Mt. Katahdin, Maine = 5276 ft. "

Climb Mt. Katahdin July 4, 1938

" over slope of " " 5, 1938

" to top of Mt. Katahdin " 6, 1938.

" Mt. Washington via. Tuckerman's Ravine July 11, 1938

" Mt. Washington, N.H. " Tuckerman's Ravine. July 13, 1938

June 26, 1938. To Hoperell Gap with T.
walk across Castell's field to high
knossedge field, thence near old mansion
in woods and up High Point slope
thence to car along ridge.

July 24, 1938. To Hoperell Gap and next slope
below High Point with T. Same
trip made again to same areas July 31, 1938

August 13 & 14, with T. Visited Bull Run area
in vicinity of Thoroughfare Gap and
Broad Run station. Stay overnight near
wood stock. August 14, 1938 drive to old
abandoned CCC camp on North Mt. near
Devil's Hole Mt. and do most of collecting
here in low ground below spring at
the abandoned CCC camp; alt. about 3800 ft.

{ what is Carex orales authority
{ see #4779

Oct. 5, 1938. To Hoperell Gap (with)
with Dr. F. J. Hermann.
B-2-B-1

Prunus nigra forma globosa - #5688
(Oct. 9, 1938)

Manufactured by
U. S. Government Printing Office

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on Short Mountain, Massachusetts;
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Dr. F. J. Hermann on July 30,
1938 identified all my northern Cyperaceae
from Mt. Katahdin and Mt. Washington
areas. He has recently come into the
Division of Plant Exploration and
Introduction as Associate Botanist.
He is a very likeable and confident
fellow it would appear.

am submitting all my Virginia
Cyperaceae to him today, Aug 1, 1938 on
his request. all Cyperaceae in this book
identified by him (see lists)

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in vicinity of Thoroughfare Gap and
Broad Run station. stay overnight near
wood stock. August 14, 1938 drive to old
abandoned C.C.C. camp on North Mt. near

of collecting
spring at
alt. about 3800 ft.
authority

of (month)

with Dr. F. J. Hermann.
B-2-B-1

Manufactured by
U. S. Government Printing Office

Prunus nigida forma *globosa* - #5688
(Oct. 9, 1938)

Plants collected by Dr. F. J. Hermann
with me in Bull Run Mts Oct. 5, 1938.

- on #9887: *Lepidogia stipulacea* Moench
old field west slope near Mrs. Cox's.
- Mr. #9888 *Analopha gracilens* Conz
near brook - west slope below White Rocks.
- Thru #9905 *Bartonia virginica* (L.) BSP
in valley road on bank north of
Mrs. Ahlby's
- da # *Monstropa hypophytus* var. *nuba* (Torr.) Tamm.
in woods near #9905
- jun add these to my list when pub.
- Gap To: (How about *Digitaria bifurcata* ?

1939
from

Cyper
lins
ides

Rufus laciniatus Willd.
= #5614 - (Sept. 22, 1938)

- #4216a = *Cladonia furcata* var. *ramosa* (Noffm.) Th. Hale.
#5757a = *C. cristatella* f. *ochrocarpia* Tuck. → Hale.
#5772a = *C. " f. scyphulifera* Sandst.
all in Bull Run Mt.

- #4618 = *Cladonia squamosa* f. *briocorticata* (Del.) Franz
and (" " *rigida* Del. according to
Sandstedt,
on Little Stony Creek. Dent's Hole Mt.

- #6066 *Cladonia squamosa* f. *lanceolata* var.
fide. Sandstedt - 4 from Bull Run Mt.

- #5054 = *Atraria islandica*.

See 4784 - water plant at
Berkeley Mill.

Pure white *Prunella vulgaris*
= #5353.

Carex virescens Muhl
 4767 wooded slope at
 (2) shooting spring,
 above Bererley Mill

(Ident. by F. J. Hermann)

Bull Run Mt., Va
 Fannin Co.,
 Thoroughfare Gap,
 May 22, 1938
 H. A. Allard

4768 *Senecio smallii* Britton
 (3) on railroad bank at left
 of railroad above (west) of Bererley Mill.
 abundant; full bloom

4769 *Oxalis violacea* L.
 (1) on Broad Run flood plain
 above Bererley Mill
 abundant, full bloom in damp woods etc.

4770 *Hydrophyllum virginianum* L.
 (2) on flood plain of Broad Run
 just above Bererley at left of railroad.
 abundant here; full bloom. My first
 locality for Bull Run area.

4771 *Carex rosea* Schreb.
 (1) Flood plain on Broad Run
 above Bererley Mill in moist,
 shaded woods here

(Ident. by F. J. Hermann)

4772 *Carex caroliniana* Schumacher
 (1) Growing with # 4771
 (Ident. by F. J. Hermann)

4773 *Houstonia purpurea* L.
 (1) Growing with # 4771

4774 *Enphorbiaceae*
 on flood plain
 of Broad Run
 (1) above Bererley Mill.

Bull Run Mt., Va
 Thoroughfare Gap,
 Fannin Co.
 May 22, 1938
 H. A. Allard

= *Tithymalus obtusatus* (Pursh.) K. P. Donke

4775 *Carex lurida* Muhl.
 (1) on flood plain with # 4774
 (Ident. by F. J. Hermann)

4776 *Carex flaccida* Schreb.
 (2) really *Poa trivialis* L. on specimen
 Growing with # 4774: abundant.
 (Ident. by F. J. Hermann)

4777 *Carex flaccida* Schreb.
 (1) Growing with # 4774
 and *Carex flaccida* (Kuhn) Schreb. (Ident. by F. J. Hermann)

4778 *Juncus*
 (1) on Broad Run with # 4774
 also *Juncus acuminatus* Michx. (Ident. by F. J. Hermann)

4779 *Asteraceae*
 (1) Growing with # 4774
Carex flaccida Schreb. (Ident. by F. J. Hermann)

4780 *Carex lurida* Muhl.
 (2) Growing with # 4774
 (Ident. by F. J. Hermann)

Carex laevigata (Kühn) Mack Bull Run Mt., Va.
 on flood plain Thoroughfare Gap.
 4781 of Bull Run Broad Run Fanning Co.
 in woods below May 22, 1938
 on rail road just above H. A. Allard.
 Beverley Mill. (Ident. by F. J. Hermann) e

4782 *Carex laevigata* (Kühn) Mack ditto
 Growing with # 4781
 Ident. by F. J. Hermann. e

4783 *Juncus macr.* S. F. Gray ditto
 Growing with # 4781
 Ident. by F. J. Hermann. e

4784 *Chara* ditto
 " *Nitella*

In stagnant pool on Broad Run
 flood plain just above Beverley Mill.
 My first record of this in Bull Run area.
 4785 Note shagbark hickories. Pool filled
 with algae & large eggs.
 " *Graminea* *Fastua obtusa* Spreng.
 Growing near # 4781 ditto e

4786 *Carex grisea* Wahl. ditto
 Growing with # 4781
 Ident. by F. J. Hermann e

4787 *Conocarpus* ditto
 " *Hepatica*.
 On wet bank on Broad Run
 just above Beverley Mill.
Juncus ovifolius (DC.) Steud. e

Moss
 on wet soil beside Broad Run
 4788 just above Beverley Mill Fanning Co.
 May 22, 1938
 H. A. Allard

4789 *Hepatic* ditto
 " on wet bank on Broad Run
 just above Beverley Mill

4790 Moss ditto
 Growing with # 4788

4791 Lichen ditto
 " On rocks mostly submerged
 in Broad Run just above
 Beverley Mill. Hard, crustose,
 light ashen gray color. Terraneously
 held on rocks, not practically at water line.

4792 *Crataegus crux galli* L. ditto
 (2) anthers yellow
 In meadow beyond Beverley Mill west of
 Thoroughfare Gap. a few flowers out
 4793 still evident; mostly past fl. e

(2) *Carex annueta* Pickers ditto
 In meadow north of Broad Run
 station at left of mill road, where
 cooling station stands and R. R. trestle
 4794 sharply west toward The Plains.
 all plants identified by Hermann. ditto

" *Carex annueta* Pickers ditto
 In same meadow as bog with # 4793.
 (Ident. by F. J. Hermann) e

Carex stipitata Michx.
In bog just north of
Broad Run Station
4795 and west of rail road
(2) where coal mining station is
and rail road turns sharply
west to The Plains. (Ident. by F. J. Hermann) e

4796 *Carex vulpinoidea* Michx.
(2) Growing with # 4795
all from one clump E.
(Ident. by F. J. Hermann) e

4797 *Carex vulpinoidea* Michx.
(1) Growing with # 4795
(Ident. by F. J. Hermann) e

4798 *Carex vulpinoidea* Michx.
(2) Growing with # 4795
all of clump C
(Ident. by F. J. Hermann) e

4799 *Carex vulpinoidea* Michx.
(1) Growing with # 4795
(Ident. by F. J. Hermann) e

4800 *Carex gracilescens* Steud. (not identified)
(3) In same bog with # 4795
(all from clump i) and *Carex grisea* Vahl.
(Ident. by F. J. Hermann) e

4801 *Carex lurida* Vahl.
(4) In same bog with # 4795
(all from clump j.)
(Ident. by F. J. Hermann) e

Spiraea latifolia
In meadow
4802 above Broad Run
station and between
" rail road and highway from # 55
to Hotwell Caf. My first record of this
in Bull Run area; not in River; e
one clump, only, found.

4803 *Sisyrinchium graminoides* Richm.
(3) Growing with # 4802;
abundant, full bloom. e

4804 *Carex lasiocarpa* (Kühn) Mark.
(2) Growing with # 4802
(Ident. by F. J. Hermann) e

4805 *Glyceria striata* (Lam.) Hitchc.
(1) Growing in swale with # 4802;
abundant near everywhere in
red ground; full bloom; e
very attractive.

4806 *Carex lurida* Vahl.
(2) In bog with # 4802
(Ident. by F. J. Hermann) e

4807 *Carex incomperta* Richm.
(1) Growing with # 4802
(Ident. by F. J. Hermann) e

4808 *Carex festuacea* (Schubert) Imms.
(1) Growing with # 4802
(Ident. by F. J. Hermann) e
= *C. normalis*

Carex gracilescens Steud. Bull Run Mt., Va.
In bog just north of Thoroughfare Gap.
Broad Run station Fausquier Co.
and between highway May 22, 1938
to Hagerman Gap and H.A. Allard
railroad.

(atypical)
(Ident. by F. J. Hermann)

4810 *Sisyrinchium graminoides* Michx.
(2) Growing with # 4809 ditto
in same meadow; abundant; full
bloom.

4811 *Carex pisca* Wahl.
(2) Growing with # 4809 ditto
(Ident. by F. J. Hermann)

4812 *Carex gracilescens* Steud. (atypical)
(4) Growing with # 4809 ditto
(Ident. by F. J. Hermann)

4813 *Carex laeviraginata* (Kükenth.) Mark.
(2) Growing with # 4809 ditto
(Ident. by F. J. Hermann)

4814 *Carex vulpinoidea* Michx.
(1) Growing with # 4809 ditto
(Ident. by F. J. Hermann)

4815 *Carex vulpinoidea* Michx.
(1) Growing with # 4809 ditto
(Ident. by F. J. Hermann)

Carex laeviraginata (Kükenth.) Mark. Bull Run Mt., Va.
all from one clump # K
4816 Growing in bog with # 4809 May 22, 1938
(3) Ident. by F. J. Hermann

4817 *Carex lurida* Wahl. (immature)
(2) Growing with # 4809 ditto
all from one clump L
(Ident. by F. J. Hermann)

4818 *Senecio smallii* Britton ditto
(2) In meadow with # 4809:
abundant; full bloom

4819 *Sphenopholis intermedia* (Hyd.) Rydb.
(2) On rippled bank by Hagerman
Gap road, west slope just north of
Broad Run station.
full bloom; attractive.

4820 *Lonicera japonica* Thunb.
(5) Road side at Broad Run station ditto
west slope; flowers reddish pinkish,
as compared with those of other plants.
abundant; full bloom in thickets.

4821 *Camelina microcarpa* Andry.
(2) Railroad banks just above
Berkeley Mill; abundant here; flowering.

4822 *Anthemis arvensis* L.
(3) on railroad at Berkeley Mill; ditto
abundant here; full bloom.

Medicago lupulina L. Bull Run Mt., Va.
Legume. Fannin Co.
fl. yellow; seeds reticulated black; Thoroughfare Gap,
4823 nestled along May 22, 1938,
(2) railroad at Thoroughfare Gap, H.A. Allard, e
Berkeley Mill: abundant here; full bloom.

4824 *Carex squarrosa* L. ditto
On flood plain of Broad Run
(1) just above Berkeley Mill. e
Heads almost globose.
(Ident. by F. J. Hermann)

4825 *Panicum boscii* Poir. All arts garden
(1) In wet garden; 3000-7th St. N., Va.
abundant forming Arlington, Va.
large clumps. May 25, 1938
H.A. Allard. e

4826 *Potentilla recta* L. Near Clark Station, Va.
(1) Roadside near West Pass Arlington Co.,
brick yard; full bloom. May 25, 1938.
Rare in this area. H.A. Allard. e

4827 *Lierum* Three Mile Mt., Va.
(1) On stone in woods Shenandoah Co.
May 28, 1938
H.A. Allard

4828 *Umelanchier canadensis* (L.) Medic. ditto
(2) On steep ledge outcrops
at top; very abundant; ripening; fruit red. e

4829 *Panicum ashei* Pers. ditto
(1) On top of rocky outcrop; dry e
Panicum ashei Pers.

Umbilicaria pustulata Three Mile Mt., Va.
on dry sandstone Shenandoah Co.
4830 outcrops and ledges May 28, 1938
(1) everywhere at top; very abundant. H.A. Allard

4831 *Mass.* ditto
(1) A solid mass on dry shales
there a huge pile made by myriads
for coal in past; in heavy woods.

4832 *Cladonia* ditto
(1) reindeer moss
Low down on north slope
on soil

4833 *Lichen* ditto
(1) *Peltigera* 2
siber. gray. Low down on north slope
on soil; abundant here. Have seen med with
this sp. before

4834 *Carex vulpinoidea* Michx. ditto
(1) In wet meadow at foot north
slope near wheat & cornfield here.
(Ident. by F. J. Hermann)

4835 *Cyperus lineatus* Michx. ditto
(2) at foot of north slope e
in wet meadow near
Stony Creek. Ident. by F. J. Hermann

4836 *Carex sp.* (Thun.) Mark. Devil's Hole Mt., Va.
(1) In dry soil below Shenandoah Co.
May 30, 1938
H.A. Allard, e
marked car on Little
Stony Creek. Ident. by F. J. Hermann

Carex mulleriana Schreb. Shenandoah Mt. Va.
 May 30, 1938
 4837 by roadside
 near re park
 (1) car just below
 Mr. Hines' place in dry soil &
 (Ident. by F. J. Hermann)

4838 Moss
 Trail down Mill Mt. Va.
 Shenandoah Co.
 May 29, 1938
 H. A. Allard

(1) wood root along
 Little Stony Creek &
 all above Coffelt's
 on soil. A brilliant, scintillant yellowish green
 with a silky, silvery sheen; very beautiful.
 4839 *Carex glandularis* Michx.
 Shenandoah Mt. Va.
 Shenandoah Co.
 May 29, 1938
 H. A. Allard
 (2) all from clump A
 at parking place
 below Hines' house.
 (Ident. by F. J. Hermann)

4840 Moss
 (1) In damp ravine
 deep down in moist
 rock surfaces
 Three Mile Mt. Va.
 on rocks in damp ravine
 on north slope
 Shenandoah Co.
 May 28, 1938
 H. A. Allard

4841 *Cyrtus breatus* Michx.
 (2) at spring at foot of north
 slope in open area in
 red soil. ditto
 (Ident. by F. J. Hermann)

4842 *Carex squarrosa* L.
 (1) In wet sparsely spring
 in open at foot of north slope
 (Ident. by F. J. Hermann)

4843 Lichen
 (1) In damp ravine on soil.
 Color ashen gray.
Peltigera? abundant here.

Lichen - Three Mile Mt. Va.
 Shenandoah Co.
 May 28, 1938
 H. A. Allard
 4844 on rocks
 near # 4843
 in same ravine
 (1) abundant here

4845 *Asplenium canadense* L. ditto
 (1) Shaded woods on north
 slope half way down;
 abundant; full bloom; flowers
 hidden beneath the duff.

4846 *Ribes muscularia rotundifolia* (Michx.) Cor. Britt. ditto
 (2) On upper slope near
 ledges; scattered.
 (white lines at foot)

4847 *Asplenium rotundifolium* L. ditto
 (5) On highway near wood stock.
 Locally abundant here; full
 bloom. Great Valley
 Shenandoah Co. Va.
 May 29, 1938
 H. A. Allard

4848 Mint - *Hebeclia ciliata* Raf.
 (4) Purple flowered; by roadside
 near Maurertown on Valley Pike;
 only one colony seen.
 very strong in grass; stools ditto

4849 Moss.
 (1) In damp ravine
 with # 4843 on bank
 a brilliant silky green with
 a bluish sheen. Three Mile Mt. Va.
 Shenandoah Co.
 May 28, 1938
 H. A. Allard.

4850 Moss
 (1) on rocks in same ravine ditto
 with # 4843

- Moss
on rocks in damp, shaded ravine on
north slope half way down.
4851 Three Mile Mt., Va.
Shenandoah Co., Va.
May 28, 1938.
H.A. Allard.

This a very damp moss covered ravine
extremely damp, shaded and rich masses.

- 4852 Moss
" In same ravine with # 4851 ditto
on rocks

- 4853 *Carex cephalophora* Muhl.
" on bank near Mill Mountain for
3 mi. Coffelt's along
Little Stony Creek.
Shenandoah Co.
May 29, 1938
H.A. Allard. e

- 4854 *Cladonia*
" (Reindeer Moss).
On trail near # 4853 ditto

- 4855 *Carex hirsutella* Mark.
" Damp soil on same trail
in woods near # 4853 ditto
(Ident. by F. J. Hermann.) e

- 4856 Moss
" Submerged on rocks in cold
brook flowing into Little Stony Creek.
in woods 2 miles above Coffelt's.
bright green, ditto

- 4857 *Carex acutivalis* Schumacher.
" Growing in wet soil
near # 4856. ditto
(Ident. by F. J. Hermann)

- Carex scoparia* Schkuhr. Same trail from Mill Mt., Va.
Shenandoah Co., Va.
May 29, 1938
H.A. Allard.
4858 In wet spot
by brook 3 miles
up Little Stony Creek from Coffelt's
(Ident. by F. J. Hermann)

- 4859 *Carex incomperta* Bickn.
" Growing in wood road ditto
near # 4858 e
From same clump A.
(Ident. by F. J. Hermann)

- 4860 *Hepatic*
" On rocks in Three Mile Mt., Va.
Shenandoah Co., Va.
May 28, 1938.
H.A. Allard. ditto
damp wooded ravine
half way down north
slope; abundant.

- 4861 Moss
" In same ravine with
4860 on rocks ditto

- 4862 Moss
" On rocks with # 4860 ditto

- 4863 Moss
" On rocks with # 4860 ditto

- 4864 Moss
" On rocks with # 4860 ditto.

Moss
on rocks in damp
wooded ravine
4865 on north slope
(1)

Three Mile Mt., Va.
Shenandoah Co.
May 28, 1938
H.A. Allard

4866 In same ravine with
(1) X 4865 on rocks; in same
ravine about 4851 ft. green
The only ravine I visited and explored on
the north slope; color very dark green;
4867 it grows down well into deep spaces
between the rocks.

(1) Moss
on rocks in same ravine
with X 4865

4868 *Carex hirsutella* Michx.
(1) On wood road just
above Mrs. Coffelt's on trail
to Mill Mt. Little Stony Creek,
Shenandoah Co.,
May 28, 1938
H.A. Allard.

4869 *Veronica americana* Schreier
(1) By brook just above Mrs. Coffelt's
(flower here)

4870 *Mitchella repens* L.
(1) On bank abundant by
wood road just above Mrs. Coffelt's
on Little Stony Creek.
Full flower and in fruit

4871 *Asplenium montanum* Willd.
(1) On ledge about 1 mile above
Coffelt's; growing in crevices on vertical
cliffs here in deep shade; abundant here.

Moss
on soil on wood
road by Little
4872 Stony Creek.
(1) a beautiful, bright satiny green.

Southern trail of Mill Mt., Va.
along Little Stony Creek,
Shenandoah Co.,
May 28, 1938
H.A. Allard.

4873 Moss
(1) on rocks in brook
submerged near X 4872

4874 Moss
(1) submerged on rocks with
X 4873 in cold brook.

4875 *Medicago sativa* L.
(1) By roadside near
Woodstock, Va.; full
blossom; fl. blue purple

Great Valley of Va.
Shenandoah Co.
May 30, 1938
H.A. Allard.

4876 *Cyperus setosus linearis* Michx.
(3) At bridge near Columbia Turnpike
growing on edge of Stony Creek here
(all from one clump) (ident. by F. J. Hermann)

4877 Grass
(1) Growing beside X 4876
(Not abundant here). Full flower,
Phalaris arundinacea L.

4878 *Bromus commutatus* Schrad.
(2) on higher ground near X 4876;
abundant by roadside near stone
bridge here.

Bromus elatior L.
Festuca
Growing by
4879 roadside, abundant,
(2) near stone bridge
not Columbia Turnpike,
full bloom.

Great Valley of Va
Shenandoah Co.
May 30, 1938
H.A. Allard

Growing with # 4878.

4880 *Scirpus validus* Vahl.

(2) Growing in mud and
water near # 4876 near
(one clump) Columbia Turnpike.
(Ident. by F. J. Hermann)

4881 *Carex hirsutella* Michx.

(3) not spotted by roadside opposite
(N.) of Three Mile Mt. Va.
(all from one clump)
(Ident. by F. J. Hermann)

4882 *Scirpus lineatus* Michx.

(10) Growing in same wet spot
beside # 4881.
(all from one clump.)
(Ident. by F. J. Hermann)

4883 *Panicum boscii* Poir

(3) On steep wooded rocky slope
across Little Stony Creek from Coffelt's
(all from one clump)

4884 *Panicum buchanan* Ashe

(3) Growing below Hines near Little
Stony Creek where we park car

4885 *Aspernatherum elatior* (L.) Mont.

(4) Growing by roadside near
4884: very abundant here;
full bloom. Reflects a silvery light.

Carex Boot
Beside Little Stony
Creek where we park
car below Hines'

Great Valley of Va
Shenandoah Co.
May 30, 1938

4886

(1)

house
(Ident. by F. J. Hermann)

4887 *Carex muhlenbergii* var. *enervis* Boot

(1) Growing in drier ground
close to # 4886
(Ident. by F. J. Hermann)

4888 *Lierwort*

(1) On rocks in very
heavily wooded damp
ravine; abundant
here.

4889

(1) Moss
Very dark green mats on
rocks with # 4888
abundant here.

4890

(1) Moss
On rocks in same ravine
with # 4888: abundant.
a lusterless but deep green.

4891 Moss

(1) Growing on rocks near # 4888

4892 Moss

(1) Growing on rocks with # 4888

Mass. on rocks in damp
 4893 mod. rare
 north slope, half
 way down
 a beautiful bright green species with
 a satiny sheen
 especially beautiful.

Three Mile Mt., Va.
 May 28, 1938
 H.A. Allard
 Shenandoah Co.

4894 *Magnolia acuminata* L. Great Valley of Va.
 (2) Near Mr. Hines' road of Edinburg, 10 miles
 horse house near bank Shenandoah Co.
 car on Little Stony Creek. May 30, 1938
 4895 a huge tree - 2 ft thick
 50-60 feet high. H.A. Allard.

(1) *Cladonia rangiferina*
 on shale at place
 out of date
 4896 *Cetraria islandica*
 (1) *Cetraria islandica*
 with # 4895

Short Mountain
 Massanutten Range
 May 12, 1938
 H.A. Allard

4897 *Cladonia*
 (1) P.P. cup formed
 growing on shale with # 4895
 (Not in order of collection)

4898 *Tragopogon horridus* L.
 (6) (purple flowered) some with very short
 rays and deeper red-purple in color.
 all from near woodstock. May 29, 1938; many
 4899 with mature seed heads; very showy

(5) *Tragopogon dubius* Raf.
 From near # 4898; subsp. major (young) yellow
 all yellow flowered; bracts on 3 plants
 (3; on two 12); anthers later than the
 purple; just maturing seed; about as abundant
 as purple.

Euphorbia lathyris (L.) Mill. Great Valley of Va.
 Shenandoah Co.
 May 30, 1938
 4900 *Hines* see re H.A. Allard
 bank car on
 (3) Little Stony Creek; abundant here.

4901 *Allinson canadense* L.
 (2) Roadside near where re
 park car not far from # 4900
 in flower and producing bulbils.

4902 *Gnaglossum officinale* L.
 (3) In pasture back of Coffelt's
 at foot of Little Stony Creek.
 (abundant; full bloom)

4903 *Vanthera kneffia* (L.) Spach.
 (1) on grounds of Agriculture,
 in Washington, D.C. at
 14 and Independence, beside
 south side. H.A. Allard
 June 3, 1938

4904 *Potentilla recta* L. Bull Run Mt. Va.
 (1) Broadside and edge of flat
 field between H. and marked June 5, 1938
 and right turn west leading to
 to antitank. abundant; full bloom here.

4905 *Holcus lanatus* L.
 (1) abundant in old field and
 pasture and by roadside near
 antitank on right as we leave
 H. and marked by antitank route from
 May first record for Bull Run area
 Not here last year. or very scarce
 Prince William Co.
 June 5, 1938
 H.A. Allard

4906 *Panicum ashei* Pers.
 (2) Reddish lilac suffusion on tips of glumes
 growing grass in mass a vacant east
 On diff. top of High Point.
 Bull Run Mt. Va.
 June 5, 1938 H.A. Allard

Carex digitalis Willd.
woods west slope below
4907 High Point.
(1) (Ident. by F. J. Hermann)

Bull Run Mt., Va.
June 5, 1938
Fauquier Co.
H. A. Allard.

4908 *Carex cephalophora* Muhl.
(1) Growing near # 4907
(Ident. by F. J. Hermann)

ditto

4909 *Carex digitalis* Willd.
(2) Growing with # 4907
(Ident. by F. J. Hermann)

ditto

4910 *Panicum lucidum* Ashe (Vernal phase)
(2) In rocky swampy ravine below
High Point west slope, in deciduous
woods.

ditto

4911 *Festuca obtusa* Spreng
Gramineae
(2) Near # 4910

ditto.

4912 *Carex gracilescens* Steud.
(1) In pasture across from High Point
(west) on Plains area above *Malus glaucescens*
Rehder grows.
(all from one clump) abundant.
(Ident. by F. J. Hermann)

ditto

4913 *Carex muhlbergii* var. *enervis* Boott.
(1) Growing with # 4912
abundant: usually few stemmed
individuals. (Ident. by F. J. Hermann)

ditto

Panicum lucidum Ashe Bull Run Mt., Va.
Fauquier Co.,
June 5, 1938
H. A. Allard.

4914

(1)

4915 *Carex cephalophora* Muhl.
(1) In deciduous woods
south of pasture above
Malus glaucescens Rehder grows.
on Plains area west of High Point.
(Ident. by F. J. Hermann)

ditto

4916 *Carex hirsuta* Mack
(1) Growing near # 4912
(Ident. by F. J. Hermann)

ditto

4917 *Carex cephalophora* Muhl.
(1) Growing with # 4912
(Ident. by F. J. Hermann)

ditto

4918 *Carex hirsutella* Mack
(1) same locality with # 4912
(Ident. by F. J. Hermann)

ditto

4919 *Carex cephalophora* Mack
(1) Growing with # 4912
(Ident. by F. J. Hermann)

ditto

4920 *Carex hirsutella* Mack.
(1) Growing with # 4912.
(Ident. by F. J. Hermann)

ditto

Gramineae
In pasture near of
High Point on Plains
area where *Malva frutescens* Rehder grows.
4921 *Danthonia compressa* Austin
Bull Run Mt., Va
Fauquier Co.,
June 5, 1938
H.A. Allard.

4928 *Carex hirsutella* Mark
Bull Run Mt., Va
Fauquier Co.,
June 5, 1938
H.A. Allard
Ident. by F. J. Hermann

4922 *Carex cephalophora* Muhl.
Growing with # 4921
Ident. by F. J. Hermann

4929 *Carex muhlenbergii* var. *energia* Boott.
Growing with # 4921
Ident. by F. J. Hermann

4923 *Sphenopholis intermedia* Rydb.
In white Oak grove near of
High Point on Plains area; the large
white Oaks here.

4930 *Carex muhlenbergii* var. *energia* Boott.
Growing with # 4921
Ident. by F. J. Hermann

4924 *Carex muhlenbergii* var. *energia* Boott.
Growing with # 4921
Ident. by F. J. Hermann

4931 *Carex luschii* Mark
Growing with # 4921
Ident. by F. J. Hermann

4925 *Carex muhlenbergii* var. *energia* Boott.
Growing with # 4921
Ident. by F. J. Hermann

4932 *Carex muhlenbergii* var. *energia* Boott.
Growing with # 4921
Ident. by F. J. Hermann

4926 *Carex hirsutella* Mark
Growing with # 4921
Ident. by F. J. Hermann

4933 *Carex panicum-scribnerianum* Nash.
Growing with # 4921

4927 *Danthonia spicata* (L.) Beauv.
with # 4921

4934 *Carex cephalophora* Muhl.
Growing with # 4921
Ident. by F. J. Hermann

Panicum huachucae Ashe Bull Run Mt., Va.
 in pasture west of
 High Point on Plains
 area where *Melina*
 " *fluviatilis* grows.
 June 5, 1938
 H.A. Allard.

4935 *Scleria*. ditto
 in the pine white oak
 woods west of High Point.
 = *Parietaria pennsylvanica* Muhl. e

4937 *Carex cephalophora* Muhl. ditto
 (2) growing with # 4935
 (ident. by F. J. Hermann) e

4938 *Carex muhlenbergii* var. *energia* Boott. ditto
 (1) Growing with # 4935
 (ident. by F. J. Hermann) e

4939 *Carex muhlenbergii* var. *energia* Boott. ditto
 (1) Growing with # 4935
 (ident. by F. J. Hermann) e

4940 *Carex cephalophora* Muhl. ditto
 (1) Growing with # 4935
 (ident. by F. J. Hermann) e

4941 *Panicum scribnerianum* Nash. ditto
 (2) Growing with # 4935 e

Carex cephalophora Muhl. Bull Run Mt. Va.
 growing with 4935
 4942 (ident. by F. J. Hermann) e
 June 5, 1938
 H.A. Allard.

4943 *Panicum basii* var. *molle* (Vasey) H. & C. ditto
 (2) in woods south of
 here # 4935 grass & deciduous e

4944 *Carex scoparia* Schkuhr ditto
 (2) in wet boggy meadow along creek
 just across Hopewell to Broad Run Station road
 near white oak grove and high black walnut
 tree; very wet, boggy here.
 (ident. by F. J. Hermann) e

4945 *Carex vulpinoidea* Michx. ditto
 (3) Growing near # 4944
 (ident. by F. J. Hermann) e

4946 *Carex vulpinoidea* Michx. ditto
 (1) Growing with # 4944
 (ident. by F. J. Hermann) e

4947 *Carex scoparia* Schkuhr. ditto
 (2) Growing near # 4944
 (ident. by F. J. Hermann) e

4948 *Carex vulpinoidea* Michx. ditto
 (3) Growing in same bog with # 4944
 (ident. by F. J. Hermann) e

4949 *Carex scoparia* Schreb. Bull Run Mt., Va.
 In bog near Haperell Gap
 mud slope from High Point
 where big balsam poplar stood
 below white oak grove just
 west of Haperell to Broad Run station
 (Ident. by F. J. Hermann) e

4950 *Carex vulpinoidea* Michx. ditto
 Same bog near # 4949
 (Ident. by F. J. Hermann) e

4951 *Bromus japonicus* Thunb. ditto
 In field (Castell's) where stone
 crabs were, just below quarry
 abundant.
 In cultivation 19 e

4952 *Juncus macrocarpus* S. F. Gray ditto
 Growing with # 4951
 (Ident. by F. J. Hermann) e

4953 *Houstonia purpurea* L. ditto
 Growing with # 4951
 abundant; full flower showing e

4954 *Trifolium procumbens* L. ditto
 In same field; very abundant
 in this pasture where # 4951 grows. e

4955 *Bianthus armeria* L. ditto
 In same field with # 4951.
 also single, but abundant; also in
 high brown sedge field beyond where
 abundant, but less so than in never field. e

4956 *Carex lasiocarpa* Lam. Bull Run Mt., Va.
 In woods beyond
 fine brown sedge
 pasture beyond Castell's
 mud slope near Haperell Gap.
 (Ident. by F. J. Hermann) e

4957 *Carex hirsutella* Mack. ditto
 In high brown sedge field
 (a. scoparia) where co. finely developed
 mud slope just south of Haperell Gap.
 (Ident. by F. J. Hermann) e

4958 *Carex hirsutella* Mack. ditto
 In same field with # 4957
 (Ident. by F. J. Hermann) e

4959 *Carex hirsutella* Mack. ditto
 Growing in same brown sedge field
 with # 4957: scattered all over
 this splendid brown sedge stand.
 (Ident. by F. J. Hermann) e

4960 *Festuca obtusa* Spreng. ditto
 In woods beyond brown sedge
 field near # 4956 e

4961 *Panicum torulatum* Michx. ditto
 In brown sedge field near # 4957 gen. e

4962 *Carex convoluta* Mack. ditto
 In woods beyond brown sedge
 field, - ie with # 4956 e
 (Ident. by F. J. Hermann)

Carex hirsutella Markb.
 In woods
 just beyond fine
 4963 brownedge field
 " beyond Castell's,
 on west slope just south of Hagerell Gap.
 (Ident. by T. J. Hermann)

Bull Run Mt., Va.
 Fannin Co.,
 June 5, 1938
 H.A. Allard.

4964 *Carex lurida* Wahl.
 (4) Beside brook in bog where huge
 black walnut tree grows, near
 fine white oak grove. (Ident. by T. J. Hermann)
 Very abundant here.

4965 *Carex vulpinoidea* Michx.
 (6) In same bog with # 4964
 abundant. (Ident. by T. J. Hermann)

4966 *Carex lasiocarpa* (Kühn) Markb.
 (1) In same bog with # 4964
 (Ident. by T. J. Hermann)

4967 *Juncus effusus* var. *solutus* Torr. et Griseb.
 (2) Tall; in same bog with # 4964
 very abundant (Ident. by T. J. Hermann)

4968 *Dianthus armeria* L.
 (4) In same fine brownedge field
 with # 4957: abundant: light brown.

4969 *Panicum defanporatum* Muhl.
 (2) Growing in same brownedge
 field with # 4957: abundant here.

Panicum defanporatum Muhl. Bull Run Mt. Va.,
 Fannin Co.
 In high brownedge
 4970 field with # 4957 June 5, 1938
 H.A. Allard.
 ")

4971 *Sphenopholis intermedia* Rydb.
 (2) In pasture by brook
 near Big Black Walnut tree just
 west of Hagerell-Broad Run highway

4972 *Panicum defanporatum* Muhl.
 (1) In brownedge field with # 4957

4973 *Carex hirsutella* Markb.
 In high brownedge field so
 (3) well developed beyond Riley cabin
 beyond Castell's; abundant among dunks.
 (Ident. by T. J. Hermann)

4974 *Carex lasiocarpa* (Kühn) Markb.
 (3) In bog with # 4964: abundant
 (Ident. by T. J. Hermann)

4975 *Carex hirsutella* Markb.
 (1) In brownedge field
 near brook for white oak grove is.
 (Ident. by T. J. Hermann)

4976 *Bromus japonicus* Thunb.
 (1) In low ground near # 4975:
 10m or very abundant grass in
 all pastures etc. in area.

Carex vulpinoidea Michx. Bull Run Mt., Va
 In bog near brook
 near Black Walnut
 June 5, 1938
 H.A. Allard
 (1) white oak grove
 (Ident. by F. J. Hermann)

4978 *Glyceria striata* (Lam.) Hitchc.
 In same bog with # 4977:
 (3) very abundant

4979 *Juncus acuminatus* Michx.
 (1) Growing with # 4977
 (Ident. by F. J. Hermann)

4980 *Poa trivialis* L.
 Gramineae
 (1) In field, near # 4977, damp
 ground near brook.

4981 *Dactylis glomerata* L.
 (1) Old field near # 4977, low ground:
 very abundant.

4982 *Bromus cuneatus* Schrad.
 (1) In low ground bog with # 4977:
 abundant here

4983 *Carex scariosa* Schreb.
 (5) In same bog with # 4977,
 forming large clump.
 (all from same clump)
 (Ident. by F. J. Hermann)

Juncus macrocarpa S.F.C. Bull Run Mt., Va
 In same bog. June 5, 1938
 H.A. Allard
 4984 with # 4977
 (Ident. by F. J. Hermann)

4985 *Carex scariosa* Schreb.
 (1) In same bog with # 4977
 (5) (one clump) very abundant
 (Ident. by F. J. Hermann)

4986 *Poa trivialis* L.
 (3) In same low ground bog
 with # 4977: abundant.

4987 *Senecio smallii* Britton
 (3) abundant in high brown sedge
 field beyond brook and old Riley
 cabin S.W. of Castle's: full bloom
 abundant everywhere in building area.

4988 *Houstonia missouriensis* L.
 (2) In same brown sedge field
 with # 4987: abundant: full bloom

4989 *Aporosa pubescens* R.Br.
 abundant in same brown sedge
 field with # 4987: a constant
 constituent: full bloom or just
 coming in.

4990 *Rosa virginiana* Mill.
 (2) In same brown sedge field
 with # 4987: abundant here:
 full bloom: showy.

Pentstemon pallidus Small
 4991 Very abundant by roadside in road leading
 (9) ad in old field (damp) from #55 highway
 near Antioch. May first June 5, 1938
 found in Bull Run area: H.A. Allard.
 not seen here in 1937, or since.
 very scarce: now very abundant. William Co.
 Corolla pale almost white.

4992 *Asplenium platyneuron* L. ^{var. *platyneuron*}
 (1) In first horned edge field Bull Run Mt., Va.
 beyond Riley's mining in Franquier Co.
 in places - around rocks etc. June 5, 1938
 first fern to appear. south of Hoperell Gap. H.A. Allard

4993 *Rosa blanda* virginiana Mill
 (1) In same field with # 4992 ditto
 abundant: full bloom here

4994 *Sparganium angustifolium* R. Br.
 (3) In same horned edge field ditto
 with # 4992: abundant; just in flower
 a common constituent of horned edge fields; in woods.

4995 *Botrychium virginianum* (L.) Sw.
 (2) In woods south of Males glaucescens Rabenh. ditto
 abundant here in all woods of Bull Run mts
 just shedding spores.
 also abundant on west slope below High Point.

4996 *Dryopteris goldiana* (Hook.) Gray
 (4) In swampy ravine west slope ditto
 below High Point.
 Very beautiful.

4997 Lichen
 (1) On twig. In Alleghenies Varon
 on trail to Mill Mt., Va. Little Stony Creek west
 beyond Coffelt's. of Columbia Turnpike,
 Shenandoah Co.
 May 30, 1938
 (Date not of consecutive ad.) H.A. Allard

On soil Bull Run Mt. Va.
 In old horned edge south of Hoperell Gap
 fields in bare 2 old horned edge fields
 4998 sparse between just west of Hoperell to
 (1) clumps: *Cladonia cristatella* f. *hansvossii* (Del.) Stein
 apothecia red. *vestita* Tuck. (apothecia discolored)
Cladonia ~~flava~~ *flava*

4999 On soil near Cladonia ditto
 (1) - *C. grayi* Mer. [P] # 4998

5000 On soil near # 4998 ditto
 several *Cladonia piedmontensis* f. *lepidifera*
 (main) *Peltigera* plus f. *squamulosa* *Peltigera*, but
 rather doubtful

5001 *Cladonia piedmontensis* Mer., but
 several On soil in old horned edge field ditto
 with # 4998 apothecia red

5002 *Cladonia cristatella* f. *hansvossii* (Del.) Stein
 several On soil near # 4998 plus f. *vestita* Tuck. ditto
 apothecia red (apothecia discolored)

5003 *Cladonia cristatella* f. *hansvossii* (Del.) Stein
 several On soil with # 4998 mostly but apothecia discolored.
 5003a = apothecia red 5003a and 5003b: ditto
 5003b = *C. subcariosa* f. *evoluta* Wain.
 5003c = *C. verticillata* (Hoffm.) Schaer.

5004 *Cladonia cristatella* f. *hansvossii* (Del.) Stein
 several On soil with # 4998 (apothecia discolored) ditto
 5004a = *C. cristatella* f. *vestita* Tuck. L.
 5004b = *C. verticillata* f. *evoluta* (Th. Fr.) Stein
 5004c = *C. subcariosa* f. *evoluta* Wain + *C. cristatella* Tuck.

Cladonia
 * On soil in old
 browned field.
 5005 several apothecia brown
C. pyxidata var. *neglecta* f. *simplex* (Ach.) Harmer.
 Bull Run Mt., Va
 south of Haperell Gap
 west of Haperell Gap
 Broad Run Sta. highway
 June 12, 1938
 H.A. Allard

5006 *Cladonia subcariosa* f. *evoluta* ditto
 with * 5005 (Young podetia) brown
 several? on soil.
 apothecia brown

5007 *Cladonia subcariosa* f. *evoluta* brown, ditto
 several? On soil near * 5005 mostly
 5007b = *C. pseudomontana* f. *lepidifera* (Horn) Kuhn
 5007a = same as 5007.
 apothecia brown

5008 *Cladonia verticillata* (Hoffm.) Schuerm.
 not very definite as to form. ditto
 several On soil near * 5005
 5008a = *C. verticillata* f. *evoluta* (Th. Fr.) Stein
 5008b = *C. subcariosa* f. *evoluta* (Th. Fr.) Stein
 apothecia brown

5009 *Cladonia verticillata* f. *evoluta* (Th. Fr.) Stein.
 several On soil with * 5005p. ditto

5010 *Oenothera fruticosa* var. *vera* Hook.
 (5) (sundrops) ditto
 on Triassic by roadside near Antioch,
 on road way from #55 to Antioch.
 abundant, full bloom

5011 *Sutellaria integrifolia* var. *typica* Epl.
 (1) By roadside near * 5010 ditto
 scattered, full bloom; showing, here. e

Rumex obtusifolius L Bull Run Mt., Va
 June 12, 1938
 H.A. Allard
 5012 In waste ground by roadside south
 of Haperell Gap near south of Haperell Gap.
 (1) old mansion in woods on west slope below High Point.
 a very abundant species. e

5013 *Sutellaria ovalifolia* var. *multis* Epl. ditto
 (1) In woods just south of high
 browned field, on west slope
 near High Point. e

5014 *Sphenopholis obtusata* (Michx.) Scribn. ditto
 (1) In woods near * 5013
 scattered through deciduous woods on
 the slopes, but weak in making bunches
 never abundant; full bloom; delicate. e

5015 *Carex hirsutella* Mark.
 (2) From high browned field beyond
 old Riley cabin south of Haperell Gap.
 abundant here but in few stemmed clumps.
 all from (Horn) G. e

5016 *Carex vulpinoidea* Michx. ditto
 (1) From small bog beside brook
 near big Black Walnut tree, a just
 east of old cabin near big White Oak
 rose. (ident by F. J. Hermann) e

5017 *Cladonia*
 (1) and *Lecobryum albidum* (Moss) Short Mt., Va
 on shales with *Cetraria islandica* Shenandoah Co.
 on S.W. slope of Short Mt., Va
 June 14, 1938
 H.A. Allard

5018 *Cladonia*
 (1) apothecia brown
 Growing with * 5017. ditto
 some *Lecobryum albidum* with *Cladonia*

Feetuna elation L. Bull Run Mt., Va.
Gramineae. Fannier Co.,
Roadside south of June 12, 1938
H.A. Allard
5019 Hopewell Gap 1/4 mile south of Hopewell Gap.
(4) near old mansion in woods on west slope and on north slope below High Point; abundant here.

5020 *Anodea sensibilis* L. ditto
(2) In ground thickets near # 5019
Plants very large, waist high; abundant.

5021 *Carex hirsutella* Michx. ditto
(2) In old brown sedge field near # 5019
but west of stream and Hopewell to Broad Run
station highway; abundant in ten stems and
clumps among the Andropogon.

5022 *Carex proserpinacifolia* Schreb. ditto
(1) In old yard of old cabin, heavily
shaded by trees. A dense pure stand
on a sod base of considerable size. Mature
stems green with many.

5023 *Carex flaccida* Michx. ditto
(1) In bog south of Hopewell Gap and
old, large, black walnut tree of cabin
just west of Hopewell to Broad Run highway.

5024 *Juncus effusus* var. *solutus* Torr. ditto
(3) very abundant in large clumps
in same bog with # 5023
(all from same clump) ident. by F. J. Hermann

5025 *Carex vulpinoidea* Michx. ditto
(3) In same bog with # 5023
abundant; forms large, old clumps.
(all from one clump)
ident. by F. J. Hermann

Carex vulpinoidea Michx. Bull Run Mt., Va.
Fannier Co.
In bog with # 5023 June 12, 1938
H.A. Allard
5026 (ident. by F. J. Hermann)

5027 *Carex vulpinoidea* Michx. ditto
(4) In same bog with # 5023
(From one clump)
ident. by F. J. Hermann

5028 *Carex vulpinoidea* Michx. ditto
(5) all from bog with # 5023
(same clump.)
ident. by F. J. Hermann

5029 *Juncus acuminatus* Michx. ditto
(4) Growing with # 5023
ident. by F. J. Hermann

5030 *Salix nigra* Marsh. ditto
(5) In same bog with # 5023;
abundant here.

5031 *Aprocyrum pubescens* R. Br. ditto
(5) abundant all over high brown sedge
field beyond Riley's old cabin
where they formerly lived.

5032 *Ceanothus americanus* L. ditto
(2) Growing near # 5031; in same
field as an undershrub in this brown sedge
field; abundant; full flower.

Lysimachia quadrifolia L. Bull Run Mt., Va
 In high broadedge Tangier Co.,
 5033 field beyond Riley's June 12, 1938
 old cabin home south of H.A. Allard.
 (4) of Hopewell Gap: abundant; full flower.

5034 *Sphenopholis Poa compressa* L.

(1) In woods just beyond spring
 at Riley's cabin at Castello's
 road slope.
 abundant; full flower.

5035 *Carex swanii* (Tern.) Mack.

(1) Growing near # 5034
 ident. by F. J. Hermann

5036 *Carex swanii* (Tern.) Mack

(1) Growing near # 5034
 ident. by F. J. Hermann

5037 *Sphenopholis Poa compressa* L.

(1) Growing in same woods with # 5034

5038 *Carex hirsutella* Mack.

(1) Growing near # 5034
 ident. by F. J. Hermann

5039 *Scutellaria perfoliata* L.

(3) In clearing in woods by
 sandstone heap just south of
 Riley's spring near their old cabin,
 road slope, just south of Hopewell Gap.

Carex frankii Kunth Bull Run Mt., Va

a huge clump in Tangier Co.

5040 yard of old cabin June 12, 1938
 Riley's lived in H.A. Allard.

(8) just south of Hopewell Gap.

(much rust on leaves)
 ident. by F. J. Hermann

5041 *Geranium carolinianum* L.

(3) Growing with # 5040

abundant; nearly past.
 var. confertiflorum Tern.

5042 *Dianthus spicata* (L.) Beauv.

(1) Near old cabin where
 5040 grew; abundant in old
 pastures.

5043 *Juncus secundus* Beauv.

(1) In old pasture beyond
 Riley's cabin just south of
 Hopewell Gap; abundant in
 these pastures.

5044 *Lobelia spicata* Lam.

(3) In old pasture with # 5042.
 abundant here and in clearings
 and open woods; full flower.

5045 *Dianthus armeria* L.

(2) In old pasture with # 5042
 Very abundant; full flower, and in all old
 broadedge pastures

5046 *Stironema ciliatum* (L.) Raf.

(5) In pasture (Castell's) where stone
 crumher stood, high up on slope in corn and
 wheat 3 years ago; full flower.

Juncus macrocarpus S.F. Gray Bull Run Mt., Va.
 in old pasture Fauquier Co.
 5047 (*Castellus*) June 12, 1938
 (1) rose stone number H.A. Allard
 stood: very abundant constituent. This
 field cultivated 2-3 years ago to corn and
 wheat, then abandoned.

5048 *Bromus commutatus* Schrad.
 (1) Very abundant in field ditto
 also with # 5047
 a common species here in old pasture.

5049 *Apocynum androsaemifolium* R. Br.
 (5) abundant, just in bloom in ditto
 old pasture with # 5047.

5050 *Cyperus stramineus* var. *gorgianus* (Harper) Torr.
 (1) In wet spot by roadside on Triassic ditto
 area near Antioch on road from
 Harpermarked to Antioch; abundant.
 (Ident. by T.J. Hermann)

5051 *Achillea millefolium* L.
 (1) Growing with # 5050 ditto
 in woods on roadside near Antioch.
 Full bloom: occasional here

5052 (blossoms deep red-purple)

(1) Fleshy
 (Black in color) Short Mt., south end,
 on low shale outcrops Massanutten Range
 well up slope: abundant June 14, 1938.
 here; holds tenaciously to rocks. H.A. Allard

5053 *Cladonia*
 (cut formed)
 on soil where *Cetraria islandica* ditto
 grows: rather abundant.

Cetraria islandica (L.) Ach. South end of Short Mt., Va.
 Massanutten Range.
 June 14, 1938
 5054 on Martinsburg H.A. Allard
 shales near road
 (1) here re bark car; abundant
 (Today Mr. H.W. Diehl and I may
 the main colony here).

5055 *Scrophularia* South end of Short Mt., Va.
 Massanutten Range
 (1) *leptocaulis* (Picknell) June 14, 1938
 on shales (Martinsburg) H.A. Allard
 near middle of mt. (went with W.W. Diehl)
 slope proper abundant here; passing. (Sherandoak Co.)

5056 *Pentstemon* *hollidus* Small.
 (1) Half way up main slope
 near # 5055; abundant; full ditto
 bloom: in large clumps.
 corolla pale reddish purple.

5057 *Cruciferae*: *Sisymbrium* *affinisimum*
 (6) (fl. small, yellow) (L.) Britton ditto
 on shales with # 5056; abundant; e
 passing. Leaves very narrow

5058 *Hebe* *blepharophylla* (L.) Raf. ditto
 (7) On shales with # 5056
 abundant; in large floriferous clumps;
 in full bloom: corolla blue; purple spotted.
 a prominent shale plant.

5059 *Draba ramosissima* A. DC.
 (2) Growing abundantly with # 5056 ditto
 half way up the south slope on Martinsburg
 shales; full bloom; dense bunches
 a characteristic shale plant.

5060 *Saxifraga spicata* (L.) Beaman. e ditto
 (2) on shales well up slope
 with # 5056; scattered; vigorous
 in spite of dry soils.

Lepidium virginicum South end of Short Mt., Va.
 on dry steep shales Shenandoah Co.
 Massanutten range.
 5061 slope: abundant; June 14, 1938
 (5) full bloom. H.A. Allard
 an abundant plant on these shales. e

5062 *Marrubium vulgare* L. ditto
 (1) On shales well up slope with # 5061
 very abundant: full bloom; in large clumps;
 a characteristic shale plant. e

5063 *Dianthus spicata* (L.) Beauv. ditto
 (2) On shales south slope. e

5064 *Crucifera: Frestua obtusa* Spreng. ditto
 (2) On shales near # 5061
 scattered. e

5065 *Dianthus spicata* (L.) Beauv. ditto
 (1) On shales well up steep slope
 with # 5061
 abundant in clumps and these large,
 vigorous. e

5066 *Bromus pinnatus* L. ditto
 (1) abundant well up slope on
 shales: beginning to chatter; a
 tall, handsome, drooping species, and
 prominent on lower shales near. e

5067 *Carex cephalophora* Muhl. ditto
 (3) On steep shales leading to
 main slope of Short Mt.; abundant
 in the open woods here.
 (Ident. by F. J. Hermann)

Carex cephalophora Muhl. South end of Short Mt., Va.
 well down slope Shenandoah Co.
 Massanutten range.
 5068 in shales June 14, 1938
 here often H.A. Allard. e
 (4) woods: abundant; shattering.
 (Ident. by F. J. Hermann)

5069 *Dianthus armeria* L. ditto
 (1) On shales near road
 - see *Cetraria* colony, beginning
 and here in park: abundant. full bloom

5070 *Carex cephalophora* Muhl. ditto
 (1) On shales with # 5069 e
 (Ident. by F. J. Hermann)

5071 *Anagallis arvensis* L. ditto
 (1) Primrose
 with # 5069
 abundant here in nearly level
 grassy area; full bloom;
 fl. scarlet. e

5072 *Antennaria islandica* ~~neo-dioica~~ ditto
 (2) On shales with *Cetraria islandica* e
 scattered. - *antennaria neo-dioica* Greene e

5073 *Antennaria neo-dioica* Greene ditto
 (1) On shales with *Cetraria islandica*
 abundant all over these shales of
 south end Short Mt. e

5074 *Carex cephalophora* Muhl. ditto
 (2) On shales near main slope
 in open stand of trees etc.
 (Ident. by F. J. Hermann)

Danthonia spicata (L.) Beauv. South end of Short Mt., Va.
Massanutten range,
Shenandoah Co.
5075 on shale well June 14, 1938
(21) of main slope. H.A. Allard.
abundant: very
vigorous clumps.

5076 *Monotropa hypopitys lanuginosa* (Michx.) Nutt. ditto
(1) on shale with *Cetraria islandica* Nutt.
at foot of Chestnut Oak
not common here.

5077 *Ellecebraceae* ditto
(1) on shale with *Cetraria islandica*
here abundant here.
Amphibia polygonoides Raf.

5078 *Bupleurium* *undifolium* (L.) Great Valley of Va.,
Shenandoah Co. ditto
(10) Proside near Near Woodstock, Va.
roadside: abundant here: June 14, 1938
full flower. H.A. Allard

5079 *Pentstemon* *laevigatus* Soland. Bull Run Mts. Va.
(12) Fl. white: a large colony Franquier Co.
just west of Thoroughfare Gap June 14, 1938
on flatter area in full flower; not common. H.A. Allard
Plants moist tall, very vigorous.

5080 *Tragopogon porrifolius* L. Great Valley of Va.
(8) very abundant: going to Shenandoah Co.
seed, but still some flowering. Near Woodstock, Va.
Flowers purple; very abundant by roadside.
between Strasburg and Mt. Jackson June 14, 1938
H.A. Allard

5081 *Tragopogon dubius* (L.) subsp. *major* (Jacq.) Vollinger.
(16) very abundant between Strasburg and ditto
Mt. Jackson: full flower; fl. yellow.

Aster virginicus (L.) var. *virginicus* Michx. South end of Short Mt., Va.
Massanutten range,
Near A. *laevis* col. Shenandoah Co.

5082 maybe a narrow June 19, 1938
leaved form. very H.A. Allard.
(1) abundant on shale barrens: this near roadway
where car was parked: only one in flower.
Found abundant here and elsewhere in Massanutten
but mainly on dry shales.

5083 *Draba ramosissima* (L.) Bear. ditto
(14) well up slope on shale barrens ditto
abundant: some flowering still;
but mostly in seed: fl. white.
Found only on shale areas here.

5084 *Auplexis platyneuron* (L.) Oakes. ditto
(1) on ledges at top (Clinton sand
stones and conglomerates) also
below on shales: abundant.

5085 *Potentilla monspeliensis* L. ditto
(1) on shales at foot here
red bud colonies are
only plant seen: fl. yellow.

5086 *Crataegus tomentosa* (L.) Muhl. ditto
Flowers stems, leaves, fruit pubescent.
on shales near foot of slope proper.
Scattered

5087 *Ruellia strepera* L. ditto
(3) on route 730 from Valley Pipe
near Short Mt. This by roadside at
neck on way to Short Mt.: abundant,
full flower: flowers large, shiny, blue.

5088 *Gaylussacia pentstemonifolia* var. *ovata* (L.) Post. ditto
(1) at ledges on Short Mt.: abundant.
see rocky talus begins
(ident. by F. J. Hermann)

- 5089 *Deschampsia flexuosa* (L.) Trin. South end of Short Mt., Va.
at foot of cliffs at top: Massanutten range,
abundant here: in full bloom: not on shales. Shenandoah Co.
June 19, 1938
below. at about 2400 ft. H.A. Allard.

- 5090 *Carex muhlenbergii* or *enervis* Boott. ditto
(4) Growing with # 5089
abundant: alt. about 2400 ft.
(Ident. by F. J. Hermann)

- 5091 *Bromus pungens* L. ditto
(4) well up slope on shales near 1800 ft alt.
abundant. e

- 5092 Graminae: *Festuca obtusa* Spreng. ditto
(1) well up on shales near # 5091:
(6) abundant.

- 5093 *Blephilia ilicata* (L.) Raf. ditto
(1) On shales well up slope
near # 5091; abundant; in full bloom;
very showy blue purple flowers in large clumps.
a typical shale plant here.

- 5094 *Brassica nigra* (L.) Koch. Great Valley, of Va.
(2) On route 730 off Shenandoah Co.
the Valley Pike to Short Mt., Va. south end.
June 19, 1938
Roadside near stream #4, Allard
in way, abundant; full bloom.
Fall 4-5 ft.

- 5095 *Cirsium pumilum* (Nutt.) Shreve. ditto
(6) *Carduus acanthoides* L.
Near road, stocks, by roadside. ditto
abundant; just opening its flanges;
only a few plants with blower heads;
pink purple; my first record.

- Cirsium pumilum* (Nutt.) Shreve. South end of Short Mt., Va.
on route 730 leading Shenandoah Co.
5096 east from June 19, 1938.
(1) Valley Pike H.A. Allard
just south of
M.Y. Japane, roadside in woods e
near short mt. south end. just in bloom;
fragrant: fl. purple.

- 5097 *Aralia hispida* Vent. ditto
(4) On top of cliffs of Short Mt.,
abundant here: in full bloom.
Some plants 54 inches tall.

- 5098 *Galium latifolium* Michx. ditto e
(2) On top of cliffs at 2600 ft.
Leaves dotted, but stems smooth, whereas
G. pilosum has dotted leaves, hairy stems.
abundant: just in bloom; fl. purple.

- 5099 *Deschampsia flexuosa* (L.) Trin. ditto
(2) On top of cliffs near # 5098:
full flower: spikelets purplish tan,
the usual color of this very beautiful, e
tenuose, delicate species
at 2600 ft.

- 5100 *Panicum boscii* var. *molle* (Vasey) H. & C. ditto
(4) var. *molle*? at foot of cliffs at
stems hairy. 2400 ft with # 5089
abundant here.

- 5101 *Pentstemon canescens* Small e ditto
(1) at top of cliffs near # 5097
full flower: abundant also
on shales below.

- 5102 *Cirsium canadense* L. ditto
(3) On shales on lower slope. e
abundant here on shales; some with
distinct red pods; others with green; and
not a matter of age.

*Crataegus tomentosa*² South end of Short Mt., Va.
 on shale near Massanutten Range
 5103 foot of main slope. Shenandoah Co.,
 scattered here. June 19, 1938
 H.A. Allard

5104 *Galium pilosum*
 (2) var. ~~formosissimum~~ *circuegens* Michx. ditto
 fl. white, stem glabrous edge of leaves ciliate,
 fruit mucinate-hispid; leaves not dotted,
 lustrous as in *pilosum*.
 On top of diff. at 2500 ft. full flower.

5105 *Silene lineata* Michx.
 (8) On route road #730, near, west Great Valley of Va.
 roadside shot in woods approaching Shenandoah Co.
 south end of Short Mt., June 19, 1938
 abundant here. (ident. by T. J. Hermann) H.A. Allard

5106 *Scrophularia leforella* Bicknell
 (1) Top of Short mountain - south end
 on high crest of ledges at 2600 ft.
 full flower here. on shale at foot
 of slope past flower ditto

5107 *Asclepias purpurascens* L.
 (1) Growing by roadside in woods
 near # 5105 in drier soil: full flower. ditto

5108 *Asclepias tuberosa* L.
 (2) By roadside on # 730 leading off ditto
 from the Valley Pike on the way to
 south end of Short Mt., Va.: abundant;
 full flower now. 5109

*Allium ampeloprasum*² Fork town
 First found by Dr. S. F. Blake York County, Va.
 There then collected by Howard T. Allard
 June 19, 1938 who revisited this area; abundant
 here; full flower a week earlier. very pungent
 purple heads of flowers; numerous basal bulbils.

Phlox patens L. Bull Run Mt., Va.
 at Riley's spring Franquier Co.
 at their old at Hartsell Gap.
 5110 cabin house. June 26, 1938
 (2) Full flower abundant. H.A. Allard

5111 *Chrysanthemum* ~~leucanthemum~~ *ditto*
 (4) var. *pinnatifidum* var. *pinnatifidum*
 very abundant in Castello's field
 near stone crumbar stand. full flower

5112 *Rudbeckia hirta* L. ditto
 (3) Growing in same field with
 # 5111: full flower; very abundant
 yellowing this field in places.

5113 *Juncus*
 (1) On thin soil at top of
 ridge at Castello's quarry ditto
 above his spring.

5114 *Theophrastus polypodioides* ditto
 (2) In woods beyond high
 mountain edge field od oak tree
Quercus saubii
Theophrastus hexagonifera (Michx.) C. Chr.

5115 *Poa compressa* L. ditto
 (1) In high brown edge field on
 slope beyond Riley's former cabin
 house (S.W.) abundant in thin
 scattered stands.

5116 *Hyssopus* ditto
 (1) Covering rocks and boulders in
 little cold pool leading from spring
 in woods below High Point (see photo)
 Temperature of water = 56° F.

Plants mainly pulled out of ground; plants sandy brown; plants mainly pulled out of ground.

Polystichum acrostichoides Bull. Run Mt., Va.
var. *schweinitzii* (Ch.) Tangier Co.
June 26, 1938
5117 In woods below High Point, west slope of cold spring with # 5116
H.A. Allard
south of Hopewell Gap
west slope.

5118 *Polystichum acrostichoides* (Ch.) Schaff. ditto
(2) Growing near # 5117
very abundant.

5119 Mass on big boulders covering them with a solid mat in woods from spring here # 5116 near.
abundant: dull olive green. ditto

5120 *Nepeta cataracta* L. ditto
(4) at foot of Castello's flagstone quarry west of his house on ridge: full bloom: very abundant here

5121 *Achillea millefolium* L. ditto
(4) Growing on top of quarry where # 5120 grows: abundant here: full bloom: (leaves mucronate-tipped)

5122 *Asplenium adnigrum* L. ditto
(1) *Mothotropa uniflora* L.
Rich woods just below High Point, west slope: full bloom

5123 Mass on steep slope with a bright, sun-dappled sating greenness of pure moss. ditto
(2)

Mass on rocks covering these, near spring near # 5119 Bull Run Mt., Va.
Tangier Co.
June 26, 1938
H.A. Allard.
5124 ditto

Chimaphila maculata (L.) Pursh. ditto
5125 Found near # 5124.
(2) abundant: full bloom: more abundant than *umbellata*

5126 *Quercus saepta* Schneider. ditto
(5) In S.W. corner of Irish brown sedge field beyond Castello's a young, fine tree. white caps of chestnut valves of red around. = *alba* x *montana* (Winters)

5127 *Agrostis perfoliata* (L.) Ehrh. on sand dunes
(2) *Habenaria* on dunes: abundant: at Provincetown, Cape Cod, Mass. July 1, 1938
no flowers, those being rarely produced. H.A. Allard
(Euphrasia, introduced)

5128 *Lathyrus maritimus* (L.) Bigel. ditto
(5) on sand dunes: full bloom: abundant: fl. purple.

5129 on dunes near # 5128. ditto
(1) not in flower: abundant.
= *Antrostaphylis uva-ursi* Spreng.

5130 *Linaria canadensis* (L.) Dumort. ditto
(1) abundant on sand dunes etc: full bloom.
(fl. purple)

Rufus hispidus A
On sand dunes; abundant; full
5131 bloom.
(2) On sand dunes at Provincetown, Cape Cod, Mass. July 1, 1938.

5132 *Calopogon pulchellus*
(1) Low, dwarf spat on
Cape Cod sands at Provincetown,
abundant; full bloom.
- *Limodorum tuberosum* L.

5133 *Aralia hispida* Vent.
(1) abundant on dunes at
Provincetown; also everywhere by
roadsides in Maine. One flower: full
bloom. See # 5097

5134 *Artemisia stelleriana* Bess.
(1) abundant on dunes etc. passing.
escape from gardens (Asia)

5135 Gramineae
(2) In bog: abundant.
On shore of
Malden Pond,
Concord, Mass.
July 1, 1938.
Glyceria canadensis (Michx.) Trin.
H.A. Allard.

5136 *Carex lasiocarpa* Wahl.
(2) Growing with # 5135
Ident. by T. J. Hermann, Assoc. Botanist, Dir.
of Plant Exploration and Introduction July 30, 1938.

5137 *Hieracium aurantiacum* L.
(4) In fields, roadsides
etc. in northern Maine.
July 3, 1938.
H.A. Allard.
(Orange fl.) Very showy.
everywhere in north, Canada, New Brunswick, Maine, N.Y. etc. full bloom

Hieracium patense Tausch. Desert Isle, Maine.
abundant and intermingling July 3, 1938.
with # 5137: somewhat
taller; less stoloniferous.
5138 fl.: deep yellow. H.A. Allard

(4) Less wide spread than # 5137, but
abundant in southern Maine; full
bloom.

5139 Mt. Desert Isle; old
(1) field; full bloom.
abundant.
- *Pinanthus crista-galli* L.

5140 Gramineae
(3) abundant in Central
Maine in places by
roadside: spikes purple; showy.
- *Calamagrostis canadensis* (Michx.) Beauv.

5141 *Junonia trifida* L.
(2) Near top of tree trunk
line: abundant on knife edge.
(Ident. by Hermann)

5142 *Diapensia lapponica* L.
(1) Near top of tree trunk
line: abundant; dense clusters.
clustered; fl. single; 3 parted below calyx.

5143 *Vaccinium vitis-idea* L.
(1) var. *minus* Lodd.
abundant; full bloom above tree trunk line.
corolla deep pink.

5144 *Ledum guenlandicum* Gled.
(2) fl. white; a very showy
shrub above tree trunk line; full
bloom; enduring.

Vaccinium uliginosum L. Top of Mt. Katahdin,
Maine, above
timber line.
5145 In bloom; abundant
low shrub here

5146 Gramineae. Ditto
" silvery brown plants and large
above timber line; abundant
Hierobloa alpina (Coville) Roem. & Schult.

5147 *Carex concolor* R. Br. Ditto
" High up 1st peak of Katahdin
on trail from Baxter Camp; abundant
above timber line. (Ident. by Hermann)

5148 *Carex humnrescens* (Pers.) Poir. Ditto
" Growing above timber line.
(Ident. by Hermann)

5149 *Arenaria groenlandica* (Retz.) Steud. Ditto
" above timber land on bleak
slopes; abundant; full bloom
fl: white.

5150 *Linnaea borealis* americana Forst. f. Ditto
" High up Katahdin on
plateau; full bloom. grass
around Camp Baxter also red
on low slopes around.

5151 *Linnaea borealis* very showy, delicate, pinkish
very abundant in bloom.
Carex acutata Sw. on plateau high up trail above
timber line; abundant below
camp. High up Katahdin above timber line,
(Ident. by Hermann)

Cladonia squamosa (Scop.) Hoffm. On Mt. Katahdin,
Maine.
July 5, 1938
H. A. Allard.

5152 On rocks in
ravine at falls
above Camp Baxter
on Baxter camp trail.

5153 Lichens Ditto
" on rocks near # 5152

5154 Lichens *Cladonia squamosa* (Scop.) Hoffm. Ditto
" Near # 5152 on stump
logs etc. 5154b = *C. cristatella* f. *vestita* Tuck.
5154A = *C. squamosa* (Scop.) Hoffm. 5154C = *C. squamosa* (Scop.) Hoffm.

5155 *Cladonia* mixed
" one = *C. rangiferina* ditto
one a brown, long, pointed type
Near # 5154 = *C. gracilis* var. *elongata*
f. *squamosa*
5155a = *C. rangiferina* f. *squamosa*

5156 *Cladonia* *C. gracilis* var. *elongata* f. *squamosa* Ditto
" as # 5155

5156a In same locality
C. rangiferina (L.) Ach.

5157 Lichens - *Cladonia squamosa* (Scop.) Hoffm. Ditto
" Near # 5152;
on soil on bank.

5158 *Cladonia alpestris* (L.) Rahn. Ditto
" on soil on rocks near
falls above Camp Baxter.
abundant; forms a knobby, rising
very pretty; gray.

~ *C. gracilis* var. *dilitata* W. Katakhdin, Maine,
Cladonia s. *squamulosa* Schaer. Sunday, Baxter Trail
 5159e = 5159f on rotten logs 5159 July 5/1938
 5159 at bridge at falls 5159 H. A. Allard
 fore Camp Baxter 5159e = 5159f, and *C. conigeracea* f. *ceratodes*
 " 5159a same as 5159 5159b.
 5159b = *C. gracilis* var. *dilitata* (Hoffm.) Vain.
 (and *C. univiridis* f. *ceratodes* (Hoffm.) Vain.)

5160 *Lylofodius daratum* L. ditto

Grass near # 5159
 5159h = *C. squamulosa* (Scop.) Hoffm. and *C. conigeracea* f. *ceratodes*
 and *C. gracilis* var. *dilitata* (Hoffm.) Vain.
 5159j = 5159k = *C. conigeracea* f. *ceratodes* (Hoffm.) Vain.
 5159l = *Jamesonella autumnalis* (Dill.) Hoffm.
 5161 *Lylofodius annuatum* L. ditto

" Near # 5159

5162 *Linnaea borealis* americana Forbes.
 (2) Thin flower. full bloom: very fragrant; ditto
 milk.
 These found at Mud Pond below camp Baxter.
 Very abundant at all elevations. to near top
 of Katakhdin.

5163 *Cerastium* ? *alsine graminea* (L.) Britton ditto
 Growing on shore of Mud Pond below
 camp Baxter: full bloom.

5164 *Arnica mollis* var. *petiolaris* Fernald
 (2) yellow flowered Composite ditto
 (Arnica)
 In damp boggy ground in thickets at
 Mud Pond: full bloom

5165 *Oxalis acetosella* L. ditto
 (1) At Camp Baxter at foot of
 Mt. Katakhdin: abundant: full bloom:
 fl. white.

5166c = *C. gracilis* var. *dilitata* (Hoffm.) Vain.
 5166d = undeterminable,
 " "
 5166e = " "
 5167 = *Ptilidium ciliare* (L.) Nees.
 5167a = " "
 5167b = sterile - doubtful. Some sent to Berry, C.C.

5167e, *Cladonia rangiferina* (L.) Web.

5167f. " "

5167g. " "

5168 *Ptilidium ciliare* (L.) Nees.

5168a *Bazzania ciliata* (L.) Nees.

5168b. " "

5168c. " "

5168d. " "

5168e *Cladonia rangiferina* (L.) Web.

5168f. " "

5168g. " "

5168h. " "

5168i. " "

5168j. *Ptilidium ciliare* (L.) Nees.

5168k. *Bazzania trilobata* (L.) S. F. Gray
 + *Oethocaulis attenuatus* (L.) Auth.?

5168L *Bazzania trilobata* (L.) S. F. Gray.
 + *Ptilidium ciliare* (L.) Nees.

5168N and 5168O = same as 5168L.

Clad - *C. gracilis* var. *dilatata* M. Katahdin Maine

59 f. = *C. rangiferina* (L.) Reb. Mt. Katahdin, Maine,
Cladonia July 5, 1938,

H.G. Allard

5166

on rocks at very top near
" orange plaque. *Sphaerophorus fragilis* (L.) Pers.

66a = *Termonia setiformis* (Ehrh.) M.A. Howe

Mixture of *Blasium setiformis* (Ehrh.) L.
Lynon. ditto

5167

Cladonia

" *Cetraria islandica*

Mass
all from rocks at top near # 5166
at 5266 ft

5168

Mixture

"

Masses

Lichens

Hepatic

Bryopter.

From cliffs at
falls above Camp

ditto

5169

"

Hepatic = *Diplophyllum tapifolium* (Vahlent.) Dum.

Masses

From cliffs near # 5168

5169a = *Bryozonia trilobata* (L.) S.F. Gray.

5170

"

Masses *Diplophyllum tapifolium* (Vahlent.) Dum.

Lichens 5170c = *Cladonia rangiferina* (L.) Reb.

Hepatic 5170d = *Sphaerolobus minutus* (L.) S.F. Gray.

with # 5168 + *Bryozonia trilobata* (L.) S.F. Gray.

5171

"

Masses etc.

Growing near # 5168

ditto

5172

"

Masses *Bryozonia trilobata* (L.) S.F. Gray ditto

Hepatic

Growing with # 5168.

Phlegopteris polypodioides on Mt. Katahdin, Maine
Camp Baxter trail.
July 5, 1938
H.A. Allard.

5173 at falls above
Camp Baxter.

" = Dryopteris phlegopteris (L.) C. Chr.

5174 Bryum ?

" Growing with # 5173

5175 Baygonia trilobata (L.) S.F. Gray.

" Growing at falls above
Camp Baxter
in mosses
Hepaticae

5176 Senecio robbinsii Oakes.

(5) In damp boggy soil in thicket
at Mud Pond below Camp Baxter.
occasional: full bloom.

5177 Carex peckii E.C. Howe.

" Growing with # 5176
(ident. by Hermann)

5178 Silene latifolia (Mill.) Britton
at Camp Baxter.

Beautifully veined calyx.
- S. cucubalus Wibel.

5179 Carex humilis (Pers.) Poir.

" On cliff shelf at falls
above Camp Baxter.
(ident. by Hermann.)

Gramineae.

Mt. Katahdin, Maine,
July 5, 1938
H.A. Allard

5180 at Camp Baxter
in woods.

Danthonia spicata (L.) Beauv.

5181 Carex crumfardii Fern.

" Growing at Mud Pond below
Camp Baxter
(ident. by Hermann)

5182 Carex crumfardii Fern.

" Growing near # 5181
(ident. by Hermann)

5183 Carex scabrata Schreb.

" with # 5181
(ident. by Hermann)

5184 Carex crumfardii Fern.

" at Mud Pond below
Camp Baxter
(ident. by Hermann)

5185 ~~Cyperus~~ ^{Sagittaria} atrocinerea Fern.

" Near # 5184
(ident. by Hermann)

5186 Carex scabrata Schreb.

" Near # 5184.
(ident. by Hermann.)

Carex gynandra Schum. Mt. Katahdin, Maine,
at Mud Pond July 5, 1938
5187 below Camp Baxter. H.A. Allard.
" (Ident. by Hermann)

5188 *Carex projecta* Mack.
" with # 5187 ditto
(Ident. by Hermann.)

5189 *Cyferus* ^{*scirpus*} *atrovinctus* Fern.
" Growing with # 5187 ditto
(Ident. by Hermann.)

5190 *Chironomus hispidus* (L.) T.P.S.
" at Mud Pond - ditto
on soil in woods -
prostrate - small leaves
lustrate Not size

5191 Thick, grassy green
abundant.
" Mosses
Hepaticae
Lichens
at diff. at falls above Camp Baxter. ditto

5192 *Solidago cutleri* Fernald
" at highest point on Mt. Katahdin,
Maine at 5200 ft. alt. ditto
just coming into flower
above timber line.

5193 *Arenaria groenlandica* (Roth.) Spreng.
" Everywhere above timber line at ditto
top of Mt. full bloom: dense clusters.
fl. whitish: completely covers the ground
with flowers in places: leaves linear

5191 = *Bazzania trilobata* (L.) S.F. Gray.
5191a = *Ptilidium ciliare* (L.) Nees.
5191b = " " "
5191c = *Cladonia sylvatica* (L.) Hoffm. (slender form)
5191d = " " " "

5202 = " *gracilis* var. *elongata* (Jacq.) E. Fries.
5202b = *Ptilidium ciliare* (L.) Nees.
5203b = *Cladonia amaro-craea* f. *oxyclada* Vain.
and f. *fuscatiformis* Vain.

5204 = " *gracilis* var. *elongata* (Jacq.) Fries.
5204a = *Temnoma setiforme* (Ehrh.) M.A. Howe (mostly)
5204b = " plus *Cladonia squamosa* (Scop.) Hoffm.
5204c = (Too little to test.)
5204d = *Ptilidium ciliare* (L.) Nees.

5210a = *Cladonia amaro-craea* (Flörke) Schaer.

5210c = *Temnoma setiforme* (Ehrh.) M.A. Howe.

5210d = *Cladonia uncialis* (L.) Web.

5210e = " *squamosa* (Scop.) Hoffm.

5211a = " *rangiferina* (L.) Web.

5211b = " *amaro-craea* (Flörke) Schaer.

5211c = { " *alpestris* (L.) Rabenh. (right),
" *rangiferina* (L.) Web. (left).

5211d = " *alpestris* (L.) Rabenh.

Carex

5187

||

5188

||

5189

||

5190

||

5191

||

5192

||

5193

||

top
fl. in
with stem

Vaccinium
uliginosum L.

5194

||

5195 Salix phylicifolia
at top of rocks
above timber line
low.

5196

||

Near # 5195

Ericaceae
shrub. Vitis idaea var. opifera L.

5197

||

Ericaceae
Near # 5195
= Vaccinium uliginosum L.

5198 Lycopodium selago L.

||

Near # 5195

5199 Carex concinna R. Br.

||

with # 5195
(ident. by Hermann)

5200 Lettaria islandica

||

with 5195 - abundant.
5200 a = Cladonia rangiferina (L.) reb.

Top of Mt. Katahdin,
Maine, at 5266 ft
July 6, 1938
H.G. Allard.

Cladonia ²

Top of Mt. Katahdin, Maine

July 6, 1938

H.A. Allard

at 5266 ft

- 5201 on rocks etc
at extreme top
above timber line.

= *Cladonia amaurocraea* (Floerke) Schaer
f. *oxyclada* Vain.

5202 *Cladonia*

- || moss
with # 5201

ditto

5203 Lichens.

- || One yellowish green - foliose -
very pretty
Near # 5201

ditto

5204

- || Mosses
Lichens
Near # 5201

ditto

5205 *Cetraria islandica*

- || Near # 5201

ditto

5205a = *Cladonia amaurocraea* (Floerke) Schaer.

5206 *Cladonia rangiferina* (L.) Web. ditto

- || Near # 5201

5207

- || *Cetraria islandica* (L.) Ach.

Near # 5201

5207a = *Cladonia rangiferina* (L.) Web.
5207b = " *amaurocraea* (Floerke) Schaer.

ditto

Cladonia rangiferina (L.) Web. Top of Mt. Katahdin, Maine

July 6, 1938

H.A. Allard

5208

- || on soil at
very top above timber line.
abundant everywhere. e

5209

Cladonia rangiferina (L.) Web. ditto

|| mostly

5209b = *Cladonia amaurocraea* (Floerke) Schaer.
5209c = *Phylidium ciliare* (L.) Nees.

5210 Moss

- || Lichen like # 5203

ditto

5211 Mostly *Cetraria islandica* (L.) Ach.

- || some *Cladonia rangiferina*
" " *alphestis*. e

(intermingled)

ditto

5212

- || Gramineae
Poa lapa Macarke.
In rock crevices. e

ditto

5213 *Vaccinium vitis-idea* *vitis-idea* var. *minima* Lodd.

- || (Mt. Katahdin); fl. deep pink.
In full bloom at top. e
Low shrub.

ditto

5214

- || *Carex brunnescens* (Pers.) Poir. ditto
near # 5213. (ident. by Hermann)

Carex humilis (Pers.) Top of Mt. Katahdin Maine,
or July 6, 1938

- 5215 on top of
Cairn and
hump plaque etc. Ident by Hermann. e

5216 sphagnum

- 11 at Gossop's spring on
plateau just below top in
boggy ground.

5217 *Carex canfordii* Tuckerm. Mt. Katahdin Maine

- 11 also *juncus macer* at Camp Baxter at foot.
S.F. Gray July 8, 1938 e
at camp site (Ident by Hermann) H.A. Allard

5218

- Carex intumescens* Rudge,
var. *spinaldis* Bailey ditto
at camp site (Ident by Hermann) e

5219

- Poa palustris* L
Gramineae ditto
at camp site e

5220

- Gramineae *Agrostis tenuis* Sibth. ditto
at camp site e
five purple panicles, soft, lax, showy.

5221

- Galium tectorum* L. Moose head Lake, Maine
12/1 bl. white. July 8, 1938 e
H.A. Allard
(By roadside
near Greenville Maine.)

Campanula rotundifolia L. Weymouth Dam, Maine

- 5222 on grassy bank of dam
earth mounds.
11 very beautiful, deep blue, showy;
fully bloomed
var. *intercedens* (Writasek) Farw e

5223

- Matricaria suarcolens*
matricarioides (Less.) Porter. ditto
11 Near # 5222 e
(rayless)
Lost or left my fine digging tool

5224

- Aster macrophyllus* L. Mt. Washington
12/1 Pinkham Notch,
July 11, 1938
at Dolly Co. camp site H.A. Allard.
(abundant, just coming into bloom) e
dark blue.

5225

- Juncus greenii* Oakes et Tuckerm. ditto
11 at camp site (Ident by Hermann) e

5226

- Hieracium aurantiacum* L. July 10, 1938
11 at Norton Lake, N.H. e

5227

- My roadside.
Very abundant used in all fields; full
blown
Cladonia pleurota (Pleurobe) Schaer.
11 Mt. Washington, N.H.
In Truckerman's Ravine. July 13, 1938
(on soil) H.A. Allard.

5228

- Cladonia squamosa* (Wulf.) Hoffm. ditto
11/28 a =
5228 with # 5227 " " "

Hierochloa odorata (L.) B. M. Washington, N.H.
Tuckermans Ravine,
Pittsboro Notch trail
July 13, 1938.
H.G. Allard.
5229 In Tuckermans
Ravine
on slopes. e
" a very beautiful grass. e

5230 *Juncus trifidus* L. ditto
" near # 5229 e
(ident. by Hermann) e

5231 *Deschampsia flexuosa* (L.) Trin. ditto
" Gramineae. e
with # 5229
very pretty delicate panicles. e

5232 *Carex humnensis* (Pers.) Poir. (bade form) ditto
" near # 5229 e
(ident. by Mrs. Hermann) e

5233 *Arenaria groenlandica* (Retz.) Shreng. ditto
" In Ravine on slopes
very abundant: full bloom; showy. e

5234 *Carex concolor* R. Br. ditto
" In ravine. (ident. by Hermann) e

5235 *Exim perbie* Pursh. ditto
31 *Potentilla*
Very showy: full bloom
on ledges: abundant.
appearance of a buttercup. e

Dracopis mollis Hook. M. Washington, N.H.
Tuckermans Ravine.
on ledges etc. July 13, 1938
H.G. Allard.
5236 full bloom. e
" showy. Not
abundant: in clumps. e
14)

5237 *Carex humnensis* (Pers.) Poir. ditto
" In ravine ident. by Hermann. e

5238 Gramineae ditto
" In ravine e
Poa matensis L.

5239 *Phleum alpinum* L. ditto
" In ravine. e
full bloom.

5240 *Carex humnensis* (Pers.) Poir. ditto
" In ravine (ident. by Hermann) e

5241 *Lycopodium barriiflora* (Ehrh.) Boer. ditto
" *Cyperus*
var. *melanocarpus* (Muhl.) Link.
above Tuckermans Ravine. e
(ident. by Hermann) e

5242 *Carex leptomeris* Fern. ditto
" above Tuckermans Ravine.
(ident. by Hermann)

Carex canescens L.
var. *disjuncta* Fern.
5243 Above Tuckerman's Ravine. H.A. Allard
(Ident. by Hermann)

5244 *Arenaria groenlandica* (Retz.) Speng. ditto
" In Tuckerman's Ravine.

5245 *Juncus trifidus* L. ditto
" In Tuckerman's Ravine
(Ident. by Hermann)

5246 Gramineae ditto
" In Tuckerman's Ravine
Deschampsia flexuosa (L.) Trin.

5247 *Saxifraga floerkeana* ditto
" In Tuckerman's Ravine
Saxifraga caespitosa L. var. *callosa* Bigel.
(Ident. by Hermann)

5248 *Carex humilis* (Pers.) Poir. ditto
" In Tuckerman's Ravine

5249 *Thimanthus elongifolius* Castilleja septentrionalis Lindl. ditto
" yellowish green flowers:
narrow leaves: not shiny.

Epilobium alpinum L. 197, Washington, N.H.
5250 On Tuckerman's Ravine trail
July 13, 1938
H.A. Allard.

(2) small hilar flowers;
long slender pods:
leaves opposite, nearly entire 
fl. small

5251 *Rubus triflorus* Richards. ditto
" Trailing: In Tuckerman's ravine.

5252 *Veronica alpinum* L. ditto
" var. *maritima* C.P.S.
" *V. noronhaiensis* R.P.S.

5253 Orchidaceae ditto
" High up side of Tuckerman's
Ravine: bl. white: full bloom
Habenaria dilatata (Pursh) Gray

5254 Gramineae ditto
" at Tuf. among rocks near
Summit House
Poa glauca Vahl.

5255 moss ditto
" Lichen
near # 5254
on rocks.

5256 *Carex canescens* L. var. *disjuncta* Fern. ditto
" Shore of Hermit Lake
about 3800 ft. (Ident. by Hermann)

Gramineae.

Mt. Washington, N.H.

Trickerman's Ravine.

July 13, 1938.

H.G. Allard

5257

Trickerman's
In Ravine

||

Calamagrostis canadensis (Michx.) Beauv.

e

5258

Carex lunifolia (Pers.) Poir. ditto

||

In Trickerman's Ravine

e

5259

Carex panzeriana Michx.

ditto

||

very abundant on shore of
Hermit Lake at 3800 ft +.

(Ident. by Hermann)

e

5260

Gramineae - *Calamagrostis canadensis* (Michx.) Beauv.

ditto

||

with # 5259

e

5261

Carex panzeriana Michx.

ditto

||

At Hermit Lake in wet bog
very beautiful with bright green perigynia
and brown scales contrasting
spikes drooping (Ident. by Hermann)

e

5262

Juncus filiformis L.

ditto

||

at Hermit Lake.

(Ident. by Hermann)

e

5263

Cyperus atrocinctus Fern.

ditto

||

on shore of Hermit Lake.

(Ident. by Hermann)

e

Eleocharis

Mt. Washington, N.H.

Trickerman's Ravine.

July 13, 1938

H.G. Allard

5264

In Ravine

Dense tufts

Stems very

Scirpus caespitosus L. var. *callosus* Bigelow.

e

(Ident. by Dr. Hermann)

5265

Houstonia caerulea Steud. dittovar. *foenanthium* (L.) Steud.

||

In Trickerman's Ravine.

very abundant; full bloom;

corolla pure white in dense

clusters

e

5266

Cladonia

Cannon Ball Mt.

||

On top at 4100 ft. very dry on aerial
trunk at east of 95 cents, high over
forests of fir mostly; very dwarfed at
top July 15, 1938

H.G. Allard.

5267

5266a = *Cladonia squamosa* (Thoenes) Schaer.

||

Polygonum persicaria

around quarry dam soil above

Castello's house at Haverhill Gap.

Common - full bloom July 24, 1938

Persicaria mitis Gilg. H.G. Allard

5268

Oxalis europaea forma *cymosa* (Small.) Wieg.

||

Near # 5267

abundant; full bloom

e

5269

Galium triflorum Michx.

||

Thicket at Castello's quarry above.

abundant; full bloom.

ditto

e

5270

Chrysopsis virgata L.

||

abundant; full bloom

with # 5269; fl. rose pink.

Common in thickets.

ditto

e

Pyrenanthes incanum Bull Run Mt., Va.
 In thickets at Castello's
 quarry above his house:
 5271 abundant: full bloom
 (1) *Roellia pyrenanthesoides* (Lamour.) Knutze
 H.A. Allard
 Frazier Co

5272 *Solanum carolinense* L. ditto
 (1) at above quarry: abundant: full bloom

5273 *Amelanchier canadensis* (L.) Mill. ditto
 (1) same locality with # 5271
 abundant: full bloom

5274 *Galium circaeifolium* Michx. ditto
 (1) same locality with # 5271
 abundant in woods: passing

5275 *Acalypha virginica* Pursh. A. Gray. ditto
 (1) at above quarry: a common weed;
 often red throughout in autumn

5276 *Geranium canadense* Jacq. ditto
 (1) at above quarry: abundant

5277 *Oxalis europaea* forma *gymna* (Small) Wieg. ditto
 (1) at above quarry:
 abundant: full bloom

Amelanchier canadensis (L.) Mill. Bull Run Mt., Va.
 at Castello's quarry above his house:
 5278 abundant in woods etc. H.A. Allard
 (1) Frazier Co

5279 *Sanicula canadensis* L. ditto
 (1) Near # 5278.
 abundant in woods etc.

5280 *Polygonum hydropiper* (L.) Pers. ditto
 (1) Same place near # 5278.
 abundant: full bloom
 long; drooping racemes, whitish: achenes full.

5281 *Setaria lutescens* (Weig.) Hubb. ditto
 (1) at above quarry: on
 abundant grass lawn.

5282 *Aralia racemosa* L. ditto
 (1) Large serrate, ovate leaves.
 Inflorescence umbellate.
 In thickets at above quarry.

5283 *Bidens bipinnata* L. ditto
 (1) at above quarry: abundant:
 full bloom on ledges in open etc.

5284 *Meibomia nudiflora* DC. ditto
 (2) *Desmodium* woods: near slope below High Point.
 Very abundant in woods: full bloom: a
 conspicuous feature of the country with Hog Penit.

Sericocarpus antiochiensis Bull. Rm Mt., Va.
 woods next slopes below Hoperell Gap -
 High Point. July 24, 1938

5285 abundant, full bloom H.A. Allard
 (11) (Fauquier Co.)

e

5286 *Monotropa hypopitys*

ditto

(11) near # 5285 *hypopitys lanuginosa* (Michx.) Nutt.
 full bloom.

e

5287 *Impatiens anglica villosa* (Nutt.) B.S.P.

(31) open woods growing up from clearing, next slope below High Point.
 smooth; fl. white like wild carrot; tall.

ditto

e

5288 *Crataegus sagittalis* L

ditto

(11) old brown sedge field near Hoperell - Broad Run Station highway
 abundant in some dry areas; lamm. passing.

e

5289 *Hypericum denticulatum* Lam.

(11) in old field near *Prunus rigida*
 forma *globosa* grows.
 full bloom: abundant.

ditto

e

5290 *Prunella vulgaris* L

(21) in old field
 last year in wheat; very abundant
 now; full bloom. abundant in
 deciduous woods, cut roads etc.

ditto

e

5291 *Daucus carota* L

(11) with red flowers; occasionally
 seen in white fields, in field
 with # 5290.

ditto

e

Rudbeckia hirta L

Bull Rm Mt., Va.
 July 24, 1938

5292 in field at Hoperell Gap
 near *Prunus rigida* H.A. Allard
 forma *globosa* very
 abundant in old fields; full bloom

e

5293 *Lactuca canadensis* L

ditto

(11) old field near # 5292.
 abundant; full bloom

e

5294 *Paspalum pubescens* Muhl.

ditto

(11) in old field near # 5292

e

5295 *Panicum sphaerocarpon* Ell.

ditto

(11) near # 5292

e

5296 *Oxalis corniculata* L

ditto

(11) with # 5292

fl. yellow; abundant in old brown sedge
 field here.

e

5297 *Polygala verticillata* L

(11) in same old field with # 5292;
 full bloom

ditto

e

5298 *Pastinaca sativa* L.

(21) Edge of thickets in old field
 just beyond Castellon; large colony
 here; full bloom; fl. yellow.

ditto

e

Cornus stolonifera Mill. Bull Run Mt., Va.
 In fence run through Mill Hopperell Gap
 below Castello's. July 24, 1938
 H.A. Allard

5299

(1)

Frangier to

5300 *Saxifraga variifolia* Runtze ditto
 (2) Near # 5299: Tree largest in
 Bull Run Mt., i.e. 8 ft in circumference at
 breast height. Very beautiful, shapely tree.

5301 *Plantago aristata* Michx.

(2) abundant in patch way made by
 trunks travelling to a road cut in dense
 browse edge pasture near old Riley cabin. Here
 did not extend on either side of tracks but
 (2) had killed sedge, but very abundant here.

5302

(5) *Mentha spicata* L.

In wet spot by brook below Castello's
 field here stone chamber was situated - on
 lane leading to Riley's old cabin: full bloom

5303 *Carex hirsuta* Wahl.

(1)

In same wet spot with # 5302
 (ident. by F. J. Hermann)

5304 *Aporosa cannabinum* L.

(3) old pasture (browse edge) beyond
 Castello's at Hopperell Gap.
 abundant: full bloom

5305 *Oenothera biennis* L.

(2) Old field here small cedars
 are abundant beyond Castello's, near
 line *Pinus rigida* in field.
 very abundant: full bloom

Sida spinosa L.

Bull Run Mt., Va.

July 24, 1938

Hopperell Gap

H.A. Allard

5306

In old browse edge
 pasture here many far beyond Castello's
 (2) small cedars grow near Riley's
 near ravine old ~~brush~~ fence
 old cabin

5307 *Chondrilla juncea* L.

(5)

Growing in waste land in
 pasture below Castello's near # 5299.
 My first record for Bull Run Mt.
 full bloom. ~~near two plants only.~~
 fl. yellow.

5308 *Sabatia solidago juncea* Ait.

(3)

In old browse edge field near
 # 5306: scattered: just coming
 well into bloom

5309 *Sabatia juncea angularis* (L.) P.

(2)

In old browse edge field here
Pinus rigida var. *globosa* grows.
 abundant here: full bloom: very deep rose,
 pink, shiny: very fragrant: buds more like till
 expansion of corolla.

5310

Aerates viridiflora (Raf.) Elton

(2)

In old field with # 5309: scattered
 on the high brown sedge fields etc: general:
 full bloom

5311 *Pyramanthemum* ~~*viridiflora*~~ (L.) Runtze

(2)

In old field beyond Castello's -
 in browse edge. Under west slope
 below High Point - deciduous
 common in old browse edge fields.

5312 *Aralia racemosa* L.

(1)

In thicket at Castello's quarry:
 full bloom.

~~Thlasia perfoliata~~ Bull Run Mt., Va.
 Hedera ~~hirsuta~~ (L.) Pers. Hagerell Gap,
 in thickets around July 24, 1938
 5313 *Castilleja grandiflora* (L.) A. Allard
 (2) very abundant; full bloom. Franquiere Co.
 Under of hemlock, long.

5314 *Girardinia pumilum* (Walt.) Shreve. ditto
 (3) In old field beyond Castellaz near
 old rail yard (1937) wheat field now
 covered with wild carrot.
 passing bloom: scattered.

5315 *Collinsia canadensis* L. Bull Run Mt., Va.
 (1) In damp rich woods where July 31, 1938
 we crossed from High Point trail HA. Allard
 to ridge. *Castilleja grandiflora* is on west slope
 locally abundant - 3 ft. just coming into flower here. Franquiere Co.
 5315 = *Lupinus liliifolius* (L.) L.C. Rich.
 5316 *Panicum usherii* Pers.

(4) On top of High Point cliffs in this
 soil in exposed places: abundant. ditto

5317 *Carex vinosa* Muhl.
 (2) In woods near foot of High Point cliffs
 west slope: only specimens seen: few
 carices at this season.
 (Ident. by F. J. Hermann Aug. 3, 1938.)

5318 *Agrimonia rostellata* Walt.
 (2) In rocky woods just below High Point, west slope: scattered;
 full bloom.
 (fl. yellow) ditto

5319 *Boehmeria cylindrica* (L.) Sw.
 (3) In swampy, wet woods below High Point, west slope: abundant;
 full bloom. ditto

Hesperaria clausellata (Michx.) Bull Run Mt., Va.
 Franquiere Co.
 In mass and July 31, 1938
 5320 *Sphagnum* in HA. Allard
 swampy woods by near Hagerell Gap and
 (1) Spring below High Point, west slope: full bloom; local; not abundant. High Point.

5321 *Lactuca canadensis* L. ditto
 (2) Old field, damp soil just west of
 Hagerell to Broad Run Sta. highway
 nearly opposite High Point: abundant;
 full bloom.
 (fl. yellow)

5322 *Salix sericea* Marsh ditto
 (4) Along brook in wet ground
 which flows from Big Rock water tower
 across Hagerell to Broad Run station
 highway - nearly opposite High Point.

5323 *Senecio sibiricus* Muhl.
 (4) *Scleria paniculata* Muhl.
 In old pasture near # 5322.
 abundant here. ditto

5324 *Cyperus ovularis* (Michx.) Torr. ditto
 (3) Growing with # 5323
 scattered here. (Ident. by F. J. Hermann)

5325 *Pycnanthemum flexuosum* (Walt.) Rydberg ditto
 (3) In old pasture near # 5323.
 abundant here; full bloom. ditto

5326 *Sabbatia angularis* (L.) Pursh. ditto
 (1) Old horse-drawn field across from
 High Point and just west of Hagerell to Broad Run
 station highway.
 (near # 5323) full bloom; showy;
 locally abundant; very fragrant.

Hemicranium anceps Michx. Bull Run Mt., Va
 Gramineae. Fannin Co. July 31, 1938
 In old pasture damp soil near old cabin across
 5327 H. A. Allard.
 Hesperell to Broad Run Station highway;
 abundant; forms large patches, including other species.
 full bloom.

5328 *Morinda fistulosa* L. ditto
 (8) In damp spot across same
 road way above and near
 # 5327. Large colonies here: full bloom.

5329 *Asclepias purpurascens* L. ditto
 In small across Hesperell to
 Broad Run Station highway near old
 (3) black walnut tree: full bloom
 common. 1

5330 *Agrimonia hariflora* Nutt. Soland ditto
 (2) In low ground near old cabin
 just west of black walnut tree across
 Hesperell to Broad Run Station highway
 very abundant here: just coming into bloom.
 (head high; bl. yellow).

5331 *Setaria lutescens* (Weig.) Nutt. ditto
 (4) In old field near cabin and large
 black walnut trees (near dug up)
 across Hesperell to Broad Run Station highway
 south of Hesperell Gap: scattered.

5332 *Cyperus strigosus* L. ditto
 (1) Small near # 5329
 along brook at black walnut tree
 above. (Ident. by F. J. Hermann)

5333 *Sagittaria pubescens* Muhl. ditto
 (1) No flowering, stolonous.
 In small with # 5332.
 Not abundant.

Minutulus ringens L. Bull Run Mt., Va
 Fannin Co. July 31, 1938
 In small with # 5333: full bloom.
 5334 H. A. Allard.
 (2)

5335 *Helianthus tripartitus* L. ditto
 (1) ~~Silphium~~
 Growing in old pasture,
 damp ground just east of Hesperell to
 Broad Run Station highway and
 near *Pinus rigida* forma *globosa* Michx. mine.

5336 *Cassia manlandica* L. (2) ditto
 In low rain near # 5335.
 full bloom: showy: abundant.

5337 *Ipomoea pandurata* (L.) Meyer. ditto
 (1) In old unweeded pasture above
Pinus rigida forma *globosa* Michx.
 full bloom: abundant.
 (Brow dug up a root, 4 ft deep reaching
 52 lbs.)

5338 *Solidago nemoralis* Pursh. ditto
 (4) In old wheat field (1937) where low
Pinus rigida grows, near large tulip
 Poplar tree 15 ft in air. Colony here
 in full bloom.

5339 *Hypericum punctatum* Lam. ditto
 (1) In old field with # 5338.
 abundant in old wheat field (1937)

5340 *Lactuca inflata* L. ditto
 (5) In last year's wheat field (1937) where
 # 5339 grows: abundant below
 wild carrot very abundant here: full bloom.

- Panicum huachucae* Ash. Bull Run Mt., Va.
 In old wheat field, where
 mixed with wild carrot
 (planted to wheat 1937) Tangier Co.
 July 31, 1938
 H.A. Allard
 5341 (1) Very abundant here below
 wheat canopy. (See notes) e

- 5342 *Vernonia glauca* L. Willd. ditto
 (2) In old broadedge pasture near
 old Riley cabin south of Hagerell Gap. e
 ad west of Castello's.
 abundant here: full bloom.
 a frequent element of the high broadedge
 forest here.

- 5343 *Commelina communis* L. ditto
 (2) Roadside below Castello's,
 Hagerell Gap: damp soil. e

- 5344 *Eleocharis obtusa* (Willd.) Schultes. ditto
 (1) Growing by roadside in wet ditch
 below Castello's, Hagerell Gap. e
 Ident. by H.A. Allard; confirmed by F. J. Hermann

- 5345 *Oxalis corniculata* L. ~~*acutifolia*~~ *acutifolia* (L.) Moench. ditto
 Roadside in grassy field
 (1) near at Hagerell Gap, between
 Castello's and Owens' house near park e
 car: abundant; full bloom.

- 5346 *Juncus acuminatus* Michx. (indiferous form) ditto
 (2) Beside railroad just
 above Beverly Mill. e
 in wet soil at water.
 (Ident. by F. J. Hermann) Bull Run Mt. Va.
 Tangier Co.
 Thoroughfare Gap
 August 7, 1938
 H.A. Allard

- 5347 *Hypericum mutilum* L. ditto
 (2) Damp soil beside #5346 e
 abundant in damp ground.

- Sarothra gentianoides* L. Bull Run Mt. Va.
 Tangier Co.
 August 7, 1938
 H.A. Allard
 5348 on railroad
 just above
 Beverly Mill:
 abundant; full bloom. e
 (orange red)

- 5349 *Verbena hastata* L. ditto
 (1) In wet swale along Broad Run
 west of Broad Run station:
 abundant; full bloom. e

- 5350 *Panicum huachucae* Ash. ditto
 (1) In same swale with #5349 e
 very wet, less along Broad Run.

- 5351 *Gramineae - Panicum agrostoides* Steud. ditto
 (1) In swale with #5349, e
 only one specimen found here.
 purplish panicles.

- 5352 *Scutellaria integrifolia* var. *typica* Ehl. ditto
 (1) same swale with #5349 e
 abundant here; first flower.

- 5353 *Prunella vulgaris* L. ditto
 (1) In a farm with pure, snow white
 blossoms; first I have ever seen) e
 In swale with #5349; five found
 abundant here) e

- 5354 *Panicum huachucae* Ash. ditto
 (1) In ground with #5349. e

Galium apellum Michx. Bull Run Mt., Va.
 In wet swale Aug. 7, 1938
 along Broad Run T. Angier Co.
 near Broad Run Station H.A. Allard
 5355 (1) abundant; full bloom
 fl. white.

5356 *Euphorbiaceae*.
 foliage reddish ditto
 (1) on railroad (dry) just above
 Broad Run Station
 abundant; *Chamaecyparissus* (L.) small.
Euphorbia supina Raf. e

5357 *Elephantopus carolinianus* Willd. ditto
 (1) In woods at shooting spring
 just above Broad Run Station
 full bloom; frequent. e

5358 *Lobelia* *canadensis* L. ditto
 (1) In swale with # 5355:
 abundant; nearly past blooming; fl. rose-pink. e

5359 *Hypericum punctatum* Lam. ditto
 (1) with # 5355
 abundant; full bloom. e

5360 *Lobelia*
 (1) In same swale with # 5355 ditto
 abundant; full bloom
Koeleria blepharosa (Walt.) MacM. e

5361 *Galium tinctorium* L. ditto
 (1) In swale with # 5355
 abundant; full bloom. e

In swale along Broad Run Bull Run Mt., Va.
 just west of Broad Run Aug. 7, 1938
 Station; very wet. H.A. Allard
 5362 (1) hard freezing. Thoroughfare of
 T. Angier Co. e
Lysimachia terrestris (L.) B.S.P.

5363 *Verbena stricta* L. ditto
 (1) (white var. var.)
 In some swale with # 5362 e

5364 *Eleocharis acicularis* (L.) R. & S. ditto
 (1) In mud and water of Broad Run
 nearly west of Broad Run Station e
 there are extensive bog here
 abundant here; not elsewhere -
 (det. by F. J. Hermann) this area.

5365 *Helianthus giganteus* L. ditto
 (1) along railroad just above Broad Run
 Station; just in flower.
 fl. light yellow. e

5366 *Euphorbiaceae* - *Euphorbia preslii* (Dum.) ditto
 (1) on railroad just above Broad Run Station
 abundant; full bloom. e

5367 *Andropogon furcatus* Michx. ditto
 (1) Beside railroad just above Broad
 Run Station.
 My first record for Bull Run area.
 uncommon here. e

5368 *Diodia teres* Walt. ditto
 (1) on Railroad just above Broad
 Run Station:
 abundant; full bloom. e

Polygonum aviculare L. Bull Run Mt., Va.
Aug. 7, 1938
along railroad just
above Broad Run Station. H.A. Allard
5369 abundant; full bloom. Thoroughfare Gap.
Fauquier Co.

5370 *Oxalis stricta* L.
on railroad just above Broad Run Station; ditto
abundant; full bloom.

5371 *Hedera pulegioides* (L.) Pers. ditto
on railroad just above Broad Run Station.
very abundant; full bloom.

5372 on railroad just above Broad Run Station; abundant. ditto
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5373 *Cynodon dactylon* (L.) Pers. ditto
on railroad bed just below Broad Run Station.
scattered here; in bloom.

5374 *Cuscuta cephalanthi* Engelm. ditto
on *Hedera pulegioides*
and on *Bidens bipinnatus* L.
Beside railroad just above Broad Run Station.
abundant; full bloom.

5375 *Oxalis stricta* L., ditto
Beside railroad near Broad Run Station; abundant.

Digitaria sanguinalis (L.) Scop. Bull Run Mt., Va.
Fauquier Co.
on railroad at Broad Run Station Aug. 7, 1938
abundant. H.A. Allard.
at the Thoroughfare Gap

5377 *Poinsettia*
Euphorbia dentata (Michx.) Small. ditto
on railroad just above and
at Berkeley Mill; abundant here: full bloom

5377 a. *Poinsettia cubensis* (Engelm.) Small.
M. only record in Bull Run area (?)

5378 *Chamaesyce preslii* (Pursh.) Arthur. ditto
on railroad near Broad Run Station.
abundant; full bloom.

5379 *Stenophyllus capillaris* (L.) Britton. ditto
on railroad above Broad Run Station.
Very abundant here in almost pure stands
in cinders etc.
Ident. by H.A. Allard (confirmed by T.J. Hermann)

5380 *Eragrostis pectinacea* (Michx.) Nees. ditto
Gramineae.
on tufted, grassy on railroad
track, etc. abundant at Broad Run Station

5381 *Eragrostis spectabilis* (Pursh.) Steud. ditto
on railroad just above Berkeley Mill

5382 *Cynodon dactylon* (L.) Pers. ditto
on cinders on railroad
near Broad Run Station.
abundant; flowering.

Agrimonia parviflora Nutt. Bull Run Mt., Va.
 In damp meadow ^{soland} ^{Franklin Co}
 on Broad Run just ^{August 7, 1938}
 above Thoroughfare ^{H.A. Allard}
 (1) Gap above R.R. leaves Thoroughfare Gap,
 cut - meadow on ground on left
 here; very abundant; full bloom. e

5384 *Eupatorium coelestinum* L ditto
 (2) In small along Broad Run
 near (west) of Broad Run station, e
 a low area all the way to the cooling station
 at bridge above Broad Run station; abundant
 here; full bloom: fl. purple, showy.

5385 *Lycopodium americanum* Muhl. ditto
 (2) In same small with # 5384
 abundant; full bloom. e

5386 *Mimulus ringens* L ditto
 (2) Same small with # 5384; abundant;
 full bloom. e

5387 *Scirpus validus* Vahl ditto
 (2) Same small with # 5384.
 small colony only.
 1 ident. by F. J. Hermann e

5388 *Scirpus affinis* (L.) Kunth ditto
 (3) In same small with # 5384.
 Very abundant here.
 1 ident. by F. J. Hermann e

5389 *Brassicaceae*. ditto
 (1) Same small with # 5384
 very few plants: fl. yellow.
Radiola palustris (L.) Moench. e

Penthorum sedoides L Bull Run Mt., Va.
 Same small with # 5384 ^{Franklin Co}
 Tall herb; shortly serrate ^{Aug. 7, 1938}
 leaves; flowers in a terminal ^{H.A. Allard}
 (4) panicle, whitish or yellowish ^{above}
 Thoroughfare Gap. e

5391 *Asclepias purpurascens* L ditto
 (1) Same small with # 5384
 very abundant here e
 - *a. pulchra* Ehrh.

5392 *Cephalanthus occidentalis* L ditto
 (3) Same small with # 5384.
 abundant here on Broad Run; e
 have not found it elsewhere.

5393 *Plantago aristata* Michx. ditto
 (1) On railroad near Broad Run station.
 abundant here. e

5394 *Polygonum* ditto
 (2) Same small with # 5384.
 abundant; full bloom: fl. white.
 - *Persicaria punctata* (Ell.) Small. e

5395 *Ludwigia alternifolia* L ditto
 (1) Same small with # 5384
 abundant; full bloom. e

5396 *Crotalaria sagittalis* L. ditto
 (2) On railroad just above Broad Run station.
 Leaves very narrow;
 full bloom. e

Epilobium coloratum Mill. ^{Bull Run Mt., Va}
 in small just above ^{Franklin Co.}
 5397 Broad Run Station ^{H.A. Allard}
 along Broad Run ^{Thoroughfare Gap}
 creek on left of railroad.
 (full bloom; abundant here.)

5398 *Cirsium lanceolatum* (L.) Mill. ditto
 in same meadow near
 # 5397: very abundant; coming
 well into bloom; tall, rank.

5399 *Scirpus polyphyllus* Vahl. ditto
 along Broad Run
 (3) not suitable near Broad Run Station.
 (ident. by F. J. Hermann)

5400 *Scirpus cyperinus* (L.) Kunth. ditto
 (2) small on Broad Run above
 Beverly Mill on left side stream
 leaves cut and withered.
 (ident. by F. J. Hermann)

5401 *Mentha cardiaca* Berard. ditto
 (2) small near Broad Run Station,
 along Broad Run where it leaves
 the cut and runs above Beverly.
 full bloom; pink fl; not abundant.

5402 *Ludwigia palustris* (L.) Ell ditto
~~*Ludwigia palustris* L.~~
 (4) abundant here. As we walk
 from Beverly to Broad Run Station, and
 across the railroad cut, this is low ground
 on left on Broad Run in small here.

5403 *Anagallis arvensis* L. ditto
 (3) Primrose
 by railroad above Beverly Mill.
 abundant; full bloom.

Croton glandulosus L. Bull Run Mt., Va
 on railroad at ^{Franklin Co.}
 just above Beverly August 7, 1938
 5404 Mill. abundant here. H.A. Allard
 (11) Only record in Bull Run area.

5405 *Koeleria nicana* (L.) Kuntze ditto
 (2) on railroad bank in thicket
 just above Beverly Mill; abundant;
 full bloom.

5406 *Sonchus oleraceus* L. ^{glaberrimus} ^{Wright & Gray} ditto
 (1) Rail road near Beverly Mill.
 full bloom; bright yellow heads.

5407 *Cyperus strigosus* L. ditto
 (1) not shot by railroad near
 Beverly Mill.
 (ident. by F. J. Hermann)

5408 *Cyperus flaccidus* L. ditto
 (1) not shot by Railroad at Beverly Mill
 (ident. by F. J. Hermann)

^{gracilis A. Gray}
 5409 *Acalypha virginica* L. ditto
 (2) Rail road near Beverly Mill.
 very abundant.

^{chamaecrista}
 5410 *Cassia nictitans* (L.) Muhl. ditto
 (3) Rail road near Beverly Mill;
 abundant; full bloom; fl. small.
 Leaflets closely when struck, so we can see
 motion.

Euphorbia
on railroad
5411 near Beverly Mill. Bull Run Mt., Va.
August 7, 1938
F. Angermer Co.
H. A. Allard
Near Thoroughfare Gap.
Poinsettia cufosforma (Engelm.) Small. e

5412 *Oxalis europaea* forma *agrostifolia* (Small) J. R. S. e
Railroad just above Beverly Mill. ditto
Abundant: full bloom.
5412a: *Oxalis stricta* L. e

5413 *Hypericum gentianoides* ditto
Railroad near Beverly Mill.
Abundant: full bloom
= *S. arbuta gentianoides* L. e

5414 *Medicago lupulina* L. ditto
Railroad at Beverly Mill.
full bloom: only locality in this area. e

5415 *Chenopodium album* L. ditto
Railroad near Beverly Mill. e

5416 *Eleocharis obtusa* ditto
not seen by railroad just above Beverly Mill: abundant. e

5417 *Aster flourensii* L. ditto
not seen by railroad at Beverly Mill. e

Paspalum pubescens Bull Run Mt., Va.
August 7, 1938
F. Angermer Co.
H. A. Allard
Near Thoroughfare Gap.
5418 ditto
Railroad at Beverly Mill. e

5419 *Leersia oryzoides* (L.) Sw. ditto
not seen just above Beverly Mill by railroad. e

5420 *Shargaria androcladia* (Engelm.) Marong. ditto
in mud and water on left of Broad Run just above cut at Thoroughfare Gap going toward Broad Run station: abundant. e

5421 *Carex frankii* Smith, ditto
in mud and water along Broad Run just above where railroad leaves Thoroughfare Gap: in small at left where railroad leaves cut: abundant. e
(Ident. by F. J. Hermann)

5422 *Sagittaria hirsuta* Michx. & B. ditto
in mud and water in small along Broad Run at left just above Broad Run station. e
5422a (same as above) = 5422

5423 *Sagittaria latifolia* pubescens Muhl. ditto
in small north of Broad Run station along Broad Run. e
(pubescent)

5424 *Lianthera americana* L. ditto
in Broad Run at Beverly Mill not in bloom; past bloom, but for a record. e

Tenorella canadensis Bull. Run Mt., Va.
 Trans. quier Co.
 August 7, 1938
 5425 bl. pink. Near Thoroughfare Gap.
 (2) In small on Broad Run H.A. Allard
 just west of railroad above
 Broad Run Station: passing.

5426 *Commelina communis* L.
 (3) on bank beside railroad
 near Berkeley Mill: abundant:
 full bloom

5427 *Achillea plantaginifolia* Raf.
 (1) In small of mud and water
 just above Thoroughfare Gap
 on Broad Run: Not abundant;
 full bloom.

5428 *Gypsea petiolata* L. Pursh.
 (1) In meadow and along railroad
 just above Thoroughfare Gap.
 very abundant: full bloom.

5429 *Rhynchospora alba* var. *minor* Britton
 (3) In damp low shot at
 Gap below abandoned CCC camp.
 a dense pine area here: very
 abundant. Ident. by F. J. Hermann.

5430 *Juncus effusus* L. var. *solutus* Torr.
 (17) Growing beside # 5429.
 large clumps. Ident. by F. J. Hermann.
 damp soil. (seeds without tails)

5431 *Juncus macrocarpus* S. F. Gray
 (3) Growing near # 5429.
 abundant. Ident. by F. J. Hermann.
 (seeds without tails)

Lycopodium virginicum L. Devils Hole Mt., Va.
 same low shot with
 # 5429. Shenandoah Co.
 August 14, 1938
 H. A. Allard
 5432 leaves deciduous at abandoned CCC camp
 (4) purplish beneath. in Gap beyond 3 mile Mt.
 Alleghenies.

5433 *Juncus marginatus* Roeth.
 (2) Growing with # 5429
 seeds without tails.
 (Ident. by F. J. Hermann)

5434 *Juncus macrocarpus* S. F. Gray.
 (2) Growing with # 5429
 (seeds not tailed) (Ident. by F. J. Hermann)

5435 *Enfatisium sessilifolium* L.
 (1) on trail at top and along
 Devils Hole Mt.: abundant: full bloom

5436 *Pycnanthemum incanum* Michx.
 (4) On same dry ridge with # 5435
 abundant: full bloom on trail here.

5437 *Thysanotus foliolosus* (L.) Pursh.
 (2) on same dry rocky ridge west
 with # 5435: abundant here.
 why?

5438 *Cladonia*
 (1) on bank on dry ridge west
 with # 5435: abundant.

Asplenium montanum Willd. Shenandoah Co., Va.
 on dry cliff shelves
 5439 ^{shaded from sun} at very top, and
 1) far from water.

Rock a red sandstone apparently
 of shales. a number of disjuncts
 here.

5440 *Juncus macer* S.F. Gray.

" Growing in damp soil near
 abandoned CCC camp at Gap beyond
 3 mile mountain near peak of Devils Hole
 (Ident. by F. J. Hermann)

5441 *Juncus marginatus* Rostk.

" Growing with # 5440
 (Ident. by F. J. Hermann)

5442 *Cyperus strigosus* L.

" Growing with # 5440
 (Ident. by F. J. Hermann)

5443 *Juncus subcandatus* (Engelm.)

" Growing near # 5440
 (Ident. by F. J. Hermann)

5444 *Juncus marginatus* Rostk.

" Growing near # 5440
 (Ident. by F. J. Hermann)

5445 *Juncus acuminatus* Michx.

(2) Growing with # 5440.
 (Ident. by F. J. Hermann)

Rhynchospora glomerata (Willd.) Rostk. & Schmidt
 var. *minor* Britton
 Shenandoah Co., Va.
 5446 abandoned CCC camp August 14, 1938
 17) at Gap beyond 17.5 mile Mt., Va. near of Edinburg.
 (Ident. by F. J. Hermann)

5447 *Juncus macer* f. *anthelatus* (Wieg.) Hermann

" Near # 5446
 (Ident. by F. J. Hermann)

5448 *Juncus marginatus* Rostk.

" Near # 5446
 (Ident. by F. J. Hermann)

5449 *Juncus macer* f. *anthelatus* (Wieg.) Hermann

(2) Same locality with # 5446.
 (Ident. by F. J. Hermann)

5450 *Juncus macer* S.F. Gray.

" Same locality with # 5446
 (Ident. by F. J. Hermann)

5451 *Juncus marginatus* Rostk.

" Same locality with # 5446
 (Ident. by F. J. Hermann)

5452 *Juncus subcandatus* (Engelm.)

" Same locality with # 5446.
 (Ident. by F. J. Hermann)

Juncus marginatus Post. Shenandoah Mt., Va.
at abandoned CC camp Shenandoah Co
out of Gaf beyond 3 mile Mt., August 14, 1938
5453 in moist soil. H.A. Allard.
(2) Ident. by T. J. Hermann

5454 *Juncus macrocarpus* (Wieg.) Hermann ditto
(1) same locality with # 5453

5455 *Eleocharis obtusa* Willd. ditto
(4) at same wet spot with # 5453;
abundant here

5456 *Juncus marginatus* Post. ditto
(2) same locality with # 5453
(Ident. by T. J. Hermann)
5456A = *J. subcandatus* (Engelm.) Coville
slake

5457 *Cyperus strigosus* L. ditto
(4) same low spot with # 5453
(Ident. by T. J. Hermann)

5458 *Hibiscus oculiroseus* Britton ditto
(2) Swale on left of road near Columbia
to Columbia Turnpike several miles west
along Little Stony Creek. of Edinburgh in
Shenandoah valley,
very abundant. Full flower. Shenandoah Co.
August 14, 1938
H.A. Allard.

5459 *Pilea pumila* fontana (Lunell) Rydb. ditto
(3) same swale with # 5458.
(Ident. by T. J. Hermann)
Aug 26, 1938.

Scirpus cyperinus (L.) Kunth. Bull Run Mt., Va
in swale just Fryingpan Co
along Broad Run station August 13, 1938
5460 (2) abundant
(Ident. by T. J. Hermann)

5461 *Sagittaria pubescens* Muhl. ditto
(2) in swale close to road
just North of Broad Run station
very abundant here. just in flower.

5462 *Gaura bicoloris* L. ditto
(4) Dry roadside bank just west
of Thompson's Gap: A large, branching
bush 6 ft high: flowers yellowish white
turning reddish: not abundant here
some on terrace area near Thompson's Gap.

5463 *Quercus alba* L. Allards yard
(4) (all from same tree) 3000-7th St. N.
Arlington, Va
August 18, 1938
H.A. Allard

5464 *Quercus alba* L. ditto
" from a different tree.
lobes coarser.

5465 *Rudbeckia triloba* (L.) Link. ditto
(5) in low ground along Massanutten Range,
valley just east of Shenandoah Co.
along Mt. Jackson to Shenandoah Mt. H.A. Allard
abundant; full flower.

5466 *Leiatris scariosa* Willd. ditto
(3) on shale (dry) near roadside
where we parked. just in flower.

Mass. In woods South end of Short Mt., Va.
(thin) in Citrasia Massanutten Range,
inlandica colony. Shenandoah Co.
August 19, 1938.
H.A. Allard.

5467

U

5468

U

Cladonia

On shales in thin woods
near Citrasia inlandica colony

ditto

5469

U

Cladonia

Same locality with # 5468

ditto

5470

(3)

Rubia eupatorioides L

On dry shales below cliffs:

abundant; full bloom but passing

(cream white fl.)

a typical shale plant on all these shales, at Signal Knob

ditto

5471

(5)

Commelina erecta L

On shales well up Short Mt. here;

abundant on all these shales

throughout; a typical shale barren plant.

full bloom.

ditto

5472

U

Scutellaria parvula

leopardi Epl.

On shale slope well up mt.

near # 5471

ditto

5473

(3)

Quercus rubra *maxima* Ashe

acorns peculiar in being

very long on this tree.

cup 1.8 cm across

acorn 2.7 base to top

1.5 projecting from summit.

ditto

Quercus rubra

South end of Short Mt., Va.

on shale barren

5474

(2)

abundant; acorns

as in # 5473.

very prolific; trees

multiple stemmed.

10-15 feet high.

a common shale barren tree.

5475

(17)

Quercus muhlenbergii Engelm

abundant on the shales below the

cliffs; full fruit; but young, much less

mature than true Rock Chestnut oak

also here. Especially abundant here.

some badly mildewed.

5476

(1)

Quercus prinus L

abundant in scrubby forest on

the shale barren here)

ditto

5477

(2)

Erigeron pectinatus (Michx.) Nees

Growing on side walk

on a street in

very vigorous.

5478

(3)

Quercus rubra *maxima* Ashe

On shales with # 5475 etc.

Below cliffs on shale muffer, but

all over the mountain to the cliffs)

5479

(1)

Quercus rubra *maxima* Ashe

On shales below cliffs;

acorns long as in # 5473

5480

(2)

Quercus rubra *maxima* Ashe

acorns and cups large;

proportionately shorter and

thicker than # 5473 & # 5479.

on shale barren with # 5479

ditto

Bidens bipinnata L. South end of Short Mt., Va.,
Massanutten Range,
on cliffs and Shenandoah Co.

5481 rocks at extreme August 19, 1938.
(4) Top of ridge at H.A. Allard
2700 ft. Some flat rocks with thin e
sil (horizontal) covered with moss and
small plants among mosses.
Mosses kept them moist.

5482 *Empetrum sessilifolium* L. ditto e
(4) on top of cliffs at 2700 feet is
highest point in this ridge; full bloom;
abundant.

5483 Moss. On top of cliffs at 2700 ft.
(1) On large horizontal rocks of 8-10 ditto
square feet with # 5484 with which it was
competing. This rock covered entirely with
a fine covering of these two mosses.

5484 Moss
(1) a beautiful bright green moss
growing on same flat rock with # 5483, ditto
competing with it

5485 *Salix latifolia* Michx. ditto
(1) on top of cliffs near # 5482
part blooming; in fruit; abundant;
but not on shale below. This habitat on
cliffs above shade one of deciduous, dry woods.

5486 *Polygonum texense* Michx. ditto
(3) On barren shales below cliffs.
scattered here.

5487 *Allium cernuum* Roth e ditto
(1) On barren shales and shale
cliffs below upper cliffs; abundant.
part blooming; a typical shale plant
here in very barren places.

Selaginella rupestris (L.) Spring South end of Short Mt., Va.
Massanutten Range,
on barren shales and Shenandoah Co.

5488 shale outcrops August 19, 1938
below cliffs; H.A. Allard
(1) abundant; gray green like a moss;
appressed.

5489 *Bouteloua curtipendula* (Michx.) Torr. ditto e
(3) on shales directly below cliffs;
one patch about 12-25 sq ft in area;
full bloom; my first record for Virginia

5490 *Celtis occidentalis* *crassifolia* Lam. ditto
(3) on shales just below peak
of Clinton sandstones: abundant
here, but scrubby.

5491 *Quercus prinus* L. ditto
(1) (Rock chestnut oak)
on barren shales near # 5490; e
abundant; fruitful.

5492 *Quercus muhlenbergii* Tuckerm. ditto
(1) On barren shales near
5490; abundant; fruitful;
but acorns less abundant than
Quercus prinus. Have these four
found it only on south end
of Short Mt.

5493 *Carduus acanthoides* L. Great Valley of Va.
(5) abundant by roadside e Shenandoah Co.
near Woodstock; still on Valley Pike
blooming but mid season earlier - August 21, 1938
in June. H.A. Allard.

5494 *Helianthus scaberrimus* Bull. Bull Run Mt., Va.
(3) e Shenandoah Co.
beyond The Longfellow Gap on
the right of detour near rough road. August 21, 1938
H.A. Allard.
14 inch *Rudbeckia laciniata* here
also. fl. with deep yellow comp. with *R. laciniata*

Houstonia tenuifolia Nutt. Three Top Mt., Va. west slope
on barren shales Shenandoah Co.
on ridge beyond Massanutten mts
5495 August 21, 1938
H.A. Allard
(1) picked on Pugh's Run road: abundant; still
in bloom on rocky upper slopes. e

5496 *Ameloria polygonoides* Raf. ditto
(2) on Henk shales (bad, barren) with # 5495, forming extensive
pure stand patches; also in woods
above: full bloom. Honey bees visit them
tiny flowers, finding them readily.

5497 *Setaria viridis* (L.) Beauv. ditto
(2) on barren shales here
little else green; near # 5495
scattered over there. e

5498 *Quercus rubra* *mopina* Ashe ditto
(2) on barren shales
with # 5495; abundant,
low, scrubby - 10-15 ft. high;
productive; abundant all
way up mountain to top. e



5499 *Isanthus brachiatus* (L.) B.S.P. ditto
(1) on barren shales above the steep cliff
outcrops; abundant here: full bloom.
first record for Va. a typical shale plant.
(Near # 5495)

5500 *Carex frankii* Kunth. ditto
(3) In cellar of old abandoned
house at foot of mt. near door.
a large clump here. (Extensive thickets
of wine berry here) ident. by F. J. Hermann.

5501 *Meibomia* *filloni* Darl. ditto
(1) In pasture thickets near
old house mentioned
for # 5500; abundant. e

Crotogeomys *pinosa* (Muhl.) K. Koch. Three Top Mt., west slope, Va.
Massanutten Range.
(1) fruit ripe, crimson. Shenandoah Co.
a large colony on; August 21, 1938
5502 cliffs at very H.A. Allard
(3) Top of ridge, and fruiting heavily; e
very showy with crimson fruit.

5503 *Quercus prinus* L. ditto
(1) on upper slope at top just e
below # 5502.

Dominant sp. with Red Oak: fruiting
5504 *Ribes* *discoloria* *rotundifolia* Michx. *cop.* Britt ditto
(2) (sorbony) on upper slopes on exposed
sunny slides: scattered and more or
less general.

5505 *Clitoria* *glabra* (Mill.) Hitchc. ditto
(1) on barren shales with # 5503, e
here abundant, but low - 10-20 ft., scrubby;
bearing prolifically: a true shale species
here, even where little soil on cliffs.

5506 *Clitoria mariana* L. ditto
(3) abundant, full bloom on shale e
barrens here, low stem, loose,
forming large, paired colonies.
very showy: a shale lover.

5507 *Lobelia* *sp.* ditto
(3) (L. pink) e Roadside near Woodstock, Va.
August 21, 1938
Calamintha Nepeta Link H.A. Allard.

5508 *Spiranthes* *beckii* Lindl. ditto
(1) In old field near
old abandoned house where
5501 grew. e

Juncus scirpoides Lam Bull Run Mt., Va
August 28, 1938
H.A. Allard
Begin: In low ground
along overflow
below chestnut tree
spring at Allen's (negro) cabin, east slope.
This beyond Mrs. Ashby's (nest) & e
(Ident. by F.J. Hermann)

5509 *Rhynchospora capitellata* (Michx.) Vahl ditto
(1) Growing abundantly with # 5509 -
along low area here.
(Ident. by F.J. Hermann)

5511 *Solidago nemoralis* Ait ditto
(1) Old field near Allen's cabin -
just west of # 5509: abundant: full bloom

5512 *Solidago graminifolia var. nuttallii* (Greene) Fernald ditto
(1) Dry old field: growing beside
5511: abundant: just coming
into bloom

5513 *Eupatorium hyssopifolium* L ditto
(3) Dry thicket in cut near woods
east slope just above Allen's chestnut tree
spring: abundant here: full bloom.

5514 *Samolus rotundifolius* L. ditto
(1) Same thicket with # 5513
abundant: fruit green yet.

5515 *Lobelia spicata* (Muhl.) Michx ditto
(4) Same thicket with # 5513
abundant: full bloom: fl. blue.

Sphagnum Bull Run Mt., Va
North of Antioch -
Prince William Co.
August 28, 1938
H.A. Allard.
In same thicket
with # 5513: a
5516 sedge sp. here on
(1) an otherwise very dry,
rocky steep mountain slope; practically
dry now: but moss healthy.

5517 *Lespedeza hirta* (L.) Hornem. ditto
(3) In same thicket with # 5513:
abundant here and in dry rocky wooded
ridge above: full bloom: fl. cream.

5518 *Lespedeza frutescens* (L.) Britton ditto
(3) In same thicket with # 5513:
abundant: full bloom: in dry
woods above on crest etc: fl. purple

5519 *Populus grandidentata* Michx. ditto
(2) On crest of dry ridge in turn
on easternmost ridge just west of
Ashby's: abundant: these leaves
very pointed.

5520 *Meibomia laevigata* DC ditto
(4) On hillside in thicket and young
growth of pines (Va) & rigida and
chinquapin just S.W. of Allen's: abundant
on all dry ridges here: full bloom: fl. purple
just in bloom: tall: slender to head high

5521 *Meibomia lineata* DC. ditto
(2) ~~Meibomia laevigata~~ *Meibomia*
growing with # 5520: (near a rail)
abundant: full bloom: on these
dry wooded ridges generally. fl. purple.

5522 *Meibomia dilleri* Sarg. ditto
(2) In same locality with # 5520:
abundant: full bloom: fl. purple.

In small between Great Valley of Va
Edinburgh and Columbia Shenandoah Co.
Furnace. (Plants) Sept. 5, 1938
5523 of same colony coll. H.A. Allard
Aug. 26, 1938
Pilea See # 5459 - Pilea fontana (Dunell) Rydb.
ident. by F.J. Hermann 9-8-38

Poromychia fastigiata var. humila (Wood) Fernald.
5524 Amydriastrum montanum Shenandoah Mts.
181 on dry shale slopes #5529 West Va., Hardy Co.
where road side was built into HA Allard
at top of mountain: a fine stand
nearly closed; plants very large, Sept. 5, 1938

5525 Scirpus affinis var. pilosus Torr. (ident. by Dr. F.J. Hermann 9-8-38)
31 Damp shady roadside Spruce Knob,
at 4400 ft Pendleton Co.,
West Va.
abundant. Sept. 5, 1938
H.A. Allard

5526 Moss
11 Damp spot in open
pasture just west of Mr. Moses
Bennett place, near Annapolis
margaritacea is abundant.
5527 Pogonatum pennsylvanicum (Hedw.) Paris.
11 Juncus macer S.F. Gray. ditto
Near # 5526
abundant, ident. by Dr. F.J. Hermann
9-8-38

5528 Centaurea maculosa L. Out of 2
31 on highway from Shenandoah Mts.,
Harrisonburg to Franklin Va., Rockingham Co.,
Beside road near West Va. line Sept. 4, 1938
several plants: full bloom. H.A. Allard.
shining. (used says Blake S.F. 9-8-38)

5529 Amydriastrum montanum. ditto
151 same locality with # 5528
very abundant; on dry shales by
roadside; appears localized at
high altitudes in mountains. Fernald.
var. humila (Wood) Torr. - ident. 9-8-38 by Dr. F.J. Hermann

Composite
yellow fl. L. beyond Harrisonburg, Va.
= Hieracium pilosella L. on road to Franklin, West Va.
5530 in woods Sept. 4, 1938
11 by stream before
ascending Shenandoah Mt. e
(ident. by S.F. Blake 9-8-38)

5531 water plant
11 at stream near # 5530 green. ditto
Ferns extending dense green
patches on water side in mud:
no flowers.

5532 Solidago rigida Mill. at Doria, West Va.
31 all over the plateau Tucker Co. 1938
here, the most abundant Sept. 5, 1938
goldenrod: full bloom. H.A. Allard.
very showy. Their pond, alt. 3100 ft
near old pulp factory mine.

5533 (Aster umbellatus Mill.) e
11 same loc. with # 5532 ditto
were the plateau: the most abundant
species: entering the tributary.
Sullingeria umbellata (Mill.) Nees

5534 Aster.
11 Growing on outskirt with ditto
5533: abundant; full bloom;
rays blue, showy.

5535 (Catalpa baccata L.) e ditto
11 Growing near # 5532
abundant: full bloom.
Synosma sarsoceras (L.) Raf.

5536 Acaia arvensis (L.) Scop. e ditto
11 Growing at mine of
discontinued pulp factory
at Doria: a few plants: in full
bloom. Growing near # 5532.
ident. 9-8-38 by Dr. F.J. Hermann

Spiraea salicifolia
In low ground
near Allegheny River. ^{Near Davis Mt. Va}
5537 nearly past flower; ^{Sept. 5, 1938.} Tucker Co.
(2) very abundant. H.A. Allard
Leonard says *S. alba* DuRoi
correct. e

5538 *Polytrichum commune* Hedw.
Mass ditto
(2) In low ground and very wet producing a
very green boggy roadside, water beneath
ill-smelling. Note long dead portion
below; this singular to a sphagnum
bog.

5539 *Solidago purpurea* Nutt. ^{on top of Shenandoah Mt. Va}
(2) on wood road near West Va. line.
from Lost River to Shenandoah Co.
Columbia Turnpike. Sept. 5, 1938 e
full bloom; abundant. H.A. Allard

(1) *Angelica villosa* (Walt.) B.S.P. ^{Bull Run Mt. Va}
on roadside in woods. Sept. 11, 1938. Frazier Co.
1 mile north on valley road. H.A. Allard
crossing R.R. just south of put north of Hingham Gap.
Berkeley Mill. Scattered; in fruit mostly
e

5541 *Cuscuta compacta* Guss. ^{on}
(1) *Hydrangea arborescens* ditto
In woods beside road near # 5540 e

5542 *Gerardia tenuifolia* Vahl
(3) on wooded bank near # 5540 ditto
full bloom - flower purple.
By roadside here e

5543 *Moss*
(1) In woods on bank north
of R.R. at Berkeley Mill.
about 1 mile north. ditto

Lespedeza procumbens M. ^{Bull Run Mt. Va}
Sept. 11, 1938
In pasture north of
old chimney and cellar
hole north of R.R. on
valley road - near edge of woods.
This near the flag stone granary here. e

5545 *Quercus rubra* L. ditto
(1) Red oak - typical.
Large tree just beyond stone # 5544 near
on fence row near flag stone granary
and negro houses. e

5546 *Carya glabra* (Mill.) Britton
(3) ^{Virginia} Tree on edge of woods beyond ditto
5545 just above negro houses. e

5547 *Coreopsis tripteris* L. ditto
(2) old field around abandoned cabin
beyond # 5546 - very abundant this
year. Last year very few; perennial.
Field yellow e

5548 *Leskea racemulosa* Lam. ditto
(3) In old pasture near granary
near old cabin where # 5547 grows;
abundant. e

5549 *Eragrostis pectinacea* (Pursh.) Steud
(2) In old field or pasture near ditto
5547 abundant; showing
reddish purple. e

5550 *Heibornia* ditto
(2) In some old pasture
near # 5544.
Samodina. dilleria. Darl. e

Aristida oligantha Michx. Bull Run Mt., Va.

Sept. 11, 1938

In old pasture.

5551 with # 5544,

(1) 5549, 5550 etc.

H.A. Allard
Fauquier Co.

Large areas in dry sterile soil. e

5552 *Andropogon scoparius* Michx.

(1) In same old field with ditto
5551 etc.; a few still in
brown; mostly past. was very abundant
this field. e

5553 *Solidago pinnatifolia* var. *multicollis* (Pursh) Britt. & Rose
(2) var. *multicollis* ? ditto

In same old field with
5551: abundant here,
(very multicolored) e

5554 *Cyperus strigosus* L.

(1) In wet shade in old pasture near ditto
5551 (Det. by T. J. Hermann
9-19-38) e

5555 *Panicum philadelphicum* Bernh.

(1) In same old field with ditto
5552 e

5556 *Cyperus strigosus* L.

(1) In wet shade in same old ditto
field near # 5555
(Det. by T. J. Hermann 9-19-38) e

5557 *Cyperus rivularis* Kunth

(2) In wet shade in old field ditto
near # 5554.
(Det. by T. J. Hermann 9-19-38) e

Trinervia tylic antimalis Bull Run Mt., Va.

Sept. 11, 1938

In low spot near

5558 # 5555 54. abundant here

(1)

var. *micronulata* (Michx.) Torr.

(Det. by T. J. Hermann
9-18-38) e

5559 *Meibomia dillenii* Darl.

(1) Road side in woods just
north of railroad on Shenandoah
valley road below Beverly Mill.
full bloom. ditto e

5560 *Echinochloa crus-galli*

(2) Roadside near # 5559; abundant.
var. *mutis* (Pursh) Peterm. ditto e

5561 *Leersia virginica* Willd.

(2) Bank in woods on roadside ditto
near # 5559 e

5562 *Panicum polyanthes* Schult.

(3) On roadside bank near # 5559 ditto
e

5563 *Leersia angustata* (L.) Sm.

(1) In low, open, wet spot by ditto
roadside a few hundred yards
north of railroad on valley road. e

5564 *Meibomia dillenii* Darl.

(3) In old field where black walnut
tree stood and old chimney - it
1/4 mile W. of railroad below Beverly on
valley road. ditto e

Shorea purpurea (L.) Lam. Bull Run Mt., Va.
 in old field with tangier Co.
 Sept. 11, 1938
 H.A. Allard
 5565 #5564 around old house site where black walnut tree stood; much *Lycium* here.

5566 *Quercus falcata triloba* Michx. ditto
 (2) small trees in valley road just south of Berkeley Mill above track bed on this dry ridge.

5567 *Actinomeris alternifolia* DC ditto
 (2) in damp thickets, very abundant just below Berkeley Mill above rail road.

5568 *Vitis vulpina cordifolia* Michx. ditto
 (2) vines very common, broad and damp thickets with #5567 at rail road below Berkeley Mill.

5569 *Panicum stipitatum* Nash ditto
 (15) in small just west of Thoroughfare Gap near here #55 high way turns out dirt detour, i.e.

5570 *Helianthus annuus* L. New Jersey
 (1) on field in land on New Jersey flats below New York; area. on #1
 Coll. by C.W. Bacon, V.S.D.A. Sept. 1, 1938 (appears to represent reversion to a wild many-headed form)

5571 Lichen (unsp.) Three Top Mountain, Va.
 (1) on shade of west slope, at end of road turning off Highway #11 at Pugh's Run
 Mageanthes Ridge, north of Woodstock, Shenandoah Co., from Pugh's Run
 Sept. 18, 1938
 H.A. Allard.

Lichen on shale cliffs with #5571
 5572 (slope very steep) (near slides)
 Three Top Mt., Va.
 Shenandoah Co.
 north of Woodstock
 at end of road at Pugh's Run
 Sept. 18, 1938
 H.A. Allard.

5573 Lichen ditto
 (1) same locality with #5571 (on shale cliffs)

5574a = *C. verticillata* (Hoffm.) Schaer. (indefinite in form)
 5574b = same as 5574c

5574 *Cladonia subcariosa* S. exultans Wain. ditto
 (1) on shale slope in woods of west slope, cups with

5574a = *C. verticillata* S. exultans (Th. Fr.) Schaer. with squamules inside / etc.
 5574b = same as 5574c
 5574c = *C. verticillata* h.h. f. aggregata (Del.) Alis.

5575 *Cladonia* cup formed ditto
 on shale slope in thin woods near #5574 cups with squamules.

5576 *Cetraria islandica* L. Ach. ditto
 (1) on shale ridge in thin woods west slope - near #5575 + mosses.

5577 Moss ditto
 (1) on shales on crest of ridge in thin thickets of Red oak, *Solidago* *botry*, *Robinia*

5578 *Quercus velutina* Lam. ditto
 (18) leaves deeply lobed and lobes margin, resupinate, red oak, but much more pubescent beneath: awns typically black. One good before we got to farm where we parked car - all from individual tree A.

Quercus marilandica
velutina Lam.
 on shale west slope -
 on ridge just north of
 barn house where we
 hiked, in dry sterile shale pasture
 with even slope;
 18)

Three Top Mt., Va.
 Massanutten Range,
 Shenandoah Co.
 Sept. 18, 1938
 H.A. Allard

5579 *Tragopogon*

(1) Roadside near # 5578
 (Green panicles)
Panicum capillare L

ditto

5581 *Polygonum tenue* Michx.

(3) On shales with # 5579; same
 locality; abundant here

ditto

5582 *Amaranthus*
pauciflorus L

(3) In door yard of farm
 house; fructate; abundant;
 Shenandoah Co., Va.
 Sept. 18, 1938
 H.A. Allard

5583 *Kuhnia eupatorioides* L

(4) Near bridge on Pugh's Run just north of roadstop
 just off U.S. highway #11 and just off U.S. highway
 also abundant on Massanutten #11 on limestone
 shale of Signal Knob, Three Top Mt. ch.
 Sept. 18, 1938
 H.A. Allard

5584 *Hypericum*
gentianoides (L.) BSP.

(3) on shales with # 5579 and # 5581
 very abundant in this pasture
 Shenandoah Co.
 ditto

5585 *Trichostema dichotomum* L

(1) In same locality together
 (7) with # 5581; very abundant here
 on a thin, heavily wooded shale
 slope in pasture.
 ditto

Saururus hachriatus (L.) Massanutten Range,
 on shale ridge
 just east of Three Top Mt.; Shenandoah Co.
 Sept. 18, 1938
 H.A. Allard
 16) where we hiked at
 end of Pugh's Run; abundant; full
 bloom.
 e

5587 *Empetrum nigrum* folium Reich.

(2) Low plant very brown hairy; in
 it var. *villicaulis* Thernald;
 Growing with # 5581;
 ditto

5588 *Euphorbia obtusifolia* L

(3) Growing with # 5581; abundant; full bloom;
 ditto

5589 *Quercus marilandica* Muench

(2) Growing in shale pasture
 with # 5581
 ditto

5590 *Paronychia fastigata* (Raf.) Horn

(1) var. *humilis* (Wood.) Horn.
 on shales with # 5586
 abundant; full bloom; style long
 ditto

5591 *Aristida dichotoma* Michx.

(1) Growing with # 5585
 ditto

5592 *Houstonia* Nutt

(2) Growing with # 5585;
 abundant; full bloom; passing.
Houstonia tenuifolia Nutt.
 ditto

Solidago bootii Hook Massanutten Range,
var. Three Top Mountain, Va
on steep shales Shenandoah Co
5593 with # 5586: Sept. 18, 1938.
31 very abundant here H.A. Allard #
at top; scarcely any in bloom; very
late. on steep, shaly ridge just east
of foot of slope of Three Top Mt.

5594 *Verbascum phlomoides* L
(31 on Pughs Run just off
U.S. highway # 11, North of Woodstock, Va.
By roadside, a colony in full bloom.
Flowers larger, brighter yellow than
those of *Verbascum thapsus*. Does not
5595 well with descriptions in Gray et al.,
horvath. My first record for Va.

(11) *Chenopodium glaucum* North of Woodstock, Va
in farm yard altum Great Valley of Va.
near Woodstock, e Shenandoah Co
Sept. 18, 1938
5596 growing beside H.A. Allard
5582 side of road, culplike, w. keel.

(11) *Paricoma cragrostidis* (L.) Nees
(Has habit of an *Eragrostis*, very
fine, termonous) Massanutten Range
on shales, west slope, near
ridge at foot of Pughs Run
3 miles N.E. of Woodstock, Va. Sept. 22, 1938
H.A. Allard
(2) *Eragrostis capillaris* (L.) Nees. shale ridge.
(green panicles, very termonous) ditto
growing near # 5596, in thin woods
on shale slope.

5598 Moss
(11) on rocks near crest of Three Top ditto
mountain above shale ridges south
where we park. This in rock slide zone
in heavy woods in ravine.

5599 Moss
(11) Near # 5598: woods. ditto

Moss Three Top Mt., Va
on rocks well up Shenandoah Co
west slope of Three Top Massanutten Range
5600 on boulder slides Sept. 22, 1938
occurs in above shales H.A. Allard.
(11) in woods in shallow, damp ravine.

5601 Limestone?
(11) Growing with # 5600 ditto

5602 Moss
(11) Growing on rocks in same ditto
wooded ravine with # 5600

5603 Limestone
(11) On rocks near # 5600 ditto

5604 Moss
(11) On rocks near # 5600 ditto

5605 Moss
(11) on rocks with # 5600 ditto

5606 *Solidago bicolor* L (form) e ditto
(11) on shales very steep near
foot of Three Top Mt., where I fell
down slope suffering severe lacerations
of left palm (with Dr. H. J. Herrmann)
abundant, full bloom. a nearly glabrous form

Solidago ~~serotina~~ pub. Three Top Mt., Va
on steep shale at foot Massanutten Range
of west slope of Three Top Mt., Shenandoah Co
Va. Sept. 22, 1938
with Dr. F. J. Hermann H. A. Allard
(2 abundant beside # 5606; full bloom)
: *erecta* according to S. F. Blake 9-28-38

5608 *Muhlenbergia sifolifera* (Muhl.) Trin. e
" In woods at foot of shale slope ditto
below here & full

5609 *Helianthus autumnale* L ditto
" In flood plain of North Fork of
Shenandoah River near foot of shale
slope & full, and just east of farm yard
where no park on Pugh's Run Road.
abundant; full bloom, e

5610 *Eupatorium verticillifolium*
var. *villifolium* Fernald ditto
" In flood plain with # 5609: very
abundant here: full bloom: all with hairy
stems mostly. High up on rock slides some
are of typical form, i.e. glabrous or glabrate.

5611 *Cuscuta* on *Solidago altissima*
" Growing with # 5609 ditto
- *C. gomorii* Willd.

5612 *Galium pilosum* Ait e ditto
" On shales (wooded) near
top of shale slope where lilacs
were found, and shale ledges outcrop
3 mi. N.E. of Woodstock: common in
woods.

5613 *Eragrostis capillaris* (L.) Nees.
" On shales at foot of ridge e ditto
near path leading past door yard east,
where we parked.

Rubus laciniatus Willd. Three Top Mt., Va
with fruit, large, Massanutten Range
Sweet. Shenandoah Co
Sept. 22, 1938

5614 In ravine at 17.9 Allard
" (41 foot of shale slope
along road way in pasture east of
where we parked. My first acquaintance
with this blackberry. Rare; seemingly
more or less evergreen.

5615 *Calamagrostis porteri* Gray
" In rocky woods near top
of main ridge above road slides ditto
occurs. Not common: passing e

5616 *Lespedeza repens* Benth. ditto
" At foot of shale slope near
5614: abundant prostrate, e
using thin sticks in pasture here.

5617 *Digitaria filiformis* (L.) Koel ditto
" On shales at foot of slope with
5616: abundant here. e

5618 *Panicum capillare* L ditto
" Growing with # 5617.
Resembles an *Eragrostis* in habit. e
very delicate, ternate.

5618A: *Panicum Philadelphicum* Bernh.

5619 Labiateae.
" growing with # 5614 e ditto
Scutellaria ovata (Wood) Ehl.

5620 *Perilla frutescens* (L.) Britton
" Growing near # 5614: e ditto
very abundant in damp thicket wooded
ravine here.

Euphorbia
on shale at foot of
slope in thin woods
5621 near # 5614: Sept. 22, 1938
H.A. Allard,
(4) scattered in grass and low herbage
here.

Poinsettia dentata (Michx.) Small e

5622 *Acalypha virginica* L.

(2) Growing with # 5621 e

5623 *Solidago bootii* Hook

(2) all over steep shale
at foot of Three Top Mountain just
east of farm house where we park,
3 miles N.E. of Woodstock, Va.
5624 abundant; just in bloom.

(3) *Antennaria annua* L. ditto e
growing along with fork of Shenandoah
on flood plain with # 5609: abundant:
full bloom here.

5625 *Lepedogon sericea*

(3) In old field on Near Red Oak Mt., Va.
Fauquier Co., Sept. 22, 1938 e
highway # 55: scattered; H.A. Allard.
full bloom. (introduced) = *L. cuneata* D. Don.

5626 *Helianthus angustifolius* L.

(6) full bloom) Near Herrifield, Va.
Fairfax Co.,
My first record for Va. Damsy shot by roadside

5627 *Vitis bicolor* Salente

(3) on rock slide Three Top Mt., Va.
near top of Three Top, Shenandoah Range
west slope; abundant. Sept. 22, 1938
fruit with bloom, pleasant. H.A. Allard.

Bidens aristosa, Bull Run Mt., Va.
near downwardly parked Loudoun Co.,
by roadside on Triassic. near Chantilly, Va.
5628 very showy: passing Sept. 25, 1938
(5) H.A. Allard.
var. *fitcheyi* Ternald, e

5629 *Pilea pumila* (L.) G. Gray.

(3) In woods back of ditto
John Gaspin's home, N.E. of Round Knob.
Heavy woods on west slope.
abundant: full bloom etc. e

5630 *Elephantopus carolinianus* Willd.

(4) In moist woods with # 5629 ditto
(5) Full bloom: abundant here. e

5631 *Galinsoga passiflora*

(5) var. *altata* (Raf.) Blake ditto
in old field near farm of
John Gaspin: abundant. full bloom. e

5632 *Angelica polygonoides* Raf.

(1) Growing with # 5629 in ditto
open in woods: abundant,
passing. e

5633 *Muhlenbergia sobolifera* (Muhl.)

(3) In woods near # 5630. ditto
min. e

5634 *Lepedogon stipularia* Moench.

(3) In old field on east slope and ditto
in valley east of Gaspin's ridge e
between entrance and Gaspin's Ridge.
very abundant.

Lespedeza striata (Thunb.) H & A Bull Run Mt., Va
Fauquier Co
Sept. 25, 1938
H.A. Allard
5635 In valley between
Gaskins' ridge and
easternmost ridge,
directly east of Gaskins', in waste ground,
abundant covering ground.

5636 *Solidago altissima* L ditto
(3) In old field near # 5635.
abundant; full bloom.
6 ft tall or more.

5637 *Scirpus angustoides* (L.) Sw. ditto
(3) And brook in valley beyond
(east) of Gaskins' place, i.e. between
his ridge and the high easternmost ridge.
abundant here; a tangle of decumbent
stems.

5638 *Carpinus caroliniana* Walt ditto
(1) In swampy woods between
Gaskins' ridge and easternmost ridge -
directly east from his home 6 miles S. of Albé.

5639 *Meibomia dillenii* Darl ditto
(1) In *Desmodium*
Same swamp with # 5638

5640 *Muhlenbergia capillaris* (L.) Link ditto
(2) In old field near beyond at east
of # 5638, near giant white oak tree
where we ate lunch. Dense stands
here. = *M. schreieri* var. *palustris* (Scribn.) Scribn.

5641 *Eupatorium collectionum* L. ditto
(3) In low ground meadow in
valley just south of # 5638 on edge
of woods. Abundant; bl. rich violet,
very showy.

Dryopteris diatrypa Bull Run Mt., Va
Fauquier Co
Sept. 25, 1938
H.A. Allard
5642 In swamp just beyond # 5641
swamp here # 5641 near # 5642
" = *D. goldiana* (Hook.) Max

5643 *Agrostis perennans* (Walt.) Link ditto
(1) In woods near sandpiper
beak just bordering swamp
here # 5641 grass: scattered,

5644 *Quercus coccinea* Michx. ditto
(4) In small woods near #
5642, in small isolated
grove in pasture here.
Quercus shedding now.

5645 *Quercus prinus* L ditto
(3) Growing beside # 5644.
Most abundant oak in area.
acorns shedding now.

5646 *Pinus pungens* Lamb. Three Top Mt., Va
(3) at top of ridge, Massanutten Range,
beyond Shenandoah Co
beyond shale ridges. Sept 22, 1938
large tree. H.A. Allard.
(This not of date under by mistake)

5647 *Aster cordifolius* L ditto
(3) On damp bank along North Fork
of Shenandoah R. of here near park
end of Pugh's Run Road. Abundant; full
bloom: (near blue) Hemlocks abundant here.
(Near old summer cabins)

5648 *Agrostis* ditto
(1) Growing on wet slope near
5647, in old road.
Agrostis perennans (Walt.) Link.

- Cladonia* (cramped) * Three Top Mountain, Va.
+ mosses Massanutten Range,
Shenandoah Co.
5649 on soil on rocks near top, west slope. Oct. 2, 1938
H.A. Allard.

- 5650 *Solidago rostrata* Hook. (6 sheets) ditto
(9) on steep shale hill & fell at foot of Pugh's Run road off U.S. 211. abundant on barren shale hill. passing River 3 miles N.E. of Woodstock. Oct. 6, 1938

- 5651 *Vitis cordifolia* Michx. (3) on shale by roadside near where we parked car. 3 miles N.E. of Woodstock. Fruit black, shimmering, very acid at end of Pugh's Run road near farmer house.

- 5652 *Solidago bicolor* L. (1) on shale (steep part) with # 5650; abundant: rays cream
full bloom. ditto

- 5653 *Liatris scariosa* Willd. (2) on shale near edge of woods at flatter portion above steep slopes. See woods begin: full bloom: not abundant. ditto

- 5654 *Celastrus scandens* L. (4) on top of rocky ridge, 3 miles N.E. of Woodstock. abundant: full fruit; leaves yellowing, falling. ditto

- 5655 *Solidago caesia* L. (5) Growing with # 5654 full bloom, very beautiful, fresh: one of our latest golden rods: abundant ditto

- America coccinea* Wang. Three Top Mt., Va.
Growing on west slope, 3 miles Massanutten Range
N.E. of Woodstock, abundant. Shenandoah Co.
5656 This very small, long fruit below. Oct. 2, 1938
H.A. Allard.
(5)

- 5657 *Solidago bicolor* L. Bull Run Mt., Va.
Road side, Hagerell Gap. Prince William Co.
(1) just west of Antioch, Va. Oct. 5, 1938.
full bloom; abundant. Hagerell Gap.
H.A. Allard. e

- 5658 *Panicum philadelphicum* Bernh. (1) In corn field, just south of Mrs. Cop's house, west slope, north of Hagerell Gap. nearly mature. e

- 5659 *Aristida oligantha* Michx. (1) Roadside below High Point (west) on west slope: abundant. ditto
(mistlelike cast) e

- 5660 *Panicum gillingeri* Nash (1) In corn field with # 5658. abundant last year: uncommon this year in same field. ditto
mature: sterile falling. e

- 5661 *Achillea gracilens* L. (1) Growing in old farm field (of 1937) near stream & road just below (west) of white rocks: very abundant. ditto
seeds black, smooth. e

- 5662 *Panicum philadelphicum* Bernh. (2) Growing beside # 5661, very abundant in this old cornfield. ditto
e

Aster purpureus L

Bull Run Mt. Va
Fauquier Co.
North of Hopeswell Gap, Va
Oct. 5, 1938
H.A. Allard

rays bright blue
5663 By roadside at stream
and bridge below Hunt Park.
(3) when the car was parked.
very abundant, showy
(leaves trodden) bracts loose

5664 *Solidago altissima*
near Harris place east
in valley by old cherry tree.
abundant; full bloom

5665 *Prenanthes serotina* Pursh
(2) along wood road just
north of Hopeswell Gap, in
interior valley road to Mrs. Achby's.
full bloom; common.

5666 *Solidago graminifolia*
var. *multiflora*
(2) In old field near Allen's house
west of Achby's place, north of Hopeswell Gap.
the inflorescences dried.
abundant; full bloom.

5667 *Eupatorium hyssopifolium* L
(1) In same field with # 5666
abundant here; full bloom.
Rare elsewhere in Bull Run, Prince William Co.

5668 *Panicum clandestinum* L
(1) Near # 5667 - south of Allen's
house (colored) in old field.

5669 *Digitaria*
(3) In old field just west of
Allen's cabin near
chestnut tree spring.
abundant.

Aristida dichotoma Michx.
In old field near
Allen's cabin - is
with # 5669.
(2) very abundant in
thin soil; mostly
east.

5671 *Panicum agrostoides* Spreng.
(1) abundant - nearly lost -
in moist spot just south of
Allen's cabin - near # 5670

5672 *Eragrostis putinaea* (Michx.) Nees
(1) In old field near
5670; abundant;
now showing purplish.

5673 *Prenanthes trifoliata*
(1) Roadside next west of deep cut
west of Antioch & mile on Hopeswell Gap
road; full bloom.

5674 *Bidens vulgata* Greene
(1) In soil by roadside
beside # 5673.
abundant.

5675 *Liriodendron*
(1) In old field near
5670.
abundant; past flower.
Cathartolirium virginianum (L.) Reichenb.

5676 *Panicum*
(1) Roadside opposite
Castell's
= *P. dichotomiflorum* Michx.
Bull Run Mt. Va
Fauquier Co.
Hopeswell Gap, Va.
Oct. 9, 1938
H.A. Allard.

Panicum capillare L. Bull Run Mt., Va.
 7. Angerico Co.
 Oct. 9, 1938
 In open near
 5677 Castell's quarry at H.A. Allard
 Hagerell Gap
 (purple panicles)

5678 *Eupatorium aromaticum* L. ditto
 (1) Edge of woods at upper edge of high
 brown edge field near small oak.
 south of Hagerell Gap.
 a colony here: full bloom.

5679 *Eupatorium urticifolium* L. ditto
 (2) woods of red slate below
 High Point. Full bloom

5680 *Eragrostis capillaris* (L.) Nees. ditto
 (3) open ground near Castell's
 quarry (flagstone) - ie with # 5677.
 abundant: purple panicles.

5681 *Erechtites hieracifolia* (L.) Raf. ditto
 (1) abundant near above quarry
 - ie near # 5677: full bloom,
 and mixed with silvery hoppers also.
 very common.

5682 *Aster patens* Nutt. ditto
 (1) woods below High Point -
 near # 5679.
 abundant: full bloom: beautiful
 blue flowers on all ridges.

5683 *Gentiana villosa* L. ditto
 (2) woods below High Point
 near # 5679.
 full bloom; corolla greenish.

Aster undulatus L. Bull Run Mt., Va.
 7. Angerico Co.
 Oct. 9, 1938
 In thicket of old field below
 5684 High Point; abundant. H.A. Allard.
 (2)

Physalis peruviana Brot. ditto
 5685 In same waste field with
 (2) # 5684: abundant: fruit
 agreeable in flavor
 identified by C.V. Weston

5686 *Aster paniculatus* Lam. ditto
 (3) Roadside near Castell's
 abundant: full bloom; rays
 pale blue.

5687 *Muhlenbergia schreberi* Cmel. ditto
 (2) In damp small (open)
 see *Lechasia angustifolia* var. *guttata*
 grass - ie near old black walnut
 tree just west of Hagerell - Broad Run
 station highway: abundant.

5688 *Pinus rigida* forma *globosa* Mill. ditto
 (1) In old field south of Hagerell Gap.
 see Protas. I have named this
 forma *globosa*. A very beautiful
 ever growing, rounded tree.

5689 *Aster pringlei* L. ditto
 (1) open low ground near # 5688
 very abundant: full bloom.

5690 *Aster lateriflorus* (L.) Britton. ditto
 (3) In old field just south of
 Hagerell Gap near old Riley Cabin.
 Rays reddish pinkish; abundant.

Eupatorium annuatum L. Bull Run Mt. Va
 Edge of woods, Fanninger Co
 at upper limit Oct. 9, 1938
 H.G. Allard
 5691 of high brown edge, south of Haperell Gap.
 (3) near small oak field
 a large colony here: full bloom.

5692 *Solidago ulmifolia* Muhl.
 (1) In woods near # 5691 ditto
 full bloom.

5693 *Lespedeza virginica* (L.) Britton
 (1) In high brown edge field ditto
 beyond Riley cabin (1937)
 abundant in three stands of
A. scoparium here.

5694 *Lespedeza procumbens* (L.) Britton
 (1) Growing in same brown edge field with # 5693. ditto
 scattered here: less abundant
 than # 5693 as grass is taller.

5695 *Panicum gottbergeri* Nash.
 (1) In high brown edge field near # 5693. ditto
 thin stand of *Andropogon scoparium*.

5696 *Andropogon scoparium* Michx.
 (3) In old field near where
 Riley's lived 1937. (beyond Castello's.) ditto

5697 *Aster pilosus* var. *demutatus* Blake
 (2) In Castello's old field planted
 1936 - here it is
 Full bloom: very abundant.

Aster paniculatus Lam. Bull Run Mt. Va
 In Castello's old field Fanninger Co
 near # 5697: abundant. Oct. 9, 1938
 H.G. Allard
 5698 full bloom. south of Haperell Gap.
 (1)

5699 *Aster lateriflorus* (L.) Britton
 (2) In old field near Riley's cabin (1937): abundant here
 full bloom: rays reddish pinkish.

5700 *Aster paniculatus* Lam.
 (3) By roadside between
 Castello's & Omer's properties. ditto
 rays bluish: full bloom.

5701 *Aster pilosus* var. *demutatus* Blake ditto
 (1) Growing near # 5699.
 Very abundant.

5702 *Aster paniculatus* Lam.
 (1) By roadside near # 5700 ditto

5703 *Digitaria inchoerum* (Schreb.) Muhl.
 (1) In roadway descending
 past Castello's flagstone quarry.
 Spikes very little prominent. ditto

5704 *Vitis cordifolia* Michx.
 (2) on cliffs of High Point: ditto
 abundant: full bloom
 fruit black without bloom, very acid.
 since brood.

Vitis aestivalis Michx. Bull Run Mt., Va.
 woods below High Point, Tranquier Co.
 near Haverell Gap, south of Haverell Gap.
 5705 Broad Run Sta. highway, Oct. 9, 1938
 (1) fruit black with
 bloom agreeable.

#5606-4 #5707 collected Oct. 11, 1938 at Bull Run, Va.

5706 *Solidago bicolor* L. with deep yellow
 rays. This plant appeared in a
 progeny from a normal cream-colored
 plant collected on Big Cottle Mt., Tranquier Co., Va.
 1937. seed sown in flat outside 11-15-37. To soil house
 12-15-37. 1-12-38. To soil house 3-15. To soil house 5-4-38.
 12-15-37. 1-12-38. To soil house 3-15. To soil house 5-4-38.
 12-15-37. 1-12-38. To soil house 3-15. To soil house 5-4-38.

5707 *Solidago bicolor* L. with hyalinal cream-colored
 (1) rays. Sister plant in same progeny with
 #5706. seed sown in field just transplanted
 May 25, 1938. Pollen 9-22-38.
 This plant from Big Cottle is designated
 as A. L.

5708 *Solidago bicolor* with yellow rays.
 appearing in a progeny of a normal cream-
 colored plant of *S. bicolor* designated as (B) found
 on Big Cottle hill of 1937. Sown in flat, with frame 11-15-37
 To soil house 12-15-37. 1-12-38. To soil house 5-4-38.
 When weather 2 in. across. This was 14 hours day pollen 8-29-38
 at 23.2 in. Both parents A & B found on Big Cottle
 (Normal *S. bicolor* sput. ray color)

5709 a cream-colored plant of *S. bicolor*
 (1) appearing in a progeny from a plant
 (B) found on Big Cottle 1937. Sown
 etc. as for #5708. This plant (#5709) a
 sister plant to #5708. This a control
 Pollen 9-22-38 at 28 in. collected Oct. 13, 1938
 #5708 & #5709 given to J.F. Blake.

5710 *Solidago bicolor* L.
 (3) rays white.
 on crest of mt. along
 path, and down road road west of Marshall, Va.
 on west slope; abundant. Oct. 10, 1938
 H.A. Allard.

5711 *Solidago bicolor* L. a form
 (8) (rays yellow)
 abundant with #5710 on top of
 same road road on west slope, often
 intermingled closely.
 should be recognized as distinct from
 true *bicolor*.

Mass 3300
 on outcropping granitic
 ridges of west slope.

5712

(1)

Big Cottle Mt., Va.
 Tranquier Co.
 west of Marshall.
 Oct. 16, 1938.
 H.A. Allard

5713 *Solidago squarrosa* Muhl. ditto
 (2) on top along road road.
 Occasional; full bloom.
 Not found below top in heavy woods.

5714 *Eupatorium mticaefolius* Reid ditto
 (1) on wooded slope well up
 and on top; abundant; full bloom.

5715 *Chrysanthemum leucanthemum* Bull Run Mt., Va.
 In Castellae field near Haverell Gap
 (1) stone crusher site. A tiny
 seedling plant 3 1/2 in. tall, with
 head scarcely 1/2 in. across, 5-6 dim. disc
 rays; leaves very tiny; old full-sized
 leaves narrow; stem very thin; in flower; also narrow;
 (intermediate yellow).

5716 *Cladonia* (red heads)
 on soil on Castellae quarry ridge
 in chestnut oak woods - some
 Prince pines; abundant
 = *C. cristatella* f. *vestita* Tuck. Bull Run Mt., Va.
 Tranquier Co.
 Dec. 11, 1938
 south of Haverell Gap
 H.A. Allard.

5717 *Cladonia mitrula* f. *imbricatula* (Nyl.) Nain. ditto
 (cream-colored heads)
 on soil with #5716

5718 *Cladonia* sp.
 on soil with #5716 ditto
 sterile, not determinable

Cladonia strepsilis (Ach.) Nais.
 fine foliose type as in *C. afrodica*
 but bines; abundant
 Bull Run Mt., Va
 Fanger's Cr.
 south of Hagerell Gap
 Dec. 11, 1938
 H. G. Allard

5719 On soil on Castell's quarry
 abundant on bare humus ridge.
 H. G. Allard

5719 a: dry thin chestnut oak woods
 with some pine; dry, burned, xerous;
 much naked sandy soil
Cladonia caespiticia (Pers.) Thöerke.
Cladonia

5720 ditto
 (1) same loc. with #5719

= *C. cristatella* f. *Beauvoisii* (Del.) Nais.
 & *C. vestita* Tuck.

5721 *Cladonia*
 Growing with #5719 ditto
 (1)

5722 *Cladonia*
 (1) In same loc. with #5719 ditto
 = *C. pleurota* (Thöerke) Schaer.

5723 Lichens
 (1) on cliffs of Castell's quarry ridge;
 on rock surfaces; fine black dots
 abundant. ditto

5724 Lichens = *Umbilicaria caroliniana* Tuck.
 (1) black spots as above on
Umbilicaria pustulata; same
 type spots as 5723: on same cliffs
 5725C = *Polypodium juniperinum* Willd.
 ditto

5725 *Cladonia cristatella* f. *vestita* Tuck.
 (1) (red of thecia with very
 squamulose stipes)
 Growing with #5719 on soil
 5725a in moss *Polypodium*
 5725b = *C. pleurota* (Thöerke) Schaer, probably.

Lichen:
 on rocks - a prominent species
 in circular areas; color dark
 olive green; easily

5726 detached; thin soil
 (1) beneath.
 = *Amaptichia aquila* (Ach.) Mass.

Bull Run Mt., Va
 Fanger's Cr.
 south of Hagerell Gap
 on east of Castell's quarry
 ridge. 12-11-38
 H. G. Allard

5727 *Cladonia*
 5727B = *Lecanorhynchus glaucum* (L.) Schaer.
 (1) On soil of Castell's quarry
 ridge; abundant in chestnut oak

5727C = *C. macilenta* f. *styracella* (Ach.) Nais.
 5727a = *C. chlorophaea* (Thöerke) Spreng.
 5727b = *C. pleurota* (Thöerke) Schaer.

5728 Lichen
 (1) *Cladonia cristatella* f. *Beauvoisii* (Del.) Nais.
 On soil with #5727 and *C. vestita* Tuck. ditto

5729 *Cladonia caespiticia* (Pers.) Thöerke ditto
 (1) On soil with #5727.

5730 *Cladonia pleurota* (Thöerke) Schaer.
 (1) On soil with 5727 but not very distinct.
 reads like moss with it?

5730a = *C. cristatella* Tuck.

5731 *Cladonia*
 (1) On soil with #5727 ditto
 among moss. *Polypodium* =

5732 *Cladonia strepsilis* (Ach.) Nais.
 (1) On soil near #5727 ditto
 tiny irregular foliose growths
 like *afrodica* with peripheral brown apothecia

Cladonia

Bull Run Mt., Va

Frangier Co.

Dec. 11, 1938

H.A. Allard

On Castilla's quarry side

just S. of Hofsoll Gap.

5733B = *Dicranum* (L.) Hedw.

5733

On soil on Castilla's quarry

at top of old field stone ridge

rock under stone

where spring is

(1) In dry chestnut oak woods

C. macilenta f. *striatella* (Ach.) Wain.

5733A = *C. pleurota* (Therke) Schaer.

5734

Cladonia

heads light cream

(1) on soil with # 5733

C. mitrula f. *imbricatula* (Nyl.) Wain.

5735

Cladonia streptis (Ach.) Wain.

(1) on soil with # 5733

(Similar to *C. afodocarpa*; finer

abundant here.

5736

Cladonia macilenta f. *striatella* (Ach.) Wain.

(1) on soil with # 5733

5736A = *C. pleurota* (Therke) Schaer.

5737

Cladonia caespiticia (Pers.) Therke.

(1) on soil with # 5733

5738

Cladonia streptis (Ach.) Wain.

(1) on soil with 5733

Same, finer than *C. afodocarpa*;

olive green;

covers considerable areas of bare soil.

5739

Lichen

(1) on rock surfaces as small

black cups

abundant on Castilla's quarry cliffs

near # 5733

Lichen

Near foot of cliffs road

slope: yellowish lead gray

with pinkish and

around edge; close

adheres on rocks.

abundant.

5740

(1)

5741

Lichen

(small black dots on rocks)

(1) (on cliffs at end of High Point)

abundant.

5742

= *Cladonia caespiticia* (Pers.) Therke.

(1) On brickwork on tree

on Castilla's quarry ridge

5742A = *Physcia leana* (Ach.) Th.

5742B = " *adglutinata* (Therke) Th.

5743

Lichen = *Parmelia rudecta* Ach.

(1) On same tree with # 5742

5742C = *Caloplaca microphylla* (Therke) Hasse

5742D = *Physcia ectoidea* (Ach.) Nyl.

5742E = " *endotheca* (Hampe) Nyl.

5742F = " *stellaria* (L.) Nyl.

5744

Lichen

(1) On same tree with # 5742

= *Caloplaca microphylla* (Therke) Hasse

5745

Thin green mass

(1) in small crevices on cliff

of Castilla's quarry ridge.

Very deep green on soil

= *Gymnostomum rupestre* Schleich.

5746

Lichen

(1) On same tree with 5742

= *Cladonia caespiticia* (Pers.) Therke

Bull Run Mt., Va

Frangier Co.

High Point cliffs

Dec. 11, 1938.

H.A. Allard

ditto

ditto

ditto

ditto

ditto

Lichen
On bark of Hickory tree
on Castell's quarry cliffs
just S. of Hagerell Gap
5747

Bull Run Mt., Va
Fauquier Co
Dec. 11, 1938
H.A. Allard

(1) = *Physcia setosa* (Ach.) Nyl.
5747A = } Both same as above,
5747B = }

5748 Lichen = *Cladonia caespiticia* (Pers.) Tuckerm.
(1) On same tree - all well above ground
Fine green, close growth; abundant,

5749 Lichen = *Physcia lithotodes* Nyl.
(1) On same tree with # 5748.
dark olive grayish green ditto

5750 Moss
(1) On same tree with # 5748
= *Platygyrium repens* (Brid.) B. & S. ditto

5751 Lichen
(1) On same tree with # 5748 ditto

5752 *Cladonia caespiticia* (Pers.) Tuckerm.
(1) On bark of same tree
with # 5748; fine, dense, green
growth. ditto

5753 Lichen = *Parmelia nudecta* Ach.
(1) On Hickory bark on same tree
with # 5748; also on rocks, cliffs
etc. ditto

Lichen
small, greenish
5754 On Hickory tree bark
just S. of Hagerell Gap

Bull Run Mt., Va
Fauquier Co
Dec. 11, 1938
H.A. Allard

(1) on Castell's quarry ridge,
stone fine, high spring is, and
fossil stone crusher was.
= *Caloplaca microphylla* (Tuck.) Hasse.

5755 Lichens (several) ditto

(1) On same tree with # 5754
5755B = *Physcia stellaris* (L.) Nyl.
5755A = *Caloplaca microphylla* (Tuck.) Hasse.
= *Parmelia aurulenta* Tuck.

5756 Lichens ditto
(1) On bark of same tree
with # 5754
= *Cladonia caespiticia* (Pers.) Tuckerm.
(no podetia)

5757 *Cladonia* + moss ditto
(1) On soil in dry chestnut oak
woods on Castell's quarry ridge
South of Hagerell Gap.
5757a Red heads - Moss = *C. cristatella* f. *beauvoisii* (Del.) Tuckerm.
= *C. cristatella* f. *beauvoisii* (Del.) Tuckerm.
5758 *Cladonia* Tuckerm.
(1) on Moss e ditto

same loc. with # 5757
= *C. cristatella* f. *beauvoisii* (Del.) Tuckerm. & *C. vestita* Tuckerm.

5759 Lichen
Lead gray
(1) on same tree with # 5754
Two species: one smaller,
finer. ditto

5760 Liane-like lichen
(1) on cliffs near spring S. of
Hagerell Gap, not as common
on Castell's quarry ridge: not
common.

Umbilicaria pustulata Bull Run Mt., VA
 On Castilla's quarry cliffs: Tangier Co
 abundant throughout Smith of Robert C. of.
 5761 on all cliffs ~~on rocks on~~ Dec. 11, 1938
 (1) of Bull Run. On Castilla's H.A. Allard

5762 Mass
 Light yellowish green ditto
 (1) On soil on Castilla's quarry
 ridge in chestnut oak woods.
 abundant here etc.

5763 Liverwort ditto
 (1) On sloping rock surface
 with thin soil, forming extensive
 mats on rocks with lichens etc.
 Has encrusted these; washed off
 portions of mat on ground also.

5764 Mass
 (1) Hypnum - fern like: yellowish green. ditto
 On flat rocks on thin black soil layer
 at High Point: full of lichens
 making mats on rocks.

5765 Parella ditto
 (1) (Liverwort)
 Dark reddish brown mats easily
 lifting. slight soil beneath - on flat rocks
 at High Point cliffs: abundant,
 full of lichen succussions.)

5766 Mass
 (1) (Light yellowish green) ditto
 On soil with # 5762
 abundant on banks, a fine soil
 accumulated on rocks etc.

5767 Mass
 (1) Polytichum (dark green) ditto
 On soil in chestnut oak
 woods near # 5762:
 abundant.

Mass. Bull Run Mt., VA
 On flat rocks forming Dec. 11, 1938
 dense mats of pale H.A. Allard
 5768 growth, slight soil Tangier Co
 (1) beneath. On rocks
 of Castilla's Quarry Ridge.
 (abundant) (Full of lichens)
 Color rather yellowish green.)

5769 Cladonia ditto
 (1) Periderm, + moss
 Polytichum
 growing in chestnut oak woods
 on Castilla's Quarry ridge.
 on soil: abundant.

5770 Mass ditto
 (1) Completely encircling base of a
 small tree with its mat and
 just above the dense deciduous leaf mat
 which it cannot grow in. On Castilla's Ridge
 where it joins slope of High Point ridge south.

5771 Liverwort ditto
 (1) On rock surface (flat) near
 # 5770 on same ridge near
 High Point ridge.

5772 C = *Cladonia verticillata* (Hoffm.) Schaer (young plants) ditto
 5772 C = *Cladonia verticillata* (Hoffm.) Schaer (young plants) ditto
 5772 Cladonia (red apothecia) more slender than usual.

5772 (1) (Mass) = *C. cristatella* Tuck. The sterile ditto
 5772a On soil near # 5769 something like: don't find
 5772d = *Polytichum juniperinum* Willd.
 all abundant here
 C. cristatella f. *cyphophyllifera* Sandst. P.S. Beauvoisii

5773 Lichen on sandstone Bull Run Mt., VA
 (1) rocks. Tangier Co
 On High Point ridge on top. Dec. 18, 1938
 Cladonia caespiticia (Pers.) Thell. H.A. Allard.
 of Robert C. of.
 probably.

5774 Lichens several species ditto
 (1) On sandstone rocks
 on High Point ridge
 with # 5773

Lichens
 5775 several sterile of chert
 on sandstone oaks
 and interlocking
 on Costello's quarry
 ridge.
 Bull Run Mt., Va
 Fauquier Co
 Dec. 18, 1938
 H.A. Allard
 South of Haperell Gap.

Lichens
 5776 On rocks (sandstone)
 on outcrop on Costello's quarry
 ridge ditto

5777 *Cladonia furcata* f. *fragilissima* trans.
 On vertical rock faces (sandstone)
 in heavy oak-chestnut woods, far
 along on High Point ridge outcrops.
 Grows in pure colonies and so closely
 attached to rocks is very difficult to remove.
 (seemingly common) my first record here.

5778 *Cladonia neomyxina* (Ach.) Nyl.
 on sandstone rock faces on
 Costello's quarry ridge. ditto
 but doubtful.

5779 Mass = *Dicranum flavum* Hook
 growing in grassy places on
 sandstone outcrops on Costello's
 quarry ridge ditto

5780 *Cladonia cristatella* f. *beamanii* (Del.) Wain.
 and *f. vestita* Trunk.
 in old homestead field ditto
 N. of old mansion at foot of
 High Point Ridge, west slope.
 between the clumps.
 (apothecia red)

5781 *Cladonia piedmontensis* Merr.
 Gering with # 5780 ditto
 between clumps.
 5781a = *C. subcariosa* Nyl.

Cladonia piedmontensis
 Gering in some
 homestead field
 5782 with # 5780 between
 clumps
 5782 a = *C. subcariosa* Nyl.
 Bull Run Mt., Va
 Fauquier Co
 Dec. 18, 1938
 H.A. Allard
 South of Haperell Gap.
 (train) Robbins

5783 *Cladonia subcariosa* f. *evoluta* Trunk.
 (brown apothecia) and *f. squamulosa* Robbins
 growing with # 5780 between
 homestead clumps.

5784 *Cladonia cristatella* f. *beamanii* (Del.) Wain.
 with # 5780 - between
 clumps on dead stems
 of old clumps that have died
 (apothecia red) ditto

5785 *Cladonia verticillata* (Moorh.) f. *aggregata* (Del.) Wain.
 on soil ditto
 with # 5780 on soil
 between clumps.

5786 *Cladonia verticillata* f. *evoluta* Trunk.
 with # 5780, between
 clumps. ditto

5787 *Cladonia cristatella* f. *beamanii* (Del.) Wain.
 with # 5780 between
 clumps in old homestead
 field. ditto
 (apothecia red; podetia
 very squamulose)

5788 *Cladonia cristatella* f. *ochroleuca* Trunk.
 and *f. squamulosa* Robbins.
 (apothecia cream-colored, on
 fern red) freshly young
 with # 5780 between clumps. ditto

Cladonia subcariosa f. *evoluta* Bull Run Mt., Va
 in old browned edge field ^{and} *Frangier Cr*
 N. of old mansion
 5789 in woods, near slope Dec. 18, 1938
 below High Point. H.A. Allard
 (1) growing in interspaces between clumps
 (apothecia dark brown or black)

5790 *Cladonia cristatella* f. *hearniana* (Del.) *Wain*
 (1) apothecia red, and f. *vestita* *Trunk* ditto
 with # 5789 between clumps

5791 *Cladonia cristatella* f. *hearniana* (Del.) *Wain*
 (1) with # 5789 between clumps on soil and on dead
 basal stems and leafage of clumps
 that have died from overgrowing etc.
 5791a = *C. cristatella* f. *vestita* *Trunk*.

5792 *Cladonia cristatella* f. *scyphulifera* *Sandst*
 (1) (apothecia red) and f. *hearniana* (Del.) *Wain* ditto
 on basal stems etc. as for
 # 5789 and near it
 = *scyphulifera*

5793 *Cladonia verticillata* f. *evoluta* (Lth. Fr.) *Stein*
 (1) with # 5789 between clumps on soil ditto
 5793a = *C. cristatella* f. *vestita* *Trunk*.

5794 Moss
 (1) on sandstone rocks ditto
 on Castello's quarry ridge

5795 Moss - *Sicranum flavum* Hook
 (1) in crevice of cliffs of sandstone in heavy oak-chestnut
 woods on Castello's quarry cliffs
 near # 5794 ditto

Cladonia ? Bull Run Mt., Va
 (dark olive green) Frangier Cr
 on chestnut oak Dec. 18, 1938
 5796 tree bark (lining) H.A. Allard
 (1) on Castello's quarry ridge. South of Hoperell Gap.
 5796a = *C. caespiticia* (Pers.) Floerke, probably not *distinct*.
 5796 = *Physcia setosa* (Ach.) Nyl.

5797 *Cladonia verticillata* f. *evoluta* (Lth. Fr.) *Stein*
 (1) dry interspaces in browned edge field with # 5789
 on soil. ditto
 5797a = *C. subcariosa* f. *evoluta* (Lth. Fr.) *Stein* and
 f. *squamulosa* Robbins.

5798 Lichen = *Physcia setosa* (Ach.) Nyl. ditto
 (dark gray)
 (1) on lining chestnut oak tree bark
 on High Point Ridge in heavy
 oak-chestnut woods.

5799 Lichen = *Physcia setosa* (Ach.) Nyl. ditto
 (1) on bark of chestnut oak
 tree lining near # 5798
 5799a = *Physcia stellaris* (L.) Nyl.

5800 *Cladonia caespiticia* (Pers.) Floerke ditto
 (1) on rocks (sandstone)
 on Castello's quarry ridge in
 heavy oak-chestnut woods.

5801 Lichen (gray)
 5801a = *Pertusaria multipunctata* (Turn.) Nyl.
 (1) on bark of chestnut oak tree
 lining near # 5798 ditto

5802 Moss
 Lichen (black)
 on sandstone cliff near
 # 5800. ditto

Lichen
on bark of living
chestnut oak tree
5803 on High Point Ridge
(1) crest.

Pentusaria pertusa (L.) Tuck.

Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5804 *Cladonia borbonica* f. *apiculata* f. *minor*
(1) on outcropping sandstone cliffs on Castello's quarry ridge ditto

5805 Moss
(1) on sandstone cliffs
interj with # 5804 ditto

5806 Moss = *Dicranum flexuosum* Hook
(1) In crevice on low cliff
(sandstone) outcrops on
Castello's quarry ridge ditto

5807 Lichen *Pentusaria multipunctata* (Turn.) Nyl.
(1) (gray areas)
on bark of chestnut oak trees
on High Point Ridge; one of most
abundant lichens here. ditto

5808 Lichen
(1) on sandstone cliffs
on Castello's quarry ridge.
black and very common as
circular areas like
a soot or smudge. ditto

5809 Moss
(1) on sandstone rocks on
Castello's quarry ridge near
5808. ditto

Cladonia
on old brown edge field
with # 5789 on soil
5810 and on dead basal
(1) stems of dead
chinquapin
C. midmontensis f. *lepidifera* (Wain.) Rottm. Bull Run Mt. Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5811 Lichen
(1) on sandstone rocks
on High Point ridge.
(light green; *Parmelia*?) ditto

5812 Lichen - *Dermatocarpon*
(gray) *miniaturum*
(1) on flat rocks near
High Point cliffs in
heavy oak-chestnut woods. ditto

5813 *Cladonia* *maileta* Hoffm.
several 5813a = *C. cristatella* f. *scyphulifera*
(1) one red apothecia
one - slender, pointed " but not distinct line.
on soil on Castello's quarry ridge
in heavy oak-chestnut woods. ditto

5814 *Cladonia streptilis* (Ach.) Wain
(1) (very abundant covering large areas)
on soil in thin, open oak woods
on road near Antioch, Va., on
Triassic area ditto

5815 Lichen - *Physcia setosa* (Ach.) Nyl.
(1) (gray)
on bark of dead tree
on Castello's quarry ridge
in heavy oak-chestnut woods. ditto

5816 *Cladonia cristatella* f. *vestita* Tuck.
(1) (apothecia, red)
Podetia very squamulose.
on soil with # 5815 ditto

Mass

Bull Run Mt., Va

- on Castellaz quarry
ridge in crevices
on interlocking sandstone
diffs. in heavy
oak-chestnut woods
= *Symmatomum rufopurpureum* Schleicher.

Fauquier Co.,
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

- 5818 *Cladonia papillaria* S. molariformis ditto
(1) on soil in thin oak
woods on Triassic area
near Antioch, Va.
Prince William Co.

- 5819 *Cladonia bailliana* (Ach.) Nylb. ditto
(1) on soil in same woods
near # 5817

- 5820 Moss on
(1) sandstone rocks.
near # 5817 ditto

- 5821 Lichen
(1) moss
on sandstone cliffs
near # 5817 ditto

- 5822 *Cladonia paucispina* (Pers.) Thörlsch ditto
(1) on bark of living chestnut tree
on Castello's quarry ridge
near # 5817.

- 5823 Lichen, thin foliose, black. ditto
(1) on flat rocks near
5817.
Collema glaucescens Hoffm.

Cladonia

In old browned edge field

Bull Run Mt., Va

Fauquier Co.

Dec. 18, 1938

5824 with # 5789
between clumps.

H.A. Allard

South of Hagerell Gap.

- (1) *C. verticillata* S. exoluta (Th. Fr.) Sterner
5824a = *C. subcoriacea* Nylb. and
C. cristatella Tuck. Both scanty.

- 5825 *Cladonia* ditto
(1) on sandstone oak face
Padetia pointed, white: squamulae
rubbed off
On rocks (sandstone) on Castello's
quarry ridge near # 5817

- 5826 Lichen (leaves) ditto
(1) very common
on rocks interof near
5817

- 5827 Lichen = *Physcia setosa* (Ach.) Nylb. ditto
(1) on barks of chestnut oak
tree in heavy chestnut-oak
woods near # 5825

- 5827A: *Physcia setosa* (Ach.) Nylb.
5828 Moss
(1) long fern like fronds: very
beautiful
on sandstone rocks - in same ridge
near # 5825 ditto

- 5829 Moss ditto
(1) on sandstone rocks
on same ridge with # 5825

- 5830 Moss in rock crevices ditto
(1) on cliff = *Dicranum plenum* Hook
near # 5825

Lichen
On bark of chestnut tree
on High Point cliffs
5831 very abundant,
whitish.
H.A. Allard.
Bull Run Mt., Va.
Fauquier Co.
Dec. 18, 1938
south of Hofferell Gap

(1) = *Pertusaria marginata* Nyl.

5832 *Cladonia tenuis* (Floerke) Harm.
reindeer moss ditto
in low oak woods (thin)
on Triassic area near Antietam
Prince William Co.

5833 Moss
on flat rocks well along in ditto
oak-chestnut woods on Castello's
quarry ridge, on thin humus layers,
common.

5834 Moss ditto
on flat rock near # 5833

5835 Moss *Polytrichum* ditto
in crevice on low cliffs at
quarry on Castello's quarry ridge.

5836 *Cladonia* ditto
Reindeer moss.
In same old field of Iron-edge
S. of Hofferell Gap, in interstices between
clumps with # 5789: abundant
(pale green)

5837 *Leucobryum albidum* Bull Run Mt., Va.
Prince William Co.
Dec. 26, 1938
H.A. Allard
confusing with it. On soil on
ridge east of High Point Ridge S.
of Hofferell Gap 1/2 mile in thin
woods of oak, *Pinus rigida* etc.
5837A. *Leucobryum flaccidum* (L.) Schimp.

Cladonia papillaria Bull Run Mt., Va.
f. *molariformis* (Hoffm.) S. Prince William Co.
growing near H.A. Allard.
5838 # 5837
on crest of ridge (rocky, dry) mixed
with poor growth of oak chestnut, black jack,
Pinus rigida, *Pinus*, *Yucca*, *varillana*
etc.

5839 Moss: *Anomodon rostratus* (Hedw.) Schimp.
on dead wood on east slope ditto
of High Point Ridge near foot
in heavy oak-chestnut & tulip poplar
woods.

5840 *Cladonia squamosa* (Scop.) Hoffm. ditto
growing near # 5838
and *C. caespiticia* (Pers.) Floerke.

5841 *Cladonia clavulifera* F. subretia Robbins ditto
growing near # 5839
on roadside banks.

5842 Moss: *Grimmia pilifera* Beauv. ditto
on flat rock on slope
near # 5839 and *Grimmia pennsylvanica* Schrad.

5843 Moss: *Dicranum flagellare* Hedw. ditto
on bark foot of tree
near # 5839

5844 Moss: *Hypoleuca* ditto
on bark at base of tree
near # 5839
= *Lophocolea heterophylla* (Schrad.) Dunn.

Cladonia papillaria Bull. Rm. Mt., Va.
f. molariformis (Hoffm.) Schaer. Prince William Co.
 on soil on crest of dry, wooded ridge east of
 5845 High Point Ridge, Dec. 26, 1938
 H.A. Allard.
 (1) S. of Hapenell Gap $\frac{1}{2}$ mile
 (near # 5838)

5846 *Cladonia papillaria f. molariformis* ditto
 (1) on soil with # 5845 and *f. papillosa* (Hoffm.) Schaer.
 abundant.

5847 *Cladonia grayi* Mer. young plants. ditto
 (1) on soil on banks at foot of east slope of High Point Ridge,
 S. of Hapenell Gap $\frac{1}{2}$ mile in heavy oak-chestnut woods.

5848 *Cladonia papillaria* (Ehrh.) Hoffm. ditto
 (1) on soil near # 5845 and sterile squamules probably of *C. clavulifera* Wain.

5849 *Cladonia caespiticia* (Pers.) Floerke ditto
 (1) on bark on dead log near # 5847

5850 *Cladonia* ditto
 (1) on soil near # 5845

5851 *Cladonia squamosa* (Scop.) Hoffm. and *C. cristatella* Tuck. ditto
 (1) on soil near # 5845. Probably a mixture (a trace)

Cladonia squamosa (Scop.) Bull. Rm. Mt., Va.
 On old log Prince William Co.
 5852 near # 5845 Dec. 26, 1938
 H.A. Allard.
 (1) mixture probably this but none very distinctive.

5853 *Cladonia maculenta f. styriacella* (Ach.) Wain. ditto
 (1) on soil on bank near # 5847

5854 *Cladonia* ditto
 (1) on soil near # 5845
 (very abundant over large areas on bare soil.)

5855 *C. papillaria f. molariformis* (Hoffm.) Schaer. ditto
 (1) Moss = *Thelia asprella* (Schimp.) Sull. on bark of living tree at base near # 5847

5856 Moss ditto
 (1) Very dark green lobes adhering very closely to rock surface (sandstone), near # 5847.
 a true rock species, rarely fruiting here.

5857 *Cladonia subcariosa f. evoluta* Wain. ditto
 (1) near # 5845

5858 *Cladonia squamosa* (Scop.) Hoffm. ditto
 (1) on old chestnut log decaying near # 5845

Cladonia calycantha Del. Bull Run Mt., Va.
on soil in oak-chestnut Prince William Co.
woods on east slope of Dec. 26, 1938
5859 High Point Ridge telom H.A. Allard.
" High Point, $\frac{1}{2}$ mile S. of Hagerell Gap nearly. young plants probably.

5860 *Cladonia papillaria* f. *molariformis* (Hoffm.) Schaer ditto
" on dead log near # 5845
very squamulose.

5861 *Cladonia coniocraea* f. *ceratodes* (Flörke) Wain. ditto
" on soil on ridge near # 5845

5862 *Cladonia macilenta* f. *styracella* (Ach.) Wain. ditto
" on soil near # 5845

5863 *Cladonia* ditto
" on soil near # 5845

5864 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
" on soil near # 5845

5865 *Cladonia* ditto
" on soil near # 5859

Cladonia strepsilis (Ach.) Wain. Bull Run Mt., Va.
on soil near Prince William Co.
5866 # 5845 Dec. 26, 1938
" H.A. Allard.

5867 *Cladonia* ditto
" on soil with # 5845
" *C. papillaria* f. *molariformis* (Hoffm.) Schaer

5868 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
" on east slope near # 5859

5869 *Cladonia pleurota* (Flörke) Schaer. ditto
Near # 5859

5870 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
" on dead chestnut log with # 5845 (same as # 5860)

5871 *Cladonia papillaria* f. *molariformis* (Hoffm.) Schaer ditto
" on soil with # 5845
" *C. papillaria* f. *molariformis* (Hoffm.) Schaer

5872 *Cladonia grayi* Mer. ditto
" on soil near # 5845

- Cladonia. Bull Run Mt., Va.
 on soil on road side Prince William Co.,
 banks at foot of Dec. 26, 1938
 5873 High Point Ridge H.A. Allard
 (1) east slope, $\frac{1}{2}$ mile S. of Hagerell Gap,
 in oak - chestnut woods.
 = Cladonia strepsilis (Ach.) Vain. - thallus.
 The cup is pleurota (Floerke) Schaer.
- 5874 Cladonia
 (1) on soil in oak - chestnut
 woods on dry crest of ridge east of
 High Point Ridge $\frac{1}{2}$ mile S. of Hagerell Gap.
 - C. papillaria f. molariformis (Hoffm.) Schaer. (near # 5875)
 5875 = Cladonia papillaria f. papillosa ditto
 (1) Near # 5875
- 5876 Cladonia nidmontensis f. lepidifera ditto
 (1) On dead wood (log)
 same on ridge near # 5875
- 5877 Cladonia strepsilis (Ach.) Vain. ditto
 (1) on soil near # 5875
- 5878 Cladonia cristatella Tuck. ditto
 (1) (red apothecia)
 on dead wood near # 5875
 + C. squamosa (Scop.) Hoffm.
- 5879 Cladonia caespiticia (Pers.) Floerke ditto.
 (1) on dead wood and humus
 soil on east slope of High Point
 Ridge near # 5873
 a mixture but largely this.

- Cladonia Bull Run Mt., Va.
 with moss Polytrichum Prince William Co.,
 Dec. 26, 1938
 H.A. Allard.
- 5880
 (1) on soil near # 5874
- 5881 Peltigera horizontalis (Huds.) Barning ditto
 (1) on soil on rocks near
 # 5873
- 5882 Cladonia squamosa (Scop.) Hoffm. ditto
 (1) on soil near # 5874
- 5883 Moss ditto
 (1) On bark of tree on same
 side and near # 5874
- 5884 Cladonia coniocraea f. truncata (Floerke) Vain. ditto
 (1) very pointed, with whitish tips
 on soil on rocks
 near # 5874
- 5885 Cladonia mitrula f. intricatula ditto
 (1) on bare soil on same
 ridge with # 5874
- 5886 Cladonia coniocraea f. eratodes (Floerke) Vain. ditto
 (1) on soil in pine woods
 on ridge crest with # 5874 mostly.

Moss

at foot of tree
on ridge east of

Bull Run Mt., Va.
Prince William Co.

Dec. 26, 1938

H.A. Allard

5887 High Point Ridge

1/1 s. of Hoferell Gap $\frac{1}{2}$ mile
in oak-chestnut woods
very dry rocky ridge, an old burn
with little humus.

5888 *Cladonia squamosa* (Scop.) Hoffm. ditto
1/1 on soil near # 5887
Not very distinctive.

5889 *Cladonia Tothocolea heterophylla* (Scop.) Hoffm. ditto
1/1 Hepatic Moss
on bark of tree near # 5887
Mostly. Bull Run.

5890 *Cladonia* (a) *squamosa* (Scop.) Hoffm. ditto
1/1 on west slope of ridge below
differs on same ridge near
5887 - on old chestnut log.
same as # 5860 & 5870 (see)

5891 *Cladonia caespiticia* (Pers.) Thöerke ditto
1/1 on soil near # 5887

5892 *Cladonia*
1/1 (sharp-pointed, whitish tips) ditto
1/1/1 on bark of decayed
log (same as # 5884).

5893 *Cladonia squamosa* (Scop.) Hoffm. ditto
1/1 on soil, on same
ridge with # 5887

Cladonia

on same ridge

Bull Run Mt., Va.

Dec. 26, 1938

Prince William Co.

H.A. Allard

5894 near # 5887

1/1
= *C. squamosa* (Scop.) Hoffm. but not very
distinctive.

5895 *Cladonia grayi* Mes. ditto
1/1 on same ridge near
5887

5896 *Paeomyces rosens* Pers. ditto
1/1 bare soil on crest of castle's
grassy ridge near spring; very
abundant in woods where bare areas
of soil here.

5897 *Cladonia uniostraca* f. *cratodes* (Thöerke) Kärn. ditto
1/1 (sharp pointed apothecia with
whitish tips, same as # 5892)
5897a = *Cladonia mitrula* f. *imbricatula* (Hyl.) Kärn.
(young)

5898 *Cladonia*
1/1 (sharp pointed apothecia with
whitish tips, same as # 5892,
5897. = *C. coniostraca* f. *cratodes* (Thöerke) Kärn.
rain

5899 Lichen ditto
1/1 Pine colonies of small
black dots on sandstone
rocks, from very tiny to
several dots size of pin head
various abundant on ridge near # 5887

5900 Moss ditto
1/1 on thin soil on flat rocks on east
slope of High Point Ridge in heavy
oak-chestnut woods below High Point.
These mats lift off readily.

Lichen
Peltigera

Bull Run Mt., Va.
Prince William Co.
Dec. 26, 1938
H.A. Allard.

- 5901 on east slope of
High Point Ridge
below High Point
on soil in heavy oak - chestnut woods.
(abundant)

- 5902 Moss
on flat rocks near # 5901. ditto
forming large, pure mats easily
detached, often loosely lying
upon the rocks; color dark green.
(abundant)

- 5903 Moss
forming extensive mats (this)
on rocks, banks etc. ditto
woods near # 5901.
Light yellowish green; abundant

- 5904 Moss
Polytrichum
on flat rocks near # 5901. ditto
on banks, rotten wood, rocks forming
large, pure colonies; abundant.

- 5905 Moss *Hypnum*
on flat rocks near # 5901. ditto
abundant on banks etc. in woods;
color yellowish green; looks fern-like.
Very beautiful; abundant.

- 5906 Moss
Catharinaea?
on rocks near # 5901. ditto
color light shining green; leaves delicate.
abundant in dappled places, woods etc.

- 5907 Mosses
two
on dead wood on old logs ditto
in woods near # 5901.

Moss on dead log
in woods near # 5901

Bull Run Mt., Va.
Prince William Co.
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H.A. Allard.

- 5908 abundant.
||

- 5909 Moss
on dead stump in ditto
woods near # 5908.

- 5910 Moss
on decayed log in woods ditto
near # 5901

- 5911 *Cladonia*
one of reindeer mosses. ditto
on crest of ridge east of High Point
ridge 1/2 mi. S. of Hopeswell Gap. in
thin pine stand here = *P. nigra*,
ad *P. marginata* mostly

- 5912 *Cladonia rangiferina* ditto
Growing beside # 5911. Not
common in Bull Run Mt.; very
local. on pine duff and bark
soil here. This specimen was found
(My first record for Bull Run Mt.)

- 5913 *Cladonia*
(reindeer moss)
growing with # 5912 ditto
abundant.

- 5914 *Cladonia rangiferina* ditto
|| Growing with # 5912.

Cladonia bailletii (Ach.) Nyl. Bull Run Mt., Va
on rotten wood
on ridge N.E. of Beverly Mill Farm, 1, 1939
east of valley road. Prince William Co.
just N. of mill road. H.A. Allard.

5915 a thin pine stand
of *Pinus virginiana* here. Harker
lived not much bare soil covered with
lichens - *Cladonia*. Tiny red apothecia
at tip of recurved British scabiose podetia

5916 *Cladonia grayi* f. *squamulosa* Sandst. ditto
on soil near # 5915
cupa, very proliferous, very squamulose

5917 *Cladonia cristatella* Tuck. ditto
apothecia red
on soil with # 5915

5917A: *C. grayi* f. *squamulosa* Sandst. wain.

5918 *Cladonia maileuta* f. *styracella* (Ach.) K. & P. ditto
same sh as # 5915.
on old log with it
and *C. conivexa* (Floerke) Sandst. K. - and P.

5919 *Cladonia grayi* f. *squamulosa* Sandst. ditto
on soil with # 5915

5920 *Cladonia cristatella* Tuck. ditto
apothecia red
podetia very squamulose.
on humus soil near # 5915

5921 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin. ditto
verticillata
forma.
on soil near # 5915

Cladonia grayi Mer.
same cups, very
squamulose:

5922 same with brown apothecia
on soil near # 5915

Bull Run Mt., Va
January 1, 1939
Prince William Co
H.A. Allard

5923 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin. ditto
same cups, very squamulose
some with brown apothecia
with # 5915
and *C. grayi* f. *squamulosa* Sandst.

5924 *Cladonia squamosa* (Scop.) Huffman. ditto
verticillata but not distinctive.
near # 5915 on soil

5924a: *C. subcariosa* f. *squamulosa* Roffm.

5925 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin. ditto
same as # 5924
Near # 5915

5926 *Cladonia cristatella* f. *vestita* Tuck. ditto
apothecia red
podetia much branched above
growing near # 5915

5927 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin. ditto
apothecia brown
podetia very squamulose
Near # 5915

5927a: *C. cristatella* f. *vestita* Tuck. mostly

5928 *Cladonia*
podetia slender curved at tip
British maileuta f. *styracella* (Ach.) K. & P. ditto
Near # 5915

Cladonia streptilis (Ach.) Wain. Bull Run Mt., Va
on soil
In pine grove on
ridge just N. of mill road Prince William Co
ad. east of valley H.A. Allard.
5929 road here. Elm (E of Beverly Mill)
|| apothecia brown; podetia very squamulose

5930 *Cladonia streptilis* (Ach.) Wain. ditto
|| apothecia brown
(very squamulose)
on soil near # 5929.

5931 *Cladonia verticillata* f. *thylocephala* (Nyl.) Ols. ditto
|| very proliferous
apothecia brown
on soil near # 5929

5932 *Cladonia papillaria* f. *stipitata* (Floerke) Wain. ditto
|| on soil near # 5929

5933 *Cladonia baillaris* (Ach.) Nyl. f. *convexa* (Floerke) Sandst. P. and *Cladonia* ditto
|| on rotten wood near # 5929
← *convexa* (Floerke) Sandst. P. +

5934 *Cladonia mailecta* f. *styracella* (Ach.) Wain. ditto
|| on lumpy soil near # 5929

5935 *Cladonia streptilis* (Ach.) Wain. ditto
|| on soil near # 5929.

Cladonia clavilifera Bull Run Mt., Va
on lumpy soil
near # 5929
5936
||
f. *subvestita* Robbins

5937 *Cladonia clavilifera* f. *indianalis* Evans ditto
|| (apothecia brown)
on soil near # 5929
snatch

5938 *Cladonia subcariosa* Nyl. ditto
|| mostly *podocarpa*?
on soil near # 5929

5939 *Cladonia clavilifera* f. *subvestita* Robbins ditto
|| on soil near # 5929
|| apothecia brown
podetia very squamulose
5939A: *C. subcariosa* Nyl.

5940 Moss ditto
|| on dead wood near # 5929

5941 *Cladonia cristatella* f. *vestita* Nyl. ditto
|| apothecia red
podetia (some squamulose)
near # 5929
f. *beamanii* (P.)

5941A: *C. mailecta* f. *styracella* (Ach.) Wain.
5942 *Cladonia grayi* Mer. ditto
|| on soil near # 5929

Cladonia Bull Run Mt., Va
 En hime pure just N. of
 road (E) Jay January 1, 1939
 Prince William Co
 5943 Boserley Mill rd
 H.A. Allard
 E of valley road here.

(1) on soil
 = Cladonia chlorophaea f. lepidophylla (Thoenke) Sandst. (P)
 and C. grayi f. squamulosa Sandst.

5944 → Cladonia cristatella f. vestita Tuck. ditto
 (1) apothecia red

5944A) + one with cups
 podetia branched above (with red
 apothecia)

C. grayi f. simple Robbins
 5945 Cladonia grayi f. simple Robbins
 (1) on humus soil

near # 5943
 and C. grayi f. squamulosa Sandst.

5946 Cladonia chlorophaea f. carphophora (Thoenke) ditto
 (1) on humus soil with # 5943

5947 Cladonia verticillata f. phyllocephala (Thoenke) ditto
 (1) verticillata
 forma
 very squamulose
 Near # 5943 on soil.

5948 Cladonia grayi Mer. ditto
 (1) (cups)
 on humus soil near # 5943

5949 Cladonia cristatella f. vestita Tuck. ditto
 (1) podetia much branched above
 with tiny red apothecia,
 squamules also with tiny red
 apothecia.
 on soil near # 5943

Cladonia papillaria f. papillaria Bull Run Mt., Va
 January 1, 1939
 Prince William Co
 5950 on soil near # 5943
 H.A. Allard,

(1) molariformis (Hoffm.) Schaer.
 apothecia f. stipitata Thoenke.

5951 Cladonia verticillata f. phyllocephala (Thoenke) ditto
 (1) verticillata
 forma

Growing near # 5943
 5951A = C. grayi Mer.
 Moss

5952 lichenish colored
 (1) on dead wood near # 5943

5953 Cladonia verticillata (Hoffm.) Schaer. ditto
 (1) on soil near # 5943
 same sp. as # 5951
 young plants mostly

5954 Cladonia verticillata f. phyllocephala (Thoenke) ditto
 (1) very squamulose podetia
 same sp. as # 5951
 growing with # 5943
 mostly

5955 Cladonia grayi Mer. mostly ditto
 (1) same sp. as # 5951
 with # 5943
 also large stalks of C. verticillata f. phyllocephala (Thoenke) ditto
 older plants

5956 Cladonia grayi f. simple Robbins ditto
 (1) cups with tiny apothecia
 around edge
 Near # 5943
 5956A = C. grayi f. simple Robbins.
 abundant in extensive patches.

5957: *Cladonia verticillata* f. *apiculata* (Th. Fr.) Steen.
 5957a: " *verticillata* f. *phyllodes* (Th. Fr.) Steen.
 on pine grove on ridge east of valley
 near High Point
 Prince William Co
 January 1, 1939

5957 (E) of Berkeley Mill H.A. Allard.
 ad IV of mill road.

This extends to an old grave yard and
 back over a few hundred yards east
 of old cellar site where this new piece
 stood - old large black walnut tree.

5958 *Cladonia stipitata* f. *coralloidea* (Ach.) Vain.
 (1) (apothecia brown) ditto

near # 5957 on soil on High Point ridge
 near High Point in oak chestnut woods here
 (very squamulose)

5959 Moss

(1) on thin humus soil on rock
 shelf at High Point, north of Berkeley Mill
 1 1/2 mile. ditto

5960 Hepatic: *Sclafania nemorosa* (L.) Dum.

(1) on soil in oak-chestnut woods
 on east slope of High Point ridge
 near Berkeley Mill. ditto

5961 *Cladonia* ?

(1) crustose, yellowish green
 on same rock shelf with # 5959 ditto

5962 *Cladonia*
 (very squamulose)

(1) on soil with # 5960 ditto
 = *Cladonia stipitata* f. *coralloidea* (Ach.) Vain.

5963

Moss or hepatic

on soil in woods on High Point
 (1) ridge (east slope) near High Point
 north of Berkeley Mill 1 1/2 miles.
 = *Sclafania nemorosa* (L.) Dum. ditto

Cladonia

on soil with

5964 # 5959

(1)

Cladonia coniverea f. *ceratodes* (Floerke) Vain.

Bull Run Mt., Va

January 1, 1939

H.A. Allard

Prince William Co

Moss

5965 on rotten wood in oak
 chestnut woods near High Point ditto

5966

Cladonia rangiferina (L.) Reb. ditto

on rock shelf with # 5959

(1) My second record, first for High Point
 see # 5912

5967

Baeomyces (thallus)

+ liverwort or moss

(1)

= *Sclafania nemorosa* (L.) Dum.
 Near # 5960 ditto

5967a = *Portulacaria pustulata* (Ach.) Duby.

5968

Cladonia ? *Parmelia saxatilis* (L.) Ach. ditto

(1) on black humus soil
 with # 5959

5969

Moss
 (brownish)

(1) on dead log in oak-chestnut
 scrub near # 5963 - ditto

5970

Moss

(1) on dead wood on east slope
 of High Point ridge near # 5963

Cladonia

in pine grove on ridge
1/4 mile N. of road and
1/4 mile S. of valley road

5971

crossing trunk
1/4 mile S. of (Lind) of Renssley Mill

Cladonia chlorophaea f. *lepidophora* (Therke) Saccard.
(P+)

Bull Run Mt., Va

January 1, 1939

Prince William Co

H. G. Allard

5972

Cladonia

1/1 on soil with # 5971

= *C. grayi* f. *simplex* Robbins. (P-)

5972a = *C. nitridula* f. *intricata* (Nyl.) Wain.

5972b = *C. stipitata* f. *coralloidea* (Ach.) Wain.

5973

Cladonia appropinquata (Therke) Saccard.

5973p = *C. chlorophaea* (Therke) Saccard.

5973k = *C. chlorophaea* (Therke) Saccard.

5973a = *C. verticillata* f. *phyllocephala* (Plot.) Ohl.

5973d = *C. grayi* Mer. (P)

5974

Cladonia

on soil near # 5971

= *C. verticillata* f. *evoluta* (Th. Fr.) Stein.

5974a = " f. *evoluta* (Th.) Fr. Stein.

5975

Cladonia

1/1 on soil near # 5971

= *C. grayi* f. *simplex* Robbins. (P)

5976

Cladonia

1/1 5976b on soil near # 5971

= *C. verticillata* f. *phyllocephala* (Plot.) Ohl.

5976a = " P.P. f. *apotieta* (Ach.) Wain.

5977

Cladonia

1/1 on soil near # 5971

Cladonia

on soil near

5978

5971

1/1

Bull Run Mt., Va

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H. G. Allard

Prince William Co.

5979

Cladonia

1/1

on soil near # 5971

5980

Cladonia tenuis (Therke) Harm.

1/1

on soil near # 5971

5981

Cladonia

1/1

on soil near # 5971

5982

Cladonia

1/1

(apothecia of one sp. red)

Near # 5971

5983

Cladonia

1/1

on soil near # 5971

5984

Cladonia

1/1

on soil near # 5971

Cladonia Bull Run Mt., Va
 Empire gorge just north of railroad on
 ridge just east of Prince William Co
 5985 " of valley road crossing H.A. Allard
 Tracks below east of Beresley Mill.

5986 *Cladonia* ditto
 (1) On soil with # 5985

5987 *Cladonia* ditto
 (1) On soil near # 5985

5988 *Cladonia* ditto
 (1) On soil near # 5985

5989 *Cladonia* (apothecia red) ditto
 (1) on soil near # 5985

5990 *Cladonia* ditto
 (1) very squamulose
 on soil near # 5990

5991 *Cladonia* ditto
 (1) on soil near # 5985

Cladonia cristatellus Bull Run Mt., Va
 (apothecia red) January 1, 1939
 5992 Prince William Co
 H.A. Allard.
 (1) On soil near # 5985 and *S. leucosia* (Pol.) Wain
 and 5992 A = *C. cristatella* f. *vestita* Tuck
 5992 B = *C. chlorophaea* f. *simplex* (Hoffm.) Arn. P+

5993 *Cladonia* (the same with cups) ditto
 (1) on soil near # 5985

5994 *Cladonia caespiticia* (Pers.) Tuck ditto
 (1) on soil near # 5985
 5994 A = *C. apodocarpa* Robbins mostly.

5995 *Cladonia papillaria* f. *stipitata* Thierke ditto
 (1) on soil near # 5985

5996 *Cladonia* ditto
 (1) on soil near # 5985

5997 *Cladonia* ditto
 (1) on soil near # 5985

5998 *Cladonia* ditto
 (1) on soil near # 5985

Cladonia ♂
in pine woods on
ridge just north of
5999 on road above
valley road crosses
tracks just below (E.) of Beverly Mill and
east of valley road.
on soil

Bull Run Mt., Va
January 1, 1939
Prince William Co
H.A. Allard.

6000 *Cladonia*
red apothecia; podetia
very squamulose
on soil near # 5999 ditto

6001 *Cladonia*
on soil near # 5999 ditto

6002 *Cladonia*
on soil near # 5999 ditto

6003 *Cladonia*
on soil near # 5999 ditto

Moss
6004 in narrow vertical crevices ditto
on rock cliffs at High Point
just below highest outcrop - on shelf
here 5959 per.

6005 *Cladonia cristatella* f. *vestita* Tuck. and f. *hammii* (Del.) Vain.
apothecia red
on soil near # 5999 ditto

Cladonia dactylifera Bull Run Mt., Va
on soil near January 1, 1939
6006 # 5999 H.A. Allard
Prince William Co.
H.A. Robbins
6006A = *C. subcariosa* Nyl. not definite as to form.

6007 *Cladonia grayi* f. *simplex* Robbins ditto
on soil near # 5999
6007A = *C. verticillata* f. *evoluta* (Th. Fr.) Stein.
6007B = *C. chlorophaea* (T. Loebe) Spreng.

6008 on dead wood *Cladonia* ditto
near # 5999
C. macilenta f. *styracella* (Ach.) Vain.

6009 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin ditto
on soil near # 5999
6010 b = *C. verticillata* (Hoffm.) Schaer. not distinctive
6010 c = "*C. verticillata*" (Hoffm.) Schaer. "*C. verticillata*" (Hoffm.) Schaer.
6010 d = "*C. chlorophaea* f. *simplex* (Hoffm.) Vain." "*C. verticillata*" (Hoffm.) Schaer.
6010 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin ditto
on soil near # 5999 plus f. *evoluta* (Th. Fr.) Stein. and f. *phyllocephala* (Plot.) Olin.
6010A = *C. verticillata* f. *phyllocephala* (Plot.) Olin. small and resembling *C. calycantha* Del.
6011 *Cladonia* *calycantha* Del. ditto
on soil near # 5999

6012 *Cladonia*
on soil near # 5999 ditto

Cladonia 2 Bull Run Mt., Va
 2 pine woods on ridge just East of
 6013 of Mill road H.A. Allard
 where it crosses railroad kmr Prince William Co
 Berkeley Mill.
 on soil, near #

6014 Cladonia ditto
 (1) on soil near # 6013
 (apothecia brown)

6015 Cladonia ditto
 (1) on soil # 6013
 (red apothecia; very squamulose)

6016 Cladonia ditto
 (1) On rotten wood near # 6013

6017 Cladonia subcariosa f. squamulosa ditto
 (1) on soil near # 6013
 6017A = C. chlorophaea (Thoenke) Spreng. and C. subcariosa (Thoenke) Schaer (1 cup) and C. subcariosa (Thoenke) Schaer (1 cup) and C. subcariosa (Thoenke) Schaer (1 cup)
 6017B = C. grayi Mer.

6018 Cladonia grayi f. simplex Roffm. ditto
 (1) on soil near # 6013

6019 Cladonia verticillata (Hoffm.) Schaer ditto
 (apothecia red) distinctive as to form.
 on soil near # 6013

Cladonia Bull Run Mt., Va
 on soil near # 6013 H.A. Allard
 6020 January 1, 1939
 Prince William Co

6021 Cladonia boissiana (Ach. Nyl.) ditto
 (1) on soil near # 6013

6022 Cladonia verticillata (Hoffm.) Schaer ditto
 (1) (apothecia brown) not distinctive as to form.
 on soil near # 6013

6023 Cladonia mitrula f. intricatula (Nyl.) Roffm. ditto
 (1) (apothecia brown) on soil near # 6013

6024 Cladonia ditto
 (1) on soil near # 6013

6025 Moss ditto
 (1) on dead wood near # 6013

6026 Moss = Scapania nemorosoides (Pursh) Roffm. ditto
 (1) Hepatic. on soil near # 6013
 Cladonia Mixture of lads. not def. enough to det.

Cladonia
on soil in thin pine
wood on ridge N.E. of
Beverly Mill
6027 near railroad
"1 this just east of valley road leading to
Hoffmelt Camp below Castello's

Bull Run Mt., Va
Prince William Co
January 1, 1939
H.A. Allard

6028 *Cladonia bailloni* (Ach.) Wgt. & *Podetia* narrow
"1 on thin soil near # 6027 ditto
(and *C. caespiticia* (Pers.) Thoenke. mostly)

6029 Moss
"1 on soil and rotten wood ditto
with # 6027

6030 *Cladonia verticillata* (Hoffm.) Schaer. ditto
"1 on soil near # 6027 distinctive at to form.

6031 *Cladonia*
"1 on soil near # 6027 ditto

6032 *Cladonia*
"1 on soil near # 6027 ditto

Cladonia uncialis (L.) Web.
~~resembles moss~~
6033 (cheek-like, low, compact) ditto
"1 on rock shelf at High Point
just below highest outcrop.
(with # 5959) = *Cladonia uncialis* (L.) Web.
appears different from others in Bull Run Mt.,

Peltigera (lichen)
on ground and rotten
wood at base of
6034 stump on High Point
"1 ridge near High Point

Bull Run Mt., Va
Prince William Co
January 1, 1939
H.A. Allard

6035 Lichen
"1 Large, lead gray. on
old stump. very abundant
on trees, stumps, rocks etc.
near # 6034. ditto

6036 dense growing dark green mass
"1 on sand stone boulder surface ditto
near ground in large, pure colonies.
can't be detached. mass in strong
competition with the yellowish green
lichen # 6037 a series of
6037 which had actually overgrown the moss
1 c.m. at point of contact, preventing its spread,

"1 same moss as # 6036, with
lichen competing with it = sp. of ditto
This lichen common on rocks, trees etc.

6038 Rock lichens
"1 on sand stone & quartzites (Beverton,
Cambrian) at High Point, Tranquill Co
North of Beverly Mill 1 1/2 miles. ditto

6039 Rock lichens
"1 on same cliffs with # 6038 ditto

6040 on rock lichens
"1 on same cliffs with # 6038 ditto

Rock lichens
on sandstones and
quartzites (Wesertown,
Cambrian) at
High Point N. of
Beverly Mill 1 1/2 miles

Bull Run Mt. Va
Fauquier Co
January 1, 1939
H.A. Allard

6042 Rock lichens
|| growing with # 6041 ditto

6043 Rock lichens
|| Growing with # 6041 ditto

6044 Rock lichens
|| Growing with # 6041 ditto

6045 Rock lichens
|| Growing with # 6041 ditto

6046 Rock lichen
|| a close, black species in
patches, appearing like smut
patches on the rocks: very abundant
near # 6041 ditto

6047 Moss: silvery color
|| In crevices of rock outcrops
directly in front of Beverly Mill
across railroad on cut here. ditto

Moss
In rock crevice
near # 6047
6048
||

Bull Run Mt., Va
Fauquier Co
January 1, 1939
H.A. Allard

6049 Moss
(green)
|| In same place near # 6047 ditto

6050 Moss
|| In same place near # 6047 ditto

6051 Moss
|| In rock crevices near
6047 ditto

6052 Moss
|| In rock crevices near
6047 ditto

6053 Moss
|| In rock crevices near #
6047 ditto

6054 Moss
|| In rock crevices opposite
Beverly Mill with # 6047 ditto

Moss
on soil in thin pine
woods on ridge N.E. of
Beverly Mill, near
6055 railroad & just
East of valley road to Haterell Gap.
Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co

Moss and liverwort.
6056 on moist soil of brook
bank below little cemetery
where creek goes in, i.e.
N.E. of Beverly 1 mile
ditto

6057 Moss
on same brook bank
near #6056.
very beautiful, fern like, large,
ditto

6058 Moss
on same brook bank
with #6057
ditto

6059 Moss
on soil in pine woods
with #6055
Leucobryum albidum
ditto

6060 Moss
on dead wood near
#6055
ditto

6061 Moss
on dead wood near #6055
ditto

Moss
Leucobryum albidum
6062 on soil and
dead wood near #6055.
Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co

Moss
on soil in thin pine
woods on ridge N.E. of
Beverly Mill, near
6055 railroad & just
East of valley road to Haterell Gap.
Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co

6065e = *Cladonia squamosa* f. *phyllotoda* (Retzsch.) Main
6065f = " " " " " "
6065g = " " " " " "

Moss
Leucobryum albidum Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co
6062 on soil and
(1) dead wood near # 6055.
abundant here in pines

6063 *Cladonia* (reindeer moss) ditto
(1) common in pine woods
near # 6055; a common species
(here)

6064 Moss ditto
(1) *Leucobryum albidum*
In crevices on cliffs at High Point,
often completely filling these with
this moss on nearly vertical walls
so a line of green down the rock face.

6065 *Cladonia squamosa* (Scop.) Hoffm. Not distinct as to form.
(18) on damp rocks
sloping to horizontal
loosely on humus, soil, H.G. Allard,
at foot of High Point cliff, 1 mile S. of Haterell Gap.
dense mats. Podetia slender, half at
tip. 6065g = *C. squamosa* (Scop.) Hoffm.
Not distinct as to form.

6066 ditto
(1) *Cladonia* same as 6065, but "C. squamosa" f. *donnellii* (Main)
growing over and completely
smothering the moss with a
dense mat of squamules.
for 3 cm. moss completely hidden,
killed. = *Cladonia squamosa* (Scop.) Hoffm.

6067 ditto
(2) Lichen (crustose)
on soil on rock shelf below
High Point cliffs

6068 ditto
(1) *Cladonia squamosa* (Scop.) Hoffm. Not distinct
as to form.
on humus soil on flat or sloping
rocks at foot of High Point cliffs,
near # 6067

Lichen
on underside of
rock shelf at High Point
6069 cliffs: color yellow.
Bull Run Mt., Va
Fauquier Co
January 8, 1939
H.A. Allard

6070 *Cladonia didyma* f. *subulata* p. ditto
|| slender, whitish, pointed, sorediose.
On dead wood on High Point
cliffs near # 6069

6071 *Cladonia maculenta* f. *stygia* (Ach.) H. ditto
|| On soil on dead wood
at High Point Cliffs. very sorediose

6072 Lichen. Small clustered
|| greenish, fruticose
on vertical quartz rocks
on other part of High Point cliffs.
Not abundant here: *Parmelia farinacea* (L.) Ach.

6073 on stems of *Kalmia latifolia*
|| at High Point cliffs. ditto
a bluish gray *Parmelia*?
(*Neophromopsis ilicis* (Ach.) H. var. 6072. (Sent to Evans by mistake)

6074 Lichen
|| On soil on shelf at foot of
High Point Cliffs.
crustose.

6075 Moss
|| on rotten wood at
High Point Cliffs. ditto

Moss.
on rocks - adhering
too tightly to remove -
6076 on High Point cliffs
Bull Run Mt., Va
January 8, 1939
Fauquier Co.,
H.A. Allard

6077 *Cladonia* on rock
|| adhering too tightly to rocks
to remove - on vertical rock faces
at High Point cliffs.
Cladonia grayi f. *aberrans* Asakawa
(contains lactic acid but is P.)

6078
|| Bop of Rock lichens from
High Point cliffs ditto

6079 Rock lichens from High Point cliffs.
|| The dark one on vertical
faces of pure quartz rocks, forming
small jagged patches about the
size of a dollar or smaller ditto

6080 Rock lichens (top) from
|| High Point cliffs. ditto

6081 Rock lichens (top)
|| From High Point cliffs. ditto

6082 Moss
|| on dead wood in woods
at High Point Cliffs. ditto

Mass
On soil in Castell's
field high up on
6083 slope just west of
the flag stone growing
and spring at Haterell Caf.
Bull Run Mt. Va
January 8, 1939
Fauquier Co.,
H.A. Allard

6084 Moss
On dead log in oak-chestnut
woods at High Point Cliffs. ditto

6085 Moss
On soil near # 6083, in
same field. ditto

6086 Moss
On thin soil on rock
at High Point Cliffs ditto

6087 Moss
On thin humus soil on
rock at High Point Cliffs. ditto

6088 Moss
On thin humus soil on
rock at High Point Cliffs ditto

6089 *Cladonia cristatella* f. *vestita* Tuck. mostly
on soil in thin second growth
with woods. In woods west slope
below High Point just
west of barn and old
monastery near Haterell. to
Broad Run roadway, Fauquier Co.
Bull Run Mt. Va
January 29, 1939
H.A. Allard

Cladonia streptilia (Ach.)
on the banks at base of
tree
6090
near # 6089.
Bull Run Mt. Va
Fauquier Co
H.A. Allard
Jan. 29, 1939
In woods, west slope
below High Point.
Uncertain.

6091 *Cladonia* sp. (not enough to test) ditto
on soil near # 6089
apothecia red; podetia very squamulose

6092 *Cladonia subcariosa* f. *squamulosa* Robbins. ditto
apothecia brown
on soil near # 6089

6093 *Cladonia subcariosa* f. *squamulosa* Robbins. ditto
on soil near # 6089

6094 *Cladonia subcariosa* f. *evoluta* main ditto
apothecia brown
on soil with # 6089

6095 Lichen
fruticose - rather small
on rocks at High Point. ditto

6096 *Gyrophora vellea*. 3 ditto
on rocks at High Point
competing with *Imbricaria pustulata*

~~Lichen~~
Imbricaria punctulata

Bull Run Mt., Va.
Fauquier Co.
road slope below High Point
January 29, 1939
H.A. Allard.

- 6097 On rocks near
High Point - north
31 end: very abundant,
competing with *Gyrophora pallida* here.

6098

Moss

- 11 On rocks crevices and seams
on limestone boulder in rocky wet
slope below High Point. Dark
dark green. A nice species

ditto

6099

Cladonia

11

(reindeer moss)

- on soil in thin, open young
second growth woods at foot of
High Point, west slope just east of
old barn & mansion -

ditto

6100

Grimmia

11

Moss.

- on flat rocks near # 6098

ditto

6101

Moss

11

- on rocks in woods near
6098

ditto

6102

Moss

11

- on bark, base of tree
near # 6098

ditto

6103

Moss

11

- on soil & rocks, dead
wood etc near # 6098.

ditto

January 29, 1939. To Hagerell Gap, Bull Run Mt., Va.
Rain all day from 10 A.M. on. Snow
at 2 P.M.: rain fall heavy then.

all higher plants other than Bull
Run in this book entered under
proper families with collection
numbers, (see large book naming
plants and copied by Mrs. E.C. Leonard
#42 4872 - 6471 inc (h 150)

This done July 19, 1940.
all higher plants of Bull Run area
entered under families with numbers to
end of this field collection book.

all higher plants in this book
other than Bull Run card indexed
to end March 1941.

all higher plants - i.e. all green
plants, ferns, lycophytes etc. except
lichens, anemones and hepatics from
Bull Run area card indexed and
checked March 11, 1941.

2 symbol = checked.

No lichens, fungi, mosses or liverworts
checked 2 on card indexed March 11,
1941.

