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This material entered out of
date order #4896 - Cetaria islandica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. Lawitzky.

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.
Book 4. 1938-1939.
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 slopes of " " 5, 1938
" to top of Mt. Katahdin " 6, 1938.
" Mt. Washington via Tuckerman Ravine July 11, 1938
" Mt. Washington, N.H. " Tuckerman 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 area 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 in Carex ovales authority
{ see #4779

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

Manufactured by
U. S. Government Printing Office
Pinus rigida forma globosa = #5688
(Oct. 9, 1938)

See #4895, 4896, 4897
collected under date of May 12, 1938
on Short Mountain, Massachusetts;
Mr. W. W. Diehl on this trip.
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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
areas. He has recently come into the
Division of Plant Exploration and
Introduction as Associate Botanist.
He is a very likeable and confident
bellow 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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wood stock. August 14, 1938 drive to old
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of collecting
spring at
alt. about 3800 ft.
authority

of (north)

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

Manufactured by
U. S. Government Printing Office

Pinus rigida forma *globosa* = #5688
(Oct. 9, 1938)

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

on #9887: *Lorfeoliza stipulacea* Moench
Mr cold field wet slope near Mrs. Coz's.

Thru #9888 *Aralypha gracilens* Gray
da near brook - wet slope below White Rocks.

#9905 *Bartonia virginica* (L.) BSP
jun on valley road on bank north of
Gap Mrs. Ashby's

Mo # *Monotropa hypopitys* var. *rubra* (Torr.) Torr.
al in woods near #9905

To add these to my list when pub.

Now about *Digitaria bififormis* ?
~~*Syntherisma*~~

Rubus 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. *brevitricata* (Del.) Frane
and " " *rigida* Del. according to
sandstede,
on Little Stony Creek. Dent's Hole Mt.

#6066 *Cladonia squamosa* f. *dasariella* Wain.
Side. Sandstede - 4 from Bull Run Mt.

#5054 = *Cetraria islandica*.

See 4784 - water plant at
Berkeley Mill.

Pure white *Prunella vulgaris*
= #5353.

Carex virescens Michx.
4767 wooded slope at
(3) shooting spring,
above Berkeley Mill
(Ident by F. J. Hermann.)

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

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

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

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

4771 *Carex roxo* Schkuhr
(1) Flood plain on Broad Run
above Berkeley Mill in moist,
shaded woods here ditto
Ident. by F. J. Hermann e

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

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

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

4774 On flood plain
(1) of Broad Run
above Berkeley Mill. e
= *Tithymalus obtusatus* (Pursh.) K. P. Garcke.

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

4776 ~~*Carex flanda* Deney~~
Gramineae
(2) Really *Poa trivialis* L. on specimen ditto
Growing with # 4774: abundant. e
(Ident by F. J. Hermann.)

4777 *Carex flanda* Deney ditto
(1) Growing with # 4774 e
and *Carex flandra* (Kuhn) Michx. Ident. by F. J. Hermann.
= 4777A " " " "

4778 *Juncus* ditto
also (1) on Broad Run with # 4774 e
Juncus acuminatus Michx. *Carex flanda* Deney
= 4778A Ident. by F. J. Hermann

4779 Cyperaceae 4778B
(1) Growing with # 4774 ditto
Carex flanda Deney e
Ident. by F. J. Hermann

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

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

4782 *Carex laevirostrata* (Kük.) Mark 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.
4785 May first record of this in Bull Run area.
Note washed branches. Pool filled
with algal scum.
|| *Graminea fastuosa obtusa* Spreng.
Growing near # 4781 ditto e

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

4787 *Conoclophora* ditto
|| *Hepaticae*.
On wet bank on Broad Run
just above Beverley Mill.
Juncus oviflorus (L.) Steud. e

Moss Bull Run Mt., Va.
on wet soil beside Broad Run Thoroughfare Gap.
4788 just above Beverley Mill Fauquier Co
|| May 22, 1938
H. A. Allard

4789 *Hepaticae* 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. Terraciously
held on rocks, or practically at water line.

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

(2) *Carex annexata* Bickn ditto
In meadow north of Broad Run
station at left of rail road, where
cooling station stands and R. R. bridge
sharply recedes toward The Plains.
all plants B. ident. by Hermann. e

4794 *Carex annexata* Bickn 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-bag station is
and rail road turns sharply
west to The Plains. (Ident. by F. J. Hermann) e

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

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

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

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

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

4800 *Carex gracilescens* Steud. (not in Michx.)
(3) In same bog with # 4795
(all from clump i) and
(Ident. by F. J. Hermann) = 4800A ditto e

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

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

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

4803 *Sisyrinchium graminoides* Richn. ditto
(2) Growing with # 4802;
abundant, full bloom. e

4804 *Carex lasiocarpa* (Kirkenth.) Mack. ditto
(2) Growing with # 4802
(Ident. by F. J. Hermann) e

4805 *Glyceria striata* (Lam.) Hitchc. & ditto
(1) Gramineae
Growing in snail 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) ditto e

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

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

Carex gracilescens Steud. Bull Run Mt., Va.
In bog just north of Thoroughfare Gap.
Broad Run station Fannquier Co.
4809 and between highway May 22, 1938
to Hagerell Gap and H.A. Allard
railroad.
(not typical)
(Ident. by F. J. Hermann)

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

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

4812 *Carex gracilescens* Steud. (not typical) ditto
(1) Growing with # 4809
(Ident. by F. J. Hermann)

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

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

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

Carex laeviroginata (Kühn) Mark. Bull Run Mt., Va.
all from one clump E. K. Thoroughfare Gap
Fannquier Co.
4816 Growing in bog with # 4809 May 22, 1938
(Ident. by F. J. Hermann)

4817 *Carex lurida* Wahl. (immature) ditto
(2) Growing with # 4809
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* (Rydb.) Rydb. ditto
(2) On wooded bank by Hagerell
Gap road, west slope just north of
Broad Run station.
full bloom; attractive.

4820 *Lonicera japonica* Thunb. ditto
(1) Road side at Broad Run station
west slope; flowers reddish pinkish,
as compared with those often pure white.
abundant; full bloom in thickets.

4821 *Camelina microparva* Andry. ditto
(2) Railroad banks just above
Berkeley Mill; abundant here; passing.

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

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 fasci* Poir. all arts garden
(4) In rock 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.
(4) Roadside near rail cross Arlington Co.
brick yard; bull bloom. May 25, 1938.
Rare in this area. H.A. Allard. e

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

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

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

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

4831 Mass. ditto
(1) a solid cover on dry shales
where a huge hole made by prospectors
for coal is back; in heavy woods. e

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

4833 Lichen ditto
(1) *Peltigera* 2
silver gray. Low down on north slope
on soil; abundant here. Have never met 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) e

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

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

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

4838 Moss Trail down Mill Mt. Va
(1) wood road along Shenandoah Co.
Little Stony Creek May 29, 1938
well above Coffelt's H.A. Allard
on soil a brilliant, scintillant yellowish green.
with a silky, silvery sheen & very beautiful.
4839 *Carex granulata* Michx. Shenandoah Mt. Va
(3) all from clump A near Shenandoah Co.
at parking place May 29, 1938
below Hines' house. H.A. Allard
(Ident. by F. J. Hermann)

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

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

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

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

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

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

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

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

4848 Mint - *Blaphilia ciliata* Raf. ditto
(4) Purple flowered; By roadside
near Manassas on Valley Pike; ditto
only one colony seen.
very showy in grass; stools

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

4850 Moss ditto
(1) on rocks in same ravine
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 in mosses.

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

4853 *Carex cephalophora* Muhl.
" on bank near Mill Mt. in woods
(Ident. by F. J. Hermann)
On trail down to Mr. Coffelt's along
Little Stony Creek.
Shenandoah Co.
May 29, 1938
H.A. Allard

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.)

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 aestivalis* Schumacher.
" Growing in wet soil
near # 4856. ditto
(Ident. by F. J. Hermann)

Carex sofaria Schumacher. Down 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 incompta* Bickn.
" Growing in road side ditto
near # 4858
From same clump A.
(Ident. by F. J. Hermann)

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

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
4865 wooded ravine
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 into deep spaces
between the rocks.
(1) Moss.
on rocks in same ravine
with X 4865 ditto

4868 *Carex hirsutella* Mark.
(1) On wood road just
above Mrs. Coffelt's on trail Little Stony Creek,
to Mill Mt. ditto
Identified by F. J. Hermann
Mill Mt., Va
on trail along
Little Stony Creek,
Shenandoah Co.
May 28, 1938
H.A. Allard

4869 *Veronica americana* Schwein.
(1) By brook just above Mrs. Coffelt's
(flower blue) ditto

4870 *Mitchella repens* L.
(1) On bank abundant by
wood road just above Mrs. Coffelt's
on Little Stony Creek.
buds brown red in fruit ditto

4871 *Asplenium montanum* Willd.
(1) on ledge about 1 mile above Mrs. 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.
Roman 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 ditto

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

4875 *Medicago sativa* L.
(4) 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) ditto

4877 Grass
(1) Growing beside X 4876
(not abundant here), full flower,
Phalaris arundinacea L. ditto

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

~~Bromus~~ *Festuca elatior* L
Growing by
4879 roadside, abundant, May 30, 1938
(2) near stone bridge HA, Allard
near Columbia Turnpike,
full bloom. e

4880 *Scirpus validus* Vahl.
(2) Growing in mud and
water near # 4876 near
(one clump) Columbia Turnpike.
(Ident. by F. J. Hermann) ditto e

4881 *Carex hirsutella* Mack.
(3) wet spot by roadside opposite
(N.) of Three Mile Mt., Va.
(all from one clump)
(Ident. by F. J. Hermann) ditto e

4882 *Scirpus lineatus* Michx.
(10) Growing in same wet spot
beside # 4881.
(all from one clump.)
(Ident. by F. J. Hermann) ditto e

4883 *Panicum boscii* Poir.
(3) On steep wooded rocky slope
across Little Stony Creek from Coffelt's
(all from one clump) ditto e

4884 *Panicum huachucae* Ashe
(3) Growing below Hines near Little
Stony Creek where we park car e

4885 *Arrhenatherum elatius* (L.) Muhl.
(4) Growing by roadside near
4884: very abundant here;
full bloom. Reflects a silvery light. e

Carex torta Boott
Beside Little Stony
Creek where we park
4886 car below Hines' HA, Allard
house
(Ident. by F. J. Hermann) e

4887 *Carex muhlenbergii* var. *enervis* Boott
(1) Growing in drier ground
close to # 4886
(Ident. by F. J. Hermann) ditto e
C. *ephalophora* Muhl.

4888 *Lieroot*
(1) On rocks in very
heavily wooded damp
ravine; abundant
here. Three Mile Mt. Va.
May 28, 1938
Shenandoah Co.
HA, Allard
north slope. e

4889 Moss
(1) Very dark green mats on
rocks with # 4888 ditto
abundant here.

4890 Moss
(1) On rocks in same ravine
with # 4888: abundant.
a lusterless but clear green. ditto

4891 Moss
(1) Growing on rocks near # 4888 ditto

4892 Moss
(1) Growing on rocks with # 4888 ditto

Mass
on rocks in damp
4893 moded variegated
with slope, leafy
very 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 Edinburgh, 10 miles
house where we park 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* short
in shale at place
4896 *Cetraria islandica* Massanutten Range
May 12, 1938
H.A. Allard
This lichen very abundant among the
Cetraria islandica
with # 4895

4897 *Cladonia*
(1) cup-shaped
growing on shale with # 4895
(Not in order of collection)
ditto

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
with mature seed heads; very showy
ditto

4899 *Tragopogon dubius* L.
(5) From near # 4898, sub. sk. major (young) Volcan
all yellow flowered; heads on 3 plants
13; on two 12; some at later than the
purple; just maturing seed; abundant
as purple.

Euphorbia lathyris (L.) Mill Great Valley of Va.
Tithymalus Shenandoah Co
By roadside near May 30, 1938
4900 Hines where we
park car on
(3) Little Stony Creek; abundant here.
e

4901 *Alliaria canadensis* L. ditto
(2) Roadside near where we
park car not far from # 4900
in flower and producing bulbils. e

4902 *Gnaglossum officinale* L. ditto
(3) In pasture back of Coffelt
at foot of Little Stony Creek. e
(abundant: full bloom)

4903 *Onoclea sensibilis* (L.) Presl.
(1) on grounds of agricultural
in Washington, D.C. at
14 and Independence Ave.
South Bldg. H.A. Allard
June 3, 1938

4904 *Potentilla recta* L. Bull Run Mt. Va.
(1) Broadside of edge of great
field between Haysmarket June 5, 1938
and right turn west leading to Antioch. abundant: full bloom here.
H.A. Allard

4905 *Holcus lanatus* L. Bull Run Mt. Va.
(7) abundant in red field and
pasture and by roadside near
Antioch on right as we leave
Haysmarket to Antioch route from
My first record for Bull Run area
Not here last year. or very scarce
Prince William Co
Triassic area
June 5, 1938
H.A. Allard

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

Carex digitalis Willd.
woods next 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 next slope, in deciduous
woods.

ditto

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

ditto.

4912 *Carex gracilescens* Steud.
(4) In pasture across from High Point
(next) in Plains area where *Malus glaucescens*
Rehder grows.
(all from one clump) abundant.
(Ident. by F. J. Hermann)

ditto

4913 *Carex muhlenbergii* 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 where
Malus glaucescens Rehder grows.
on Plains area west of High Point.
(Ident. by F. J. Hermann)

ditto

4916 *Carex luschii* 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

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

4935
" Labiateae.
In the pine white oak
woods west of High Point.
= *Parietaria pennsylvanica* Muhl. ditto
e

4937 *Carex cephalophora* Muhl. ditto
121 Growing with # 4935
(Ident. by F. J. Hermann) e

4938 *Carex muhlbergii* var. *enervis* Boott. ditto
" Growing with # 4935
(Ident. by F. J. Hermann) e

4939 *Carex muhlbergii* var. *enervis* Boott. ditto
" Growing with # 4935
(Ident. by F. J. Hermann) e

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

4941 *Panicum scribnerianum* Nash. ditto
121 Growing with # 4935 e

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

4943 *Panicum basii* var. *molle* (Vasey) H. & C. ditto
121 In woods south of
here # 4935 grows; deciduous. e

4944 *Carex scoparia* Schkuhr ditto
121 In wet boggy meadow along brook
just across Hagerell 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
131 Growing near # 4944
(Ident. by F. J. Hermann) e

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

4947 *Carex scoparia* Schkuhr, ditto
121 Growing near # 4944
(Ident. by F. J. Hermann) e

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

Carex scoparia Schreb. Bull Run Mt., Va
Tranquar Co
June 5, 1938
4949 In bog near Haperell Gap
west slope from High Point
where big plants were not stood H.A. Allard
(2) below White Oak gone just
west of Haperell to Broad Run station
(Ident. by F. J. Hermann) e

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

4951 *Bromus japonicus* Thunb. ditto
(3) In field (Castellia) where stone
crusher was, just below quarry
abundant.
In cultivation 19 e

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

4953 *Houstonia purpurea* L ditto
(2) Growing with # 4951
abundant; full bloom: showy e

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

4955 *Dianthus armeria* L ditto
(1) In same field with # 4951.
also single, but abundant; also in
high brown sedge field beyond where
abundant, but less so than in river field. e

Carex lasiocarpa Lam Bull Run Mt., Va
Tranquar Co.
June 5, 1938
4956 fine brown sedge H.A. Allard.
(1) pasture beyond Castellia,
west slope near Haperell Gap.
(Ident. by F. J. Hermann) e

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

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

4959 *Carex hirsutella* Mark. ditto
(5) 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
Gramineae
(1) In woods beyond brown sedge
field near # 4956 e

4961 *Panicum torbulatum* Michx. ditto
(1) In brown sedge field near # 4957 gen. e

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

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

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

4964 *Carex lurida* Wahl.
(4) Beside brook in bog where huge
black walnut tree grows, i.e. 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 laeviraginata* (Kühnenth.) Mark.
(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; just blown.

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

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

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

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

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

4974 *Carex laeviraginata* (Kühnenth.) Mark.
(3) In bog with # 4964: abundant ditto
(Ident. by T. J. Hermann)

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

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

Carex vulpinoidea Michx. Bull Run Mt., Va
in bog near brook
49777 ~~under black walnut~~ June 5, 1938
the grass, - is just east of H.A. Allard
white oak grove
(ident. by F. J. Hermann) e

49778 *Glyceria striata* (Lam.) Hitchc.
(3) In same bog with # 49777:
very abundant ditto e

49779 *Juncus acuminatus* Michx. ditto
(1) Growing with # 49777
(ident. by F. J. Hermann) e

4980 *Poa trivialis* L. Gramin. ae ditto
(1) In field, near # 49777, damp
ground near brook. e

4981 *Dactylis glomerata* L. ditto
(1) Old field near # 49777, low ground:
everywhere abundant. e

4982 *Bromus commutatus* Schrad. ditto
(1) In low ground bog with # 49777:
abundant here e

4983 *Carex scoparia* Schkuhr ditto
(5) In same bog with # 49777,
forming large clumps.
(all from same clump)
(ident. by F. J. Hermann) e

Juncus macrocarpa S.F.G. Bull Run Mt., Va
in same bog. June 5, 1938
4984 with # 49777 H.A. Allard.
(1) (ident. by F. J. Hermann) e

4985 *Carex scoparia* Schkuhr. ditto
(1) In same bog with # 49777 e
(5) (one clump) very abundant
(ident. by F. J. Hermann) e

4986 *Poa trivialis* L. ditto
(3) In same low ground bog
with # 49777: abundant. e

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

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

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

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

Pentstemon pallidus Small
 Triassic area near Antioch.
 4991 very abundant by roadside on road leading
 (9) ad in old field (damp) from #55 highway
 near Antioch. My first June 5, 1938
 record 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.) Oakes Bull Run Mt., Va.
 (1) In fine, browned edge field Franquier Co.
 beyond Riley's, coming in June 5, 1938
 in places - around rocks etc. H.A. Allard
 First fern to appear south of Hopewell Gap.

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

4994 *Apocynum pubescens* R. Br.
 (3) In same brown sedge field ditto
 with # 4992: abundant; just in flower
 a common constituent of browned edge fields; in woods.

4995 *Botrychium virginianum* (L.) Sm.
 (2) In woods south of Males glaucescens Rehder ditto
 abundant here ad in all woods of Bull Run mfr
 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.
 on trail to Mill Mt., Va. In Alleghenies
 beyond Coffeltz. of Little Stony Creek west
 of Columbia Turnpike,
 Shenandoah Co.
 May 30, 1938
 (Date out of consecutive order) H.A. Allard

On soil Bull Run Mt. Va.
 In old browned edge South of Hopewell Gap
 4998 fields in bare old browned edge field
 spaces between just west of Hopewell to
 (1) clumps. = *Cladonia cristatella* f. *beauvoisii* (Del.) Hain
 apothecia red. f. *vestita* Tuck. (apothecia discolored)
Cladonia f. *vestita* Tuck.

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

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

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

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

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

5004 *Cladonia cristatella* f. *beauvoisii* (Del.) Hain
 several On soil with # 4998 (apothecia discolored) ditto
 5004a. *C. cristatella* f. *vestita* Tuck. (1)
 5004b = apothecia red
 5004c = *C. verticillata* f. *evoluta* (Th. Fr.) Stein
 5004d = *C. subcariosa* f. *evoluta* Wain + *C. cristatella* Tuck.

Cladonia
On soil in old
wornedge field.
5005
several apothecia brown
C. pyxidata var. neglecta f. simplex (Ach.) Harm.
Bull Run Mt., Va
South of Haperell Gap
West of Haperell to
Broad Run Sta. Highway
June 12, 1938
H.G. Allard

5006 *Cladonia subcariosa* f. *evoluta* (Horn) Wain. ditto
with # 5005 (young podetia) on soil.
several? apothecia brown

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

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

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

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

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

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

5013 *Surtellaria ovalifolia* var. *multis* Ehl. ditto
" In woods just south of high
wornedge field, on west slope
near High Point. e

5014 *Sphenopholis obtusata* (Michx.) Scribn. ditto
" 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* Mack. ditto
12/ From high wornedge field beyond old Riley cabin south of Haperell Gap.
abundant here but in few stemmed clumps.
all from clumps (G)
Ident. by F. J. Hermann

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

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

5018 *Cladonia* ditto
" apothecia brown
Growing with # 5017.
Some *Leucobryum albidum* with *Cladonia*

Festuca elatior L. Bull Run Mt., Va
Gramineae, Fannin Co.,
Roadside south of June 12, 1938
Hofenell Gap $\frac{3}{4}$ mile H.A. Allard
near old mansion in south of Hofenell Gap.
(4) woods on west slope and on east slope below
High Point; abundant here.

5020 *Oenoclea sensibilis* L. ditto
(2) Low ground thickets near # 5019
Plants very large, most high;
abundant.

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

5022 *Carex proserpinacifolia* Schreb. ditto
(1) In old yard of old cabin, heavily
shaded by trees. A dense pure stand
a sod base of considerable size. Mature
and shattering. (Ident. by F. J. Hermann)

5023 *Carex horrida* Michx. ditto
(1) In bog south of Hofenell Gap and
old, large blank walnut tree old cabin
just west of Hofenell to Broad Run highway.
(Ident. by F. J. Hermann)

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

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

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

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

5028 *Carex vulpiroidea* Michx. ditto
(5) all from bog with # 5023
(all from 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 *Apocynum androsaemifolium* L. ditto
(5) abundant all over high brown sedge
field beyond Rileys old cabin
where they formerly lived.

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

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

5034 ~~Sphenopholis~~ *Poa compressa* L.

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

5035 *Carex swanii* (Tern.) Mark.

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

5036 *Carex swanii* (Tern.) Mark

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

5037 ~~Sphenopholis~~ *Poa compressa* L.

(1) Growing in same woods with * 5034

5038 *Carex hirsutella* Mark.

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

5039 *Speularia perfoliata* L. ^{abundant}

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

Carex frankii Kunth Bull Run Mt., Va

a huge clump in Tranquien Co.
5040 yard of old cabin June 12, 1938
Riley's lived in H.A. Allard.

(8) just south of Hoperell 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
Hoperell Gap; abundant in
these pastures
(ident. by F. J. Hermann)

5044 *Lobelia spicata* Lam.

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

5045 *Dianthus armeria* L.

(2) In same old pasture with * 5042
Very abundant; full bloom, all in
broomedge pastures

5046 *Stironema ciliatum* (L.) Raf.

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

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

5048 *Bromus commutatus* Schrad. (ident. by H.J. Hermann)
" Very abundant in field ditto
above with # 5047
a common species here in old pastures.

5049 *Apocynum pubescens* R.Br.
" abundant, just in bloom in ditto
old pasture with # 5047.

5050 *Cyperus atrovirens* var. *georgianus* (Harper) Torr.
" In red spot by roadside on Triassic ditto
area near Antioch on road from
Haysmarket to Antioch; abundant.
(ident. by H.J. Hermann)

5051 *Achillea purpurascens* L.
" Growing with # 5050 ditto
in woods on roadside near Antioch.
Full bloom: occasional here

5052 (blossoms deep red-purple)
" Lichen
(black in color)
on low shale outcrops ditto
all of slope: abundant
here; holds tenaciously to rocks.
Short Mt., south end,
Massanutten Range
June 14, 1938.
H.A. Allard

5053 *Cladonia*
" (cup 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
" where we park car; abundant
(Today Mr. W.W. Diehl and I may
the main colony here).

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

5056 *Pentstemon caeruleus* Small.
(15) Half way up main slope
near # 5055: abundant; full e ditto
blossoms in large clumps.
carolla pale reddish purple.

5057 *Cruciferae* = *Sisymbrium officinalis*
" (16) (fl. small, yellow) = *Barbarea officinalis* (L.) Britton ditto
on shales with # 5056: abundant; e
passing. Leaves very narrow

5058 *Hebe Blepharidocaulon ciliatum* (L.) Raf. ditto
" (17) 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. ditto
" (21) Growing abundantly with # 5056
half way up the south slope on Martinsburg
shales; full bloom; dense bunches
a characteristic shale plant.

5060 *Danthonia spicata* (L.) Beauv. e ditto
" (21) on shales all of slope
with # 5056: scattered; vigorous
in spite of dry soils.

Lepidium virginicum L. south end of Short Mt., Va
on dry steep shales Shenandoah Co.
Massanutten range.
5061 slope: abundant: June 14, 1938
15/ full bloom. H.A. Allard
an abundant plant on these shales. e

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

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

5064 *Gramineae: Festuca obtusa* Spreng. ditto
2/ On shales near * 5061
scattered. e

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

5066 *Bromus pinnatus* L. ditto
17/ abundant well up slope on
shales: beginning to chatter: a
tall, handsome, drooping species, and
prominent on lower shales now. 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 here often June 14, 1938
14/ woods: abundant; shattering. H.A. Allard. e
(Ident. by F. J. Hermann)

5069 *Silene aemula* L. ditto
11/ On shales near road
where *Cetraria* colony begins
and here in park: abundant: full bloom

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

5071 *Anagallis arvensis* L. ditto
11/ 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
11/ 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. e

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

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

5078 *Bupleurum* *undifolium* Great Valley of Va.,
Shenandoah Co.
(10) roadside near Near Woodstock, Va.,
roadside June 14, 1938
Woodstock: abundant here. H.A. Allard e
full bloom.

5079 *Pentstemon lanigatus* Soland. Bull Run Mts Va
(12) *Fl. white*: a large colony Franquier Co.
just west of Thoroughfare Gap June 14, 1938
on Plains area in full bloom; not common. H.A. Allard e
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, e
between Strasburg and Mt. Jackson June 14, 1938
H.A. Allard

5081 *Tragopogon dubius* W. subsp. *major* (Jacq.) Vollinger
(16) very abundant between Strasburg and ditto
Mt. Jackson: full bloom; fl. yellow, e
roadside near

Aster virgatus purpuratus Nees south end of Short Mt., Va
(A. *virgatus* Ell.) Massanutten range,
Near A. *laevis* and 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. e
Found abundant here and elsewhere in Massanutten
but mainly on dry shales.

5083 *Draba ramosissima* Desr. e
(4) well up slope on shale barrens ditto
abundant: some flowering still,
but mostly in seed: fl. white.
Flowered only on shale areas here.

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

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

5086 *Crataegus tomentosa* ² *inflata* M. Benth.
Flowers stems, leaves, fruit pubescent. ditto
on shales near foot of slope proper. e
scattered

5087 *Ruellia strepera* L. ditto
3 on route 730 from Valley Pike
near Short Mt. This by roadside at
neck on way to Short Mt.: abundant,
full bloom: flowers large, showy, blue. e

5088 *Carex umbellata* var. *enervis* Boott.
(1) at ledges on Short Mt.: abundant. ditto
see rocky talus begins
(ident. by T. J. Hermann)

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

5089 *Carex mullerbergii* or *energis* Boott. ditto
(4) Growing with # 5089 abundant: alt. about 2400 ft (ident. by F. J. Hermann)

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

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

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

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

5095 *Carduus acanthoides* L.
(6) Near road side, try roadside. abundant here; just opening its flowers; only a few plants with flower heads; pink purple; my first record.

Cirsium pinnatum (Nutt.) Shreve.
South end of Short Mt., Va. Massanutten range, Shenandoah Co. June 19, 1938 H.A. Allard.
on route 730 leading east from valley Pike just south of Mt. Jackson. Big roadside in woods 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.
(2) on top of cliffs at 2600 ft. ditto e
Leaves dotted, but stems smooth, whereas *G. pilosum* has dotted leaves, hairy stems. abundant; just in bloom; fl. purple.

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

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

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

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

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

5104 *Galium pilosum*
(2) var. *pumactifolium* *circaeans* Michx. ditto
puncticulatum
fl. white, stems glabrous, edge of leaves ciliate,
fruit mucinate-hispid; leaves not dotted,
hairs as in *pilosum*.

5105 *Silene linearis* Michx.
(8) On top of diff. at 2500 ft. full bloom.
On county road #730, low, wet Great Valley of Va
roadside shot in woods approaching Shenandoah Co
Smith end of Short Mt., June 19, 1938
abundant here. H.A. Allard

5106 *Scrophularia leporilla* Bicknell
(1) Top of Short mountain - Smith end
on high crest of ledges at 2600 ft.
full bloom here: on shales at foot
of slope past bloom ditto

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

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

Allium ampeloprasum L.² Park town
First found by Dr. S. F. Blake
There then collected by Howard T. Allard
June 19, 1938 who visited this area: abundant
here; full bloom a week earlier; very fragrant;
purple heads of flowers; numerous basal bulbils.

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

5111 *Chrysanthemum* *leucanthemum* ditto
(4) var. *pinnatifidum* var. *pinnatifidum*
very abundant in Castello's field
near stone crusher stood. full bloom

5112 *Rudbeckia hirta* L. ditto
(3) Growing in same field with
5111: full bloom; 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 *Dryopteris polypodioides* ditto
(2) In woods beyond high
Purdon sedge field od oak tree
Quercus saubii
- *Dryopteris hexagonoptera* (Michx.) C. Chr.

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

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

Polystichum acrostichoides Bull. Run Mt., Va.
var. *schweinitzii* (M. F.) T. S. G. June 26, 1938
5117 In woods below High Point, west slope of cold spring with # 5116. ditto

5118 *Polystichum acrostichoides* (M. F.) T. S. G. ditto
(2) Growing near # 5117 very abundant. ditto

5119 Moss on big boulders covering them with a solid mat in brook from spring base # 5116 near. ditto
abundant: dull olive green.

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

5122 *Sparganium angustifolium* Michx. ditto
(1) *Muhlenbergia uniflora* L. Rich woods just below High Point, west slope: full bloom

5123 Moss on stones covering these with a bright, sunlit satiny greenness of pure moss. ditto

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

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

5126 *Quercus saeui* Schneider. ditto
(5) In s.w. corner of high brown edge field beyond Castello's a young, fine tree. white caps of chestnut ruber and red around. = *alba* x *montana* (brunus)

5127 *Apocynum peltoides* (L.) Ehrh. ditto
(2) *Humboldtia* on dunes: abundant. at Provincetown, Cape Cod, Mass. July 1, 1938
no flowers, there being rarely produced. (E. M. F. introduced) H. A. Allard

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

5129 *Antrostaphylos missouriensis* Spreng. ditto
(1) on dunes near # 5128. ditto
not in flower: abundant.

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

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

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

5133 *Aralia hispida* Vent.
(2) abundant on dunes at
Provincetown; also everywhere by
roadsides in Maine. Quebec etc: full
bloom. See # 5097
ditto

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

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

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

5137 *Hieracium aurantiacum* L.
(4) In fields, roadsides
July 3, 1938
Maine
H.A. Allard
etc. often in freedom: deep orange
(orange fl.) Very showy.
everywhere in north, Canada, Yukon, Alaska
Maine, N.Y. Wash. etc. full
bloom

Hieracium patense Tausch, Desert Isle, Maine.
abundant and intermingling July 3, 1938.
with # 5137: somewhat
taller: less stoloniferous
5138 bl: 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.
- *Pinnanthus crista-galli* L.
ditto

5140 Gramineae
(3) abundant in Central
Maine in places by
roadside: spikes purple: showy
Mathamamkeag,
Penobscot Co., Maine.
H.A. Allard
July 3, 1938.
- *Calamagrostis canadensis* (Michx.) Beauv.

5141 *Juniperus trifida* L.
(2) Near top: above timber
line: abundant on knife edge.
(Ident. by Hermann)
Mt. Katahdin,
Maine
July 4, 1938
H.A. Allard

5142 *Diapensia lapponica* L.
(1) Near top: above timber
line: abundant: dense clusters
clustered: fl single: 3 parted below calyx.
Near top ditto

5143 *Vaccinium vitis-idea* L.
(1) var minus Lodd.
abundant: full bloom above timber line.
corolla deep pink.
ditto

5144 *Ledum gwenlandicum* Ledeb.
(2) bl. white: a very showy
shrub above timber line: full
bloom: evergreen.
Lodd.
ditto

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
Hieroblye alpina (Swartz) Boem. pschuel.

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 humnescens* (Pers.) Poir. ditto
" Growing above timber line.
(Ident. by Hermann)

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

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

5151 *Linnaea borealis* ditto
" very showy, delicate, pinkish
very fragrant in bloom.
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 stumps,
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* (L.) Web.

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

5156A In same locality
C. rangiferina (L.) Web.

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

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

Cladonia *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5159e = 5159b. *C. squamulosa* (Schaer.) Sacc. on Camp Baxter Trail
July 5, 1938
5159 at bridge at falls 5159c
fore Camp Baxter 5159d = 5159b, and *C. coniocraea* f. *ceratodes*
" 5159a same as 5159
5159b = *C. gracilis* var. *dilitata* (Hoffm.) Vain.
(and *C. coniocraea* f. *ceratodes* (Hoffm.) Vain.)

5160 *Lyopodium clavatum* L. ditto

" Growing near # 5159
5159h = *C. squamulosa* (Schaer.) Hoffm. and *C. coniocraea* f. *ceratodes*
and *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5159j = 5159k = *C. coniocraea* f. *ceratodes* (Hoffm.) Vain.
5159l = *Jamesoniella autumnalis* (Dill.) Stehr
5161 *Lyopodium annotinum* L. ditto

" Near # 5159

5162 *Linnaea borealis* americana Pursh.

" Min. flower. full bloom: very fragrant; ditto
pink.

Three found at Mud Pond below camp Baxter.
Very abundant at all elevations. to near top
of Katahdin.

5163

" *Cerastium*? *absine graminea* (L.) Britton ditto

Growing on shore of Mud Pond below
camp Baxter: full bloom. e

5164

Arnica mollis var. *petiolaris* Fernald
(2) yellow flowered Composite ditto
(Arnica)

In damp boggy ground in thicket at
Mud Pond: full bloom

5165

Oxalis acetosella L.

" At camp Baxter at foot of
Mt. Katahdin: abundant: full bloom: e
fl. white.

5166c = *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5166d = undeterminable,

5166e = " "

5167 = *Phylidium ciliare* (L.) Nees. L.)

5167a = " "

5167b = sterile - doubtful. Some sent to Berry, C.C. 2

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

5167d. " "

5167e " "

5168 *Phylidium ciliare* (L.) Nees.

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

5168b " "

5168c " "

5168d " "

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

5168f. " "

5168g " "

5168h " "

5168i " "

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

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

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

5168N and 5168O = same as 5168L.

Clad - C. gracilis var. dilatata. Mt. Katahdin Maine

51592 =

51

(and

51

51

51

5159

51

51

51

51

51

516

59 f. = C. rangiferina (L.) Web. Mt. Katahdin, Maine,
Cladonia July 5, 1938,
H.G. Allard

5166

on rocks at very top near
irony plaque. Sphaerophorus fragilis (L.) Pers.

66a = ~~Termonema~~ setiforme (Ehrh.) M.A. Howe
Misture or Plectrostroma setiformis (Ehrh.) Lynce
Cladonia ditto

5167

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

5168

Mosses
Lichens From cliffs at
Hepatic folk above Camp ditto
Boister.

5169

Hepatic = Diplophyllum tapifolium (Vahlent.) Dunn
Mosses
From cliffs near # 5168

5170

Diplophyllum tapifolium (Vahlent.) Dunn
Mosses 5170C = Cladonia rangiferina (L.) Web.
Lichens 5170D = Sphaerolobus minutus (L.) S.F. Gray.
Hepatic 5170E = Cladonia rangiferina (L.) Web.
with # 5168 + Bozzania trilobata (L.) S.F. Gray.

5171

Mosses etc.
Growing near # 5168 ditto

5172

Bozzania trilobata (L.) S.F. Gray ditto
Mosses
Hepatic
Growing with # 5168.

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

5173 at falls above
Camp Baxter.

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

e

5174 Bryum?

" Growing with # 5173

ditto

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

" Growing at falls above
Camp Baxter

Mosses
Hepatic

ditto

5176

(5) Senecio robbinsii Oakes.

In damp boggy soil in Thicket
at Mud Pond, below Camp Baxter.
Occasional: full bloom.

ditto

5177

" Carex peckii E.C. Howe.

" Growing with # 5176

(Ident by Hermann)

ditto

5178

Silene latifolia (Mill.) Britton

" at Camp Baxter.

Beautifully veined calyx.

- S. cucubalus Wibel.

ditto

5179

Carex humilis (Pers.) Poir.

" On cliff shelf at falls
above Camp Baxter.

(Ident by Hermann.)

ditto

Gramineae.

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

5180

at Camp Baxter

"

in woods.

Danthonia spicata (L.) Beauv.

5181

Carex crandfordii Fern

"

Growing at Mud Pond below

Camp Baxter
(Ident. by Hermann)

5182

Carex crandfordii Fern.

"

Growing near # 5181

(Ident. by Hermann.)

5183

Carex scabrata Schreb.

"

with # 5181

(Ident by Hermann)

5184

Carex crandfordii Fern.

"

at Mud Pond below

Camp Baxter
(Ident by Hermann.)

5185

~~Cyperus~~ ^{Saxifraga} atrocinctus Fern.

"

Near # 5184

(Ident. by Hermann)

5186

Carex scabrata Schreb.

"

Near # 5184.

(Ident. by Hermann.)

ditto

carex gynandra Schrein 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~~ ^{Saxifraga} atrocinctus Fern.
" Growing with # 5187 ditto
(Ident. by Hermann)

5190 Chrysothrix hirsutiuscula (L.) T. P. S.
" At Mud Pond - ditto
on soil in woods -
prostrate - small leaves
alternate Not size

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

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

5193 Arenaria greenlandica (L.) Spreng. ditto
" Everywhere above timber line at
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. furcatiformis 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
5210b = Temnoma setiforme (Ehrh.) M.A. Howe.
5210c = Cladonia uncialis (L.) Web.
5210d = " 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

//

Tuf
fl. wh.
with blue

Vaccinium

5194

//

uliginosum L.

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

5195

//

Salix phylicifolia Pursh
at top among rocks
above timber line
low.

ditto

5196

//

Near # 5195

Ericaceae

shrub. Vitis idaea var. opifera L.

ditto

5197

//

Ericaceae

Near # 5195

= Vaccinium uliginosum L.

ditto

5198

//

Lycopodium selago L.

Near # 5195

ditto

5199

//

Carex concinna R. Br.

with # 5195

(ident. by Hermann)

ditto

5200

//

Cetraria islandica

with 5195 - abundant.

5200a = Cladonia rangiferina (L.) Reb.

ditto

Cladonia²

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 amaurocrata (Floerke) Schaer
f. oxyclada Vain.

5202 Cladonia

|| moss
with # 5201

ditto

5203 Lichens.

|| One yellowish green - foliose -
very pretty

Near # 5201

ditto

5204

|| moss
Lichens
Near # 5201

ditto

5205 Cetraria islandica

|| Near # 5201

ditto

5205a = Cladonia amaurocrata (Floerke) Schaer. abundant

5206 Cladonia rangiferina (L.) Web. ditto

|| Near # 5201

5207 Cetraria islandica (L.) Ach.

|| Near # 5201

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

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 amaurocrata (Floerke) Schaer.
5209c = Ptilidium ciliare (L.) Nees.

5210

|| moss
Lichen like # 5203

ditto

5211

Mostly Cetraria islandica (L.) Ach. ditto
|| some Cladonia rangiferina
" " alpestris. e
(intermittent)

5212

|| Gramineae
Poa lapa Macarke,
in rock crevices.

ditto

5213

Vaccinium vitis-idea vitis-idea ditto
|| var. minus Lodd.
1 Mt. Cranberry; fl. deep pink.
in full bloom at top. e
Low shrub.

5214

|| Carex brunneocens (Pers.) Poir. ditto
near # 5213. (ident. by Hermann)

5215 on top of
Cairn and
horns plaque etc.

5216 sphagnum
" at ^{and} Governor's Spring on
plateau just below top in
boggy ground.

5217 Carex crainfordii TERNALDI. NY. Katahdin, Maine
 1/1 also juncus macer at Camp Baxter at foot.
 S. F. Gray July 8, 1938 e
 at Camp site (identically Hermann) H. A. Allard) e

5218 Carex intumescens Rudge, ditto
" vs. Arnaldii Bailey
at camp site (ident. by Hermann) / e

5219 *Poa polystris* L
Examine
111 ditto
at camp site e

5220 *Gramineae Agrostis tenuis* Sibth. ditto
 21 at Camp site
 five purple panicles, soft, lax, showy.

5221 *Galium strictum* L. Moosehead Lake, Maine
 12/1 bl white.
 July 8, 1938
 1 By roadside
 near Greenville, Maine. H. A. Allard

5222 on grassy bank of dam
earth bank.
" very beautiful, deep blue, showy:
fully bloomed
var. ~~intercedens~~ (Wittasek) Farner e

5223 Matricaria ~~suaeolens~~
matricarioides (Less.) Porter. ditto
11/ Near X 5222.
(rayless)
Lost or left my fine digging tool
here.

5224 *Aster macrophyllus* L Mt. Washington
 (2) Pinkham Notch,
 July 11, 1938
 at Dolly Gap Campsite H.A. Allard.
 (abundant; just coming into bloom) c)
 rays blue.

5225 *Juncus greenei* Oakes et Turbom. L. e
 III at camp site 1 eding. by Hermann ditto

5226 (1) Hieracium aurantiacum July 16, 1938
at Norton Lake, N.H.

5227 *My roadside.*
Very abundant weed in all fields; full
brown (be) schaeer.

5227 *Cladonia pleurota* (P. ^{he}) Schaer.
Mt. Washington N.H.
In Tuckerman's Ravine. July 13.
(on soil) 1 H.A. Coe 1/9.

5228 Cladonia squamosa (Sw.) Hoffm. ditto
11/18 ra =
5228 with * 5227 " " "

Hierochloa odorata (L.) B. & P. M.T. Washington, N.H.
Tuckermans Ravine,
Pinkham 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 brunneus* (Pers.) Poir. (shade form) ditto
" Near # 5229 e
(Ident. by Mr. Hermann) e

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

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

5235 *Exemum peckii* Pursh. ditto
" *Potentilla* e
Very showy: full bloom
on ledges: abundant.
appearance of a buttercup. e

Dracopis mollis Hook. M.T. Washington, N.H.
Tuckermans Ravine.
on ledges etc. July 13, 1938
H.G. Allard.
5236 full bloom. ditto
" showy. Not e
abundant: in clumps. e
(4)

5237 *Carex brunneus* (Pers.) Poir. ditto
" In ravine Ident. by Hermann. e

5238 Gramineae ditto
" In ravine e
Poa pratensis L. e

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

5240 *Carex brunneus* (Pers.) Poir. ditto e
" In ravine (Ident. by Hermann) e

5241 *Luzula parviflora* (Ehrh.) Desv. ditto
" *Cyperus* var. *melanocarpus* (Michx.) Benth. e
above Tuckermans Ravine. e
(Ident. by Hermann) e

5242 *Carex leptomeris* Fern. ditto
" Above Tuckermans Ravine.
(Ident. by Hermann) e

Carex canescens L.
var. *disjuncta* Fern.
5243 Above Tuckerman's Ravine. July 13, 1938
(Ident. by Hermann)
Mt. Washington, N.H.
Tuckerman's Ravine
trail. H.A. Allard

5244 *Arenaria groenlandica* (Retz.) Sp. *ditto*
// In Tuckerman's Ravine. *menq.*

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 chlorocarpa* *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 *Rhynchospora oblongifolia* *ditto*
// *Castilleja septentrionalis* Lindl.
yellowish green flowers;
narrow leaves; not showy.

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

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

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

5252 *Veronica alpina* L. *ditto*
// var. *malaschensis* C.P.S.
= *V. romscholdii* R.P.S.

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

5254 Gramineae *ditto*
// At Tuf. among rocks near
Summit House
Poa glauca Vahl.

5255 Lichen *ditto*
// near # 5254
among 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 Ravine

||

Calamagrostis canadensis (Michx.) Beauv.

e

5258

Carex lunensis (Pers.) Poir. ditto

||

In Trickerman's Ravine

e

5259

Carex paupercula 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 paupercula 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 atrovirens 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

Dense tufts
stems very

Silphium caespitosum L. var. *callosus* Bigelow.

e

(Ident. by Dr. Hermann)

5265

Houstonia caerulea Steud. var. *toponotum* (Gray) Steud. ditto

||

In Trickerman's Ravine:
very abundant; full bloom:
almost pure white in dense
clusters

5266

Cladonia

Cannon Ball Mt.

||

On top at 4100 ft. very dry on aerial
tram 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* (Thöerke) Schaer.

||

Polygonum persicaria
around quarry dam soil above
Castello's house at Haverell Gap.
Common: full bloom.

Bull Run Mt., Va.

Haverell Gap.

July 24, 1938

H.G. Allard

5268

Oxalis europaea forma *cymosa* (Small) Heg.

||

Near # 5267
abundant: full bloom

ditto

e

5269

Galium triflorum Michx.

||

Thicket at Castello's quarry above.
abundant: full bloom

ditto

e

5270

Chiraphidum vulgare L.

||

abundant: full bloom
with # 5269; fl. rose-pink.
common in thickets.

ditto

e

Pyrenanthus incanum
In thickets at Castello's
quarry above his house:
5271 abundant: full bloom
" *Roellia pyrenanthoides* (Leaven.) Knutze
Bull Run Mt., Va
Hoperell Gap.
July 24, 1938
H.A. Allard
Fauquier Co

5272 *Solanum carolinense* L. ditto
" at above quarry: abundant: full bloom

5273 *Amelanchier canadensis* (L.) B.S.P. ditto
" same locality with # 5271
abundant: full bloom.

5274 *Galium circaezans* Michx. ditto
" same locality with # 5271
abundant in woods: passing

5275 *Acalypha virginica* var. *virginica* A. Gray. ditto
" at above quarry: a common weed;
often red throughout in autumn.

5276 *Gemma canadense* Jacq. ditto
" at above quarry: abundant.

5277 *Oxalis europaea* forma *cymosa* (Small) Wieg. ditto
" at above quarry,
abundant: full bloom.

Amelanchier canadensis (L.) B.S.P. ditto
Bull Run Mt., Va
Hoperell Gap.
July 24, 1938
H.A. Allard
Fauquier Co
at Castello's quarry
above his house.
5278 abundant in woods etc.

5279 *Sanicula canadensis* L. ditto
" Near # 5278.
abundant in woods etc.

5280 *Polygonum hydropiper* (L.) Opiz. ditto
" Same spot near # 5278.
abundant: full bloom.
leaf; drooping racemes, whitish: achenes full.

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

5282 ditto
" Large serrate, ovate leaves.
inflorescence umbellate.
In thickets at above quarry.
Aralia racemosa L.

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

5284 *Meibomia nudiflora* DC. ditto
" *Desmodium*
woods: near slope below High Point.
Very abundant in woods: full bloom: a
conspicuous feature of understory with Hog Peanut.

Sericocarpus asteroides (L.) Bull. Rm Mt., Va
B.S.P. Hoperell Gap -
woods next slope below
High Point.
July 24, 1938

5285 abundant: full bloom H.G. Allard
Fauquier Co.)

e

5286 *Monotropa hypopitys* ditto

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

e

5287 *Impatiens anglica villosa* (Walt.) 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 *Crotalaria sagittalis* L

" old brown sedge field near Hoperell - Broad Run Station highway
abundant in some dry areas: lam.
hanging.

ditto

e

5289 *Hypericum denticulatum*

" in old field near where *Prunus rigida*
forma globosa grows.
full bloom: abundant.

ditto

e

5290 *Prunella vulgaris* L

121 in old field
last year in wheat: very abundant
now: full bloom. abundant in
deciduous woods, cart roads etc.

ditto

e

5291 *Daucus carota* L

" 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 *Prunus rigida* H.G. Allard
forma globosa. very
abundant in old fields: full bloom

e

5293 *Lactuca canadensis* L

" old field near # 5292.
abundant: full bloom

ditto

e

5294 *Paspalum pubescens* Muhl.

" in old field near # 5292

ditto

e

5295 *Panicum spheerocarpon* Ell.

" near # 5292

ditto

e

5296 *Oxalis corniculata* L

" with # 5292

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

ditto

e

5297 *Polygala verticillata* L

" in same old field with # 5292:
full bloom

ditto

e

5298 *Pastinaca sativa* L.

121 Edge of thickets in old field
just beyond Castellon: large colony
here: full bloom: fl. yellow.

ditto

e

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

5299

(1)

Franklin Co

e

5300 *Saxifraga varicifolia* Runtze ditto
(2) Near # 5299: The largest in
Bull Run Mt., is 8 ft in circumference at
heart height. Very beautiful, shapely tree.

e

5301 *Plantago aristata* Michx.

ditto.

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

e

5302

(5) *Mentha spicata* L.

ditto

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

e

5303 *Carex lucida* Wahl.

(1)

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

ditto

e

5304 *Aporosa cannabinum* L.

(3)

Old pasture (broomedge) beyond
Castello's at Hopperell Gap.
abundant: full bloom

ditto

e

5305 *Oenothera biennis* L.

(2)

Old field where small cedars
are abundant beyond Castello's, near
lane *Pinus rigida* in field.
Very abundant: full bloom.

ditto

Sida spinosa L.

Bull Run Mt., Va.

July 24, 1938

Hopperell Gap, Franklin Co.

Franklin Co.

5306

In old broomedge
(2) pasture where many small cedars grow far beyond Castello's
near ravine old barbs from Riley's
old cabin

e

5307 *Chondrilla juncea* L.

ditto

(5)

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

e

5308 *Sabatia solidago juncea* Ait.

ditto

(3)

In old broomedge field near
5306: scattered: just coming
well into bloom

e

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

ditto

(2)

In old broomedge field where
Pinus rigida var. *globosa* grows.
abundant here: full bloom: very deep rose,
pink, shiny: very fragrant: buds have white bell
transition of corolla.

e

5310 *Aurates viridiflora* (Raf.) Eaton

(2)

In old field with # 5309: scattered
on the high broom-edge fields it is general:
full bloom

e

5311 *Pyrola asarifolia* (L.) Kuntze.

(2)

In old field beyond Castello's -
long in broomedge woods, wet slope
below High Point - deciduous:
common in old broomedge fields.

e

5312 *Arabis racemosa* L.

(1)

In thicket at Castello's quarry:
full bloom.

ditto

e

~~These have been identified~~
Hedera ~~fulva~~ ^{lanceolata} (L.) Pers. Bull Run Mt., Va
in thickets and Hopewell Gap,
July 24, 1938
5313 *Castilleja gnaphalodes* (L.) A. N. S. P. H.A. Allard
(2) very abundant; full bloom. Franquiere Co.
Order of Pennsylvania, Tenn.

5314 *Cirsium pumilum* (Nutt.) Shreve. ditto
(3) In old field beyond Castellaz near
old rail yard (1937) wheat field now
weeded 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 H.A. Allard
to ridge. Castellaz's quarry is on Hopewell Gap and
locally abundant - 3 ft. just coming west slope
into flower here. Franquiere Co.

5316 *Panicum wheeleri* Pers. ditto
(4) On top of High Point cliffs in this
soil in exposed places: abundant.

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

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

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

Habenaria clasellata (Michx.) Bull Run Mt., Va
In moss and spring Franquiere Co.
July 31, 1938
5320 *Sphagnum* in H.A. Allard
swampy woods by near Hopewell Gap and
(1) spring below High Point, west slope below
west slope: full bloom; local; not abundant.

5321 *Lactuca canadensis* L. ditto
(2) Old field, damp soil just west of
Hopewell 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 Black Walnut Tree
across Hopewell to Broad Run station
highway - nearly opposite High Point.

5323 *Desmodium sibiricum* Sibth. ditto
(4) *Silene pauciflora* Muhl.
In old pasture near # 5322
abundant here

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

5325 *Pycnanthemum flexuosum* (Walt.) B.S.P. ditto
(3) ^{Ruellia} Old pasture near # 5323.
abundant here: full bloom.

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

Hanicum anceps Michx. Bull Run Mt., Va
Gramineae. Fannin Co.

- 5327 In old pasture damp soil
near old cabin across
Hoferville to Broad Run Station highway;
abundant; forms large patches, including other species.
full bloom.

- 5328 *Moussada fistulosa* L.
(8) In damp spot across same
road way above - old near
5327. Large colonies here: full bloom.

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

- 5330 *Agrimonia hamiflora* Nutt. Soland
(2) In low ground near old cabin
just west of black walnut tree across
Hoferville to Broad Run Station highway
very abundant here; just coming into bloom.
(head bright; fl. yellow).

- 5331 *Setaria lutescens* (Weig.) Hubb.
(2) In old field near cabin and large
black walnut trees (now dug up)
across Hoferville to Broad Run Station highway
south of Hoferville Gap; scattered.

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

- 5333 *Sagittaria pubescens* Muhl.
(1) No flowering specimens
in small with # 5332.
Not abundant.

Minulus ringens L. Bull Run Mt., Va
Fannin Co.

- 5334 In small with # 5333:
full bloom.
(2)

- 5335 *Helianthus trifoliatum* L. ditto
(1) In old pasture,
damp ground just east of Hoferville to
Broad Run Station highway and
near *Pinus rigida* forma *globosa* Muhl.

- 5336 *Cassia bicarpa* Fernald
(2) In low rain near # 5335:
full bloom; strong; abundant.

- 5337 *Ipomoea pandurata* (L.) Meyer. ditto
(1) In old wooded pasture where
Pinus rigida forma *globosa* Muhl.
full bloom; abundant.
(Brown dug up a root, 4 ft deep reaching
5-2 lbs.)

- 5338 *Solidago tenuifolia* Pursh. ditto
(1) In old wheat field (1937) where low
Pinus rigida forma *globosa* Muhl.
Poplar tree 15 feet in dia. 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 Ashe. Bull Run Mt., Va.
In old wheat field where
5341 covered with wild carrot
(planted to wheat 1937) Tangier Co.
July 31, 1938
H.A. Allard
(1) Very abundant here below
wild carrot stratum. (See notes) e

5342 *Vernonia glauca* L. Willd. ditto
(2) In old browned 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 ridge
field 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 red ditch
below Castello's, Hagerell Gap. e
Ident. by H.A. Allard; confirmed by T. J. Hermann

5345 *Oxalis corniculata* L. ditto
Oxalis corniculata L. var. *corniculata* (L.) Berg.
Roadside in grassy field
(4) near at Hagerell Gap, between
Castello's and Owens' where no park e
car: abundant; full bloom.

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

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

Sarothra gentianoides L. Bull Run Mt., Va.
Tangier Co.
August 7, 1938
H.A. Allard
on railroad
just above
Beverly Mill:
5348 abundant; full bloom.
(orange red) Thoroughfare Gap. e
(1)

5349 *Verbena hastata* L. ditto
(blue var. var.)
(2) In red soil along Broad Run
west of Broad Run station:
abundant; full bloom. e

5350 *Panicum huachucae* Ashe ditto
(1) In same soil with #5349
very wet, low along Broad Run. e

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

5352 *Scutellaria integrifolia* var. *typica* Ehl. ditto
(1) Same soil with #5349
abundant here; last flower. e

5353 *Prunella vulgaris* L. ditto
(1) In farm with pure, snow white
flowers; first I have ever seen) e
In soil with #5349; blue form
abundant here) e

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

Galium aparine Michx. Bull Run Mt., Va
In wet swale Aug. 7, 1938
along Broad Run Franquier Co.
5355 near Broad Run Station H.A. Allard
abundant: full bloom
fl. white.

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

5357 *Elephantopus carolinianus* Willd. ditto
In woods at Shooting Spring
just above Beverly Mill beside railroad.
Full bloom: frequent. e

5358 Labiateae: *Erigeron canadensis* L. ditto
In swale with # 5355:
abundant: nearly past blooming: fl. rose-pink e

5359 *Hypericum punctatum* Lam. ditto
with # 5355
abundant: full bloom. e

5360 Labiateae
In same swale with # 5355 ditto
abundant: full bloom
Koeleria blepharosa (Walt.) MacM. e

5361 *Galium tinctorium* L. ditto
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 Thoroughfare of Franquier Co. e
part flowering.
Lysimachia terrestris (L.) B.S.P.

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

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

5365 *Helianthus giganteus* L. ditto
along railroad just above Broad Run
station: just in flower.
fl. light yellow. e

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

5367 *Andropogon furcatus* Muhl. ditto
Beside railroad just above Broad
Run station.
My first record for Bull Run area.
uncommon here. e

5368 *Diodia teres* Walt. ditto
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.
on railroad just above Broad Run Station. ditto
very abundant; full bloom.

5372 on railroad just above Broad Run
Station: abundant. ditto
(3) (lvs. very leafy, small).
Angelica polygona Raf.

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

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

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

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

5376

(2)

Poinsettia
5377 *Euphorbia dentata* (Michx.) Small. ditto
on railroad just above and
at Berkeley Mill: abundant here: full bloom
(5) My only record in Bull Run area (?)
5377a *Poinsettia cubensis* (Engelm.) Small.

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

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

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

5381 *Eragrostis spectabilis* (Pursh) Steud.
on railroad just above Berkeley Mill ditto
(4)

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

Agrimonia parviflora Nutt. Bull Run Mt., Va.
Soland Tranquien Co.
In damp meadow August 7, 1938
5383 on Broad Run just above Thoroughfare H.A. Allard
(1) Cal. rose R. R. leaves Thoroughfare Gap, Cal.
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 *Lycopus americanus* Mill. ditto
(2) In same small with # 5384
abundant; full bloom. e

5386 *Minimus 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.
(Ident. by F. J. Hermann) e

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

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

Penthorum sedoides L. Bull Run Mt., Va.
Same small with # 5384 Tranquien Co.
Tall herb; shortly serrate Aug. 7, 1938
5390 leaves; flowers in a terminal H.A. Allard
(4) panicles, whitish or yellowish above Thoroughfare Gap, Cal. e

5391 *Asclepias purpurascens* L. ditto
(1) Same small with # 5384
Very abundant here e
= *A. pulchra* Clark.

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 *Indigofera 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 Muhl. Bull Run Mt., Va
in small pool above
5397 Broad Run Station H.A. Allard
along Broad Run
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 in
(3) wet area 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 withered above Beverly.
full bloom: bluish fl; not abundant.

5402 *Ludwigia palustris* (L.) Ell ditto
(4) *Ludwigia palustris* L. near # 5401
abundant here. As we walk
from Beverly to Broad Run Station, and
cross 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 just above Beverly
5404 Mill. abundant: H.A. Allard
(11) only seed in Bull Run area.

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

5406 *Sonchus oleraceus* var. *glaberrimus* (L.) DC. 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)

5409 *Acalypha virginica* (L.) Gray. ditto
(2) Rail road near Beverly Mill.
very abundant.

5410 *Cassia nictitans* (L.) Muhl. ditto
(3) Rail road near Beverly Mill;
abundant; full bloom; fl. small;
leaves cloudy slowly when struck, so we can see
motion.

Euphorbia
on railroad
5411 near Bererley Mill.

Bull Run Mt., Va
August 7, 1938
Fauquier Co.
H.A. Allard
Near Thoroughfare Gap.

(1) *Poinsettia cubensis* (Engelm.) Small.) e

5412 *Oxalis europaea* f. *acymosa* (Small) Wieg.)
(1) Railroad just above Bererley Mill. ditto
Abundant: full bloom.) e
(1) 5412a: *Oxalis stricta* L.)

5413 *Hypericum gentianoides*) ditto
(1) Railroad near Bererley Mill.)
Abundant: full bloom.) e
= *S. arthra gentianoides* L.)

5414 *Medicago lupulina* L.) ditto
(3) Railroad at Bererley Mill.)
full bloom: only locality in this) e
area.)

5415 *Chenopodium album* L.) ditto
(1) By Railroad near Bererley Mill.) e

5416 *Eleocharis obtusa*) ditto
(1) not soil by railroad just above)
Bererley Mill: abundant.) e

5417 *Cyperus flarescens* L.) ditto
(1) not soil by railroad at)
Bererley Mill.) e

Paspalum pubescens Bull Run Mt., Va
Fauquier Co.
August 7, 1938
H.A. Allard
Bererley Mill
Thoroughfare Gap.

5418 (1)) e

5419 *Leersia oryzoides* (L.) Sw.) ditto
(3) not soil just above)
Bererley Mill by railroad.) e

5420 *Sharganium evycastrum*) ditto
(1) in mud and water on left of)
Broad Run just above cut)
(9) at Thoroughfare Gap going toward) e
Broad Run station: abundant.)

5421 *Carex frankii* Rostk.) ditto
(5) In not small along Broad Run)
just above where railroad leaves)
Thoroughfare Gap: in small at left, see railroad) e
leaves cut: abundant.)
(Ident. by F. J. Hermann)

5422 *Sagittaria hirsutata* Mark. & Bush.) ditto
(4) In water and mud in small)
along Broad Run at left just)
above Broad Run station.) e
5422a (same as above) = 5422

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

5424 *Dianthera americana* L.) ditto
(1) In Broad Run at Bererley Mill)
not in bloom; past bloom, but)
for a record.) e

Tenorella canadensis Bull. Run Mt., Va.
mint. Franquier 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 ditto
near Bererly Mill: abundant:
full bloom.

5427 *Alisma plantago* ~~agrostica~~ ^{subcordatum} Raf.
(1) In small of mud and water ditto
just above Thoroughfare Gap
on Broad Run: abundant;
full bloom.

5428 *Gypsea petiolata* L. Ruby.
(1) ~~in meadow~~ ^{Parsonia} and along railroad ditto
just above Thoroughfare Gap.
Very abundant: full bloom.

5429 *Rhynchospora* ~~capitata~~ ^{capitata} (Michx.) ~~var. minor~~ Britton
(3) In damp low shot at Devil's Hole Mt., Va.
Gaf below abandoned CCC camp. at CCC camp abandoned
a dense pine near here: very abundant. Damp shot at Gaf
beyond 3 mile mt.
August 14, 1938
H.A. Allard
Identified by F.J. Hermann (Allegheensis)

5430 *Juncus effusus* L. var. *solutus* Torr. ditto
(5) 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.
(seeds without tails) ditto
(Ident. by F.J. Hermann)

Lycopodium virginicum L. Devil's Hole Mt., Va.
same low shot with Shenandoah Co.
August 14, 1938
H.A. Allard
5432 leaves decided at abandoned CCC camp
(4) purplish beneath. in Gaf beyond 3 mile mt.
(Allegheensis.)

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

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

5435 *Empetrum saccifolium* L. ditto
(1) on trail at top and along
Devil's Hole Mt.: abundant: full bloom.

5436 *Pyrolanthum incarnum* Michx. ditto
(2) On same dry ridge with # 5435
abundant: full bloom on trail here.

5437 *Thysanotus* ~~carpinifolius~~ ^{opulifolius} (L.) Kuntze ditto
(2) on same dry ridge crest
with # 5435: abundant here.
why?

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

Asplenium montanum Willd. Shenandoah Co., Va.
on dry cliff shelves
5439 shaded from sun August 14, 1938
at very top, and H.G. Allard. Alleghenies
(1) far from water.

Rock a red sandstone apparently
and shaley. a number of disjunct
beds.

5440 *Juncus macer* S.F. Gray.

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

5441 *Juncus marginatus* Rostk.

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

5442 *Cyperus strigosus* L.

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

5443 *Juncus subcandatus* (Engelm.) Gill & Blake ditto
(1) Growing near # 5440
(Ident. by F. J. Hermann)

5444 *Juncus marginatus* Rostk.

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

5445 *Juncus acuminatus* Michx.

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

Rhynchospora glomerata (Willd.) Britton & Allen
var. *minor* Britton & Allen
Shenandoah Co., Va.

5446 abandoned CCC camp August 14, 1938
at G of beyond (1/2) H.G. Allard.
(17) of 3 mile Mt., Va. near of Edinburgh.
(Ident. by F. J. Hermann)

5447 *Juncus macer* f. *anthelatus* (Wieg.) Hermann ditto
(1) Near # 5446

(Ident. by F. J. Hermann)

5448 *Juncus marginatus* Rostk. ditto
(1) Near # 5446

(Ident. by F. J. Hermann)

5449 *Juncus macer* f. *anthelatus* (Wieg.) Hermann ditto
(2) Same locality with # 5446.

5450 *Juncus macer* S.F. Gray. ditto
(1) Same locality with # 5446
(Ident. by F. J. Hermann)

5451 *Juncus marginatus* Rostk. ditto
(1) Same locality with # 5446
(Ident. by F. J. Hermann)

5452 *Juncus subcandatus* (Engelm.) Gill & Blake ditto
(1) Same locality with # 5446.
(Ident. by F. J. Hermann)

Juncus marginatus Roth. Seila Hole Mt., Va
at abandoned CCC camp Shenandoah Co
out Gap beyond 3 mile Mt., August 14, 1938
5453 in moist soil. H.A. Allard.
(2) *Allegheensis* e
(Ident. by T. J. Hermann)

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

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

5456 *Juncus marginatus* Roth ditto
(2) same locality with # 5453 e
(Ident. by T. J. Hermann)
5456 A - *J. subcaudatus* (Engelm.) Coville
Blake

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

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

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

Scirpus aeperinus (L.) Kunth. Bull Run Mt., Va
in swale just Franquier Co
along Broad Run station August 13, 1938
5460 H.A. Allard
(2) abundant e
(Ident. by T. J. Hermann.)

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

5462 *Cornus bicolor* L. ditto
(4) Dry road side bank just west
of Thoroughfare Gap: A huge, branching
bush 6 ft high: flowers yellowish white e
turning reddish; not abundant here
some in flower area near Thoroughfare.

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

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

5465 *Rudbeckia triloba* (L.) Small ditto
(5) In low ground along Massanutten Range,
valley Pike east of Shenandoah Co.
below Mt. Jackson to Short Mt. August 19, 1938
abundant; full flower. H.A. Allard e

5466 *Liatris scariosa* Willd. ditto
(3) in swale (dry) near roadside
where he parked. just in flower. e

Mass. In woods Smith end of Short Mt., Va
(thin) in Cetraria Massanutten Range,
islandica colony. Shenandoah Co.
5467 August 19, 1938.
H.A. Allard

5468 *Cladonia* ditto
On shales in thin woods
near Cetraria islandica colony

5469 *Cladonia* ditto
Same locality with # 5468

5470 *Rubria eupatorioides* L. ditto
(3) On dry shales below cliffs:
abundant: full bloom but passing
(cream white fl.) at Signal Knob
a typical shale plant on all these shales

5471 *Commelina erecta* L. ditto
(5) On shales well up Short Mt. here;
abundant on all these shales
throughout: a typical shale barren plant.
full bloom.

5472 *Scutellaria leonardi* Ehl. ditto
(1) On shale slope well up mt.
near # 5471

5473 *Quercus rubra* ^{maxima} Ashe ditto
(1) acorns peculiar in being
(3) very long on this tree. cup 1.8 cm across
acorn 2.7 base to top
" 1.5 projecting from same.

South end of Short Mt., Va
Quercus rubra ^{maxima} Ashe ditto
On shale barrens Shenandoah Co.
August 19, 1938.
H.A. Allard
5474 below cliffs. ditto
abundant: acorns on shale slope below
(2) normal, not as long as in # 5473. very prolific: trees
multiple stemmed, 10-15 feet high. e
a common shale barren tree.

5475 *Quercus muhlenbergii* Engelm. ditto
abundant on the shales below the
(17) cliffs: full fruit: but young, much less
mature than true Rock Chestnut oak
also here. Especially abundant here:
some badly mildewed, e

5476 *Quercus prinus* L. ditto
(1) abundant in scrubby form on
the shale barrens here) e

5477 *Eragrostis pectinacea* (Michx.) Nees
(2) Growing on side walk Front Royal,
on a street in Warren Co., Va.
Front Royal; August 19, 1938
very vigorous. H.A. Allard. e

5478 *Quercus rubra* ^{maxima} Ashe ditto
(3) On shales with # 5475 etc. e
(Below cliffs on shales proper, but
all over the mountain to the cliffs)

5479 *Quercus rubra* ^{maxima} Ashe ditto
(1) On shales below cliffs: e
acorns long as in # 5473

5480 *Quercus rubra* ^{maxima} Ashe ditto
(2) acorns and cups large: e
proportionately shorter and
thicker than # 5473 & # 5479.
on shale barrens with # 5479

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.B. Allard
2700 ft. Some flat rocks with thin
soil (horizontal) covered with pure stand of
small plants among mosses.
5482 Mosses kept them moist.

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

5483 Moss. On top of cliffs at 2700 ft.
(1) On large horizontal rock of 8-10 ditto
square feet with # 5484 with which it was
competing. This rock covered entirely with
a pure 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 shales 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 outcrop August 19, 1938
below cliffs; H.B. Allard
(1) abundant; gray green like a moss;
pressed.

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

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

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

5492 *Quercus muhlenbergii* Engelm. ditto
(1) On barren shales near
5490; abundant; fruitful,
but acorns less advanced than
Quercus prinus. Have three from
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
it in June. H.B. Allard.

5494 *Helianthus scaberrimus* Bull. Bull Run Mt., Va.
(3) e *Helianthus scaberrimus* Tangier Co.
beyond Thoroughfare Gap on August 21, 1938
The right of detour via rough road. H.B. Allard.
14 inch Rudbeckia laciniata here
also. fl. rich deep yellow comp. with *B. laciniata*

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

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

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

5498 *Quercus rubra* Moench. 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
 (4) on barren shales above the steep cliff
 outcrops; abundant here: full bloom. e
 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. e
 a large clump here. (Extensive thickets
 of wine berry here)

5501 *Meibomia dillenii* Darl. ident. by F. J. Hermann. ditto
 (4) In pasture thicket near
 old house mentioned
 for # 5500; abundant. e

Crotogeomys pruinosus (Nutt.) Mase. ditto
 (1) fruit ripe, crimson. Shenandoah Co.
 a large colony on August 21, 1938
 5502 cliffs at very H.A. Allard
 (3) Top of ridge, old printing heapish; e
 very showy with crimson fruit.

5503 *Quercus prinus* L. ditto
 (1) on upper slope at top just e
 below # 5502.
 dominant sh. with red oak: fruiting
 heavily.

5504 *Lifes Rosularia rotundifolia* Michx. Cop. & Britt. ditto
 (2) (grouseberry) on upper slopes on exposed
 sunny slides: scattered and more or
 less general. e

5505 *Carya glabra* (Mill.) B.S.P. ditto
 (4) on barren shales with # 5503, e
 where 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
 barren here, where steep, loose,
 forming large, paired colonies.
 very showy: a shale lover.

5507 *Lobelia* Near Woodstock, Va.
 (3) (fl. pink) e Roadside on Valley Pike
 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
Prince William Co.,
North of Antioch.
5509 In low ground
along weeflow
below chestnut tree
spring at Allen's (negro) cabin, east slope.
(1) This beyond Mrs. Ashby's (nest) & e
(Ident. by F.J. Hermann)

5510 *Rhynchospora capitellata* (Michx.) Vahl. ditto
(1) Growing abundantly with # 5509 -
along low area here. e
(Ident. by F.J. Hermann)

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

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

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. e

5514 *Smilax rotundifolia* L. ditto
(1) Same thicket with # 5513
abundant; fruit green yet. e

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

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

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

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

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

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 flower: tall: slender to head high. e

5521 *Meibomia lineata* DC. ditto
(2) ~~Desmodium laevigatum~~ *Meibomia*
growing with # 5520: (are not a pair)
abundant; full bloom: on these ridges
dry wooded ridges generally. fl. purple. e

5522 *Meibomia dillersi* Darl. ditto
(2) In same locality with # 5520: ditto
abundant; full bloom: fl. purple. e

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

Poromychia fastigiata var. humilis (Wood) Fernald.
5524 Anychistrum montanum Shenandoah Mts.
18, on dry shale slopes. #5529 West Va., Hardy Co.
where road side was built out Sept. 5, 1938
at top of mountain: a pure stand H.A. Allard
nearly closed; plants very large, ident. by Dr. F.J. Hermann 9-8-38

5525 Scirpus capricornis var. pilosus Torr. & Griseb.
31. Damp spot by roadside Spruce Knob,
at 4400 ft Pendleton Co.,
West Va. Sept. 5, 1938
abundant. e H.A. Allard

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

5528 Centaurea maculosa L. On top of e
31 on highway from Shenandoah Mt.,
Harrisonburg to Franklin Va., Rockingham Co.,
Beside road near West Va. line Sept. 4, 1938
several plants: full bloom. e H.A. Allard.
showing. (Wood's says Pilake S.F. 9-8-38)

5529 Anychistrum montanum. e ditto
151 same locality with # 5528.
very abundant; on dry shales by
roadside; appears localized at
high altitudes in mountains.
Paromychia fastigiata (Raf.) Fern. var. humilis (Wood) Fern. - ident. 9-8-38 by Dr. F.J. Hermann

Composite
yellow fl. L. In Geo. Wash. Nat. Forest
= Hieracium pilosella L. beyond Harrisonburg, Va.
on roadside Sept. 4, 1938
5530 in woods H.A. Allard
11 by stream before
ascending Shenandoah Mt. e
ident. by S.F. Blake 9-8-38

5531 water plant
at stream shore # 5530 green. ditto
11 Fronds extending dense green
patches on water and in mud:
no flowers.

5532 Solidago rugosa Mill. at Doss, West Va.
31 all over the plateau Tucker Co. Sept. 5, 1938
here the most abundant H.A. Allard.
goldenrod: full bloom alt. 3100 ft
very showy. These found
near old pulp factory mine.

5533 (Aster umbellatus Mill.) e
11 same loc. with # 5532. ditto
over the plateau. the most abundant
species. entering the thicket.
Sollingeria umbellata (Mill.) Nees

5534 Aster.
11 Growing on outcrops with
5533: abundant; full bloom:
rings blue, showy. ditto

5535 (Cacalia sarscolella) e ditto
11 Growing near # 5532
abundant: full bloom.
Synosoma sarscolella (L.) Raf.

5536 Cirsium arvense (L.) Scop. e ditto
11 Growing at ruins of
decimated pulp factory
at Doss: a few plants: in full
bloom. Growing near # 5532.
ident. 9-8-38 by Dr. F.J. Hermann

Spiraea salicifolia
In low ground
5537 near Allegheny Trout. Tucker Co.,
nearly past blower; H.G. Allard.
(2) very abundant.
Leonard says *S. alba* DuRoi
current. 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. e

5539 *Solidago puberula* 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.G. Allard

5540 *Angelica villosa* (Walt.) B.S.P. Bull Run Mt., Va.
(1) on roadside in woods Sept. 11, 1938
1 mile north on valley road H.G. Allard
crossing R.R. just south of Frazier Co.
Berkeley Mill scattered in fruit mostly
(H. v. v. v.) e

5541 *Cuscuta compacta* Guss. ditto
(1) *Hydrangea arborescens*
In woods beside road near # 5540 e

5542 *Gerardia tenuifolia* Vahl ditto
(3) on wooded bank near # 5540
full bloom; flowers purple.
By roadside here e

5543 *Moss* ditto
(1) In woods on bank north
of R.R. at Berkeley Mill.
about 1 mile north. e

Lespedeza procumbens Michx. Bull Run Mt., Va.
In pasture north of Sept. 11, 1938
old chimney and cellar H.G. Allard
hole north of R.R. on Frazier Co.
valley road - near edge of woods.
(2) This near the flag stone granary here. e

5545 *Quercus rubra* L ditto
(1) Red oak - typical.
Large tree just beyond here # 5544 grass
on fence row near flag stone granary
and negro houses. e

5546 *Carya glabra* (Mill) Britton ditto
(3) *Victoria*
Tree on edge of woods beyond
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 *Leslea racemulosa* Lam. ditto
(3) In old pasture near granary
near old cabin where # 5547 grows;
abundant. e

5549 *Eragrostis spectabilis* (Pursh.) Steud ditto
(2) In old field or pasture near
5547, abundant; showing
reddish purple. e

5550 *Heibornia* ditto
(2) In same old pasture
near # 5544.
Desmodium dillenii Darl. e

Aristida oligantha Michx. Bull Run Mt., Va

Sept. 11, 1938

5551 In old pasture.

near # 5544,

(1) 5549, 5550 etc.

H.A. Allard

Fauquier Co.

Large areas in dry sterile soil,

5552 *Rudbeckia hirta* ^{monticola small}

(1) In same old field with

5551 etc. a few still in

flower; mostly past. was very abundant in this field.

ditto

e

5553 *Solidago gaminifolia* var. *monticola*

var. *monticola*?

(2)

In same old field with

5551: abundant here,

(very brittle)

ditto

e

5554 *Cyperus strigosus* L

(1)

not shot in old pasture near

5551 (Det. by F. J. Hermann 9-19-38)

ditto

e

5555 *Panicum philadelphicum* Bernh.

(1)

In same old field with

5552

ditto

e

5556 *Cyperus strigosus* L

(1)

In not shot in same old

field near # 5555

(Det. by F. J. Hermann 9-19-38)

ditto

e

5557 *Cyperus rivularis* Kunth

(2)

In not shot in old field

near # 5554.

(Det. by F. J. Hermann 9-19-38)

ditto

e

Trinervia tylosis autumnalis Bull Run Mt., Va

Sept. 11, 1938

In low spot near

Fauquier Co

H.A. Allard.

5558 # 5554, abundant here

(1)

var. *micronulata* (Michx.) Torr.

(Det. by F. J. Hermann 9-18-38)

e

5559 *Achillea* ^{*Gesmodium*} *dillenii* Darl.

(1)

Road side in woods just

north of rail road on valley road below Beverly Mill. full bloom.

ditto

e

5560 *Echinochloa crus-galli*

(2)

Roadside near # 5559: abundant.

var. *mitis* (Pursh) Peterson.

ditto

e

5561 *Leersia virginica* Willd.

(2)

Bank in woods on roadside

near # 5559

ditto

e

5562 *Panicum polyanthes* Schult.

(3)

On roadside bank near # 5559

ditto

e

5563 *Leersia angustata* (L.) Sm.

(1)

In low, open, not shot by

roadside a few hundred yards

north of railroad on valley road.

ditto

e

5564 *Achillea* ^{*Gesmodium*} *dillenii* Darl.

(3)

In old field where black walnut

tree stood and old chimney - it

1/4 mile N. of railroad below Beverly on

valley road.

ditto

e

Ipomoea purpurea (L.) Lam. Bull Run Mt., Va
In old field with tangier Co
#5564 around Sept. 11, 1938
old house site where H.A. Allard
black walnut tree stood; much
Lycium here.

5566 *Quercus falcata triloba* Michx.
(2) Several trees on valley road just
south of Berkeley and near railroad
track bed on this dry ridge.

5567 *Actinomeris alternifolia* DC
(2) In damp thickets, very abundant
just below Berkeley Mill above
rail road.

5568 *Vitis vulpina cordifolia* Michx.
(2) Leaves very shallow, broad
and damp thickets with # 5567 at
rail road below Berkeley Mill.

5569 *Panicum stipitatum* Nash
(15) In small just
west of Thoroughfare Gap near where # 55
highway turns on dirt detour, ie

5570 *Helianthus annuus* L.
(1) On field in land on New Jersey
plots below New York; area. New Jersey
coll. by C.W. Bacon, V.S.D.A. on # 1
Sept. 1938 (Appears to represent
to a mild many headed form)

5571 Lichen (moss)
(1) on shale of west
slope, at end of road
turning off Highway # 11
at Pugh's Run
Three Top Mountain, Va
Massanutten Range
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
Same locality with # 5571 ditto
(on shale cliffs)

5574a = *C. verticillata* (Hoffm.) Schaer. (indefinite in form)
5574d = same as 5574.

5574 *Cladonia subcariosa* S. exoluta Wain.
(1) on shale slope in woods ditto
of west slope, cups with
5574a = *C. verticillata* S. exoluta (Th. Fr.) Steyerl.
5574b = same as 5574.
5574c = *C. verticillata* Michx. 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. e ditto
(1) on shale ridge in thin
woods west slope - near # 5575
+ mosses.

5577 Moss
(1) On shales on crest of
ridge in thin thickets - ditto
of Red oak, *Solidago* *botry*, *Robinia*

5578 *Quercus velutina* Lam.
(18) Leaves deeply lobed and lobes ditto
margin, resembling red oak, but
much rusty pubescence beneath; awns
typically black. On good before we
got to farm where we parked car - all from
individual tree A.

Quercus marilandica
velutina Lam.
on shale ridge -
on ridge just north of
farm house where we
hiked, in dry sterile shale pasture
with low slope;
Time Top Mt. Va.
Massanutten Range,
Shenandoah Co
Sept. 18, 1938
H.A. Allard

5579

5580 *Eragrostis*

(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
gracilis L

(3) In door yard of farm
house; prostrate; abundant

Woodstock, Va.
Shenandoah Co
Sept. 18, 1938
H.A. Allard

5583

Kuhnia eupatorioides L

(4) Near bridge on Pugh's Run just north of Woodstock
just off U.S. highway # 11 and just off U.S. highway
also abundant on Massanutten # 11, on limestone
shales of Signal Knob, Three Top Mt. Va.
Sept. 18, 1938
H.A. Allard

5584

Hypericum
gentianoides L. BSP.

(3) on shales with # 5579 and # 5581
very abundant in this pasture

ditto

5585

Trichostema dichotomum L

(6) In same locality together
(7) with # 5581; very abundant here
on a thin, heavily wooded shale
slope in pasture.

ditto

Sarrhus hachiatns L.) Massanutten Range,
Three Top Mountain, Va.
on shale ridge
just east of Three Top Mt., Shenandoah Co
Sept. 18, 1938
H.A. Allard
5586
(6) here we hiked at
end of Pugh's Run; abundant; full
bloom.

5587

Empetrum nigrum L.

(2) Low plant very brown hairy; is
it var. *villucanle* Ternald,

ditto

Growing with # 5581.

5588

Gnaphalium obtusifolium L

(3) Growing with # 5581; abundant; ditto
full bloom.

ditto

5589

Quercus marilandica Muench

(2) Growing in shale pasture
with # 5581

ditto

5590

Paronychia fastigiata (Raf.) TERN

(1) var. *pumila* (Wood.) TERN.

ditto

on shales with # 5586
abundant; full bloom; style long

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
very abundant here H.A. Allard
at top: scarcely any in flower: very
late. on steep shale ridge just east
of foot of slope of Three Top Mt.

5594 *Verbascum phlomoides* L
(3) on Pugh's Run just off
U.S. highway # 11, north of Woodstock, Va.
By roadside, a colony in full flower.
Flowers larger, brighter yellow than
those of *Verbascum Thapsus*. Does not agree
5595 well with description in Gray et al.,
however. My first record for Va.

(1) *Chenopodium glaucum* north of Woodstock, Va.
In farm yard at Great Valley of Va.,
near Woodstock, e Shenandoah Co
Sept. 18, 1938
growing beside H.A. Allard
5582. Side sharp edged, calyx lobes not keeled.

(1) *Panicum capillaris* (L.) Nees
(Has habit of an *Eragrostis*; very fine, tenacious)
on shales, west slope, on
ridge at foot of Pugh's Run
3 miles N.E. of Woodstock, Va.
(2) Just below where we park car, in woods at foot
of shale ridge.
Eragrostis capillaris (L.) Nees. ditto
(green panicles: very tenacious)
growing near # 5596, in thin woods
on shale slope.

5598 Moss
(1) 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
(1) Near # 5598: woods. ditto

Moss Three Top Mt., Va
On rocks well up Shenandoah Co
west slope of Three Top Massanutten Range
5600 near boulder slides Sept. 22, 1938
occurs in above shale H.A. Allard.
(1) In woods in shallow, damp ravine.

5601 Liverwort?
(1) Growing with # 5600 ditto

5602 Moss
(1) Growing on rocks in same ditto
wooded ravine with # 5600

5603 Liverwort
(1) On rocks near # 5600 ditto

5604 Moss
(1) On rocks near # 5600 ditto

5605 Moss
(1) on rocks with # 5600 ditto

5606 *Solidago bicolor* L (form) e ditto
(1) 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~~ purshii Three Top Mt., Va
on steep shale at foot Massanutten Range
of west slope of Three Top Mt., Shenandoah Co
Va., where I fell Sept. 22, 1938
with Dr. T. J. Hermann H. G. Allard
(2) abundant beside # 5606; full bloom
: erecta according to S. T. Blake 9-28-38

5608 *Muhlenbergia siliifera* (Muhl.) Trin. e
" In woods at foot of shale slope ditto
below where I fell

5609 *Helianthus autumnale* L ditto
(3) In flood plain of North Fork of
Shenandoah River, near foot of shale
where I fell, and just east of farm yard
where we parked on Pugh's Run Road.
abundant; full bloom.

5610 *Eupatorium verticillifolium*
(2) In flood plain var. *villifolium* Fernald ditto
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 e 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 H. G. Allard
(1) foot of shale slope e
along road way in pasture east of
where we parked. My first acquaintance
with this blackberry. Rare; seemingly
more or less evergreen.

5615 *Calamagrostis purteri* Gray
" In rocky woods near top ditto
of main ridge above rock slides
occurs. Not common: passing e

5616 *Lespedeza repens* Benth. ditto
(2) at foot of shale slope near
5614; abundant: prostrate, e
covering thin soils in pasture here.

5617 *Digitaria filiformis* (L.) Koenig ditto
(3) on shales at foot of slope with
5616; abundant here. e

5618 *Panicum capillare* L ditto
" Growing with # 5617. e
Resembles an *Eragrostis* in habit.
Very delicate, ternate.
5618A: *Panicum philadelphicum* Bernh.

5619 Labiateae.
(2) growing with # 5614 e ditto
Scutellaria ovata Muhl. (Wood) Epl.

5620 *Perilla frutescens* (L.) Britton e ditto
(3) Growing near # 5614: e
very abundant in damp thicket wooded
ravine here.

Euphorbia
on slope at foot of
slope in thin woods
Three Top Mountain, Va
Massanutten Range,
Shenandoah Co.,
Sept. 22, 1938

5621 near # 5614:
(4) scattered in grass and low herbaceous
here, H.G. Allard.

Poinsettia dentata (Michx.) Small e

5622 *Acalypha virginica* L.

(2) Growing with # 5621 e

5623 *Solidago bootii* Hook

(2) all over steep slopes
at foot of Three Top Mountain just
east of farm house where we park,
3 miles N.E. of Woodstock, Va.
ditto e

5624 abundant; just in bloom.

(3) *Antennaria annua* L. ditto
growing along with fork of Shenandoah
on flood plain with # 5609: abundant:
full bloom here.

5625 *Lepidogon sericea*

(3) In old field on
highway # 55: scattered; Sept. 22, 1938 e
full bloom. H.G. Allard.
(introduced) = *L. curvata* D. Don.

5626 *Helianthus angustifolius* L.

(6) (full bloom)
My first record for Va. Near Merrifield, Va
Fairfax Co.,
Daisy spot by roadside

5627 *Vitis bicolor* Salente

(3) on rock slide
near top of Three Top,
west slope, abundant.
fruit with bloom, pleasant.
Three Top Mt., Va
Massanutten Range
Shenandoah Co.
Sept. 22, 1938
H.G. Allard.

Bidens aristosa

near down road, parked

5628 very showy: passing
(5) var. *fitcheyi* Ternald, e

5629 *Pilea pumila* (L.) G. Gray.

(3) In woods back of
John Gaskins' home, N.E. of Round Knob.
Heavy woods on west slope.
abundant: full bloom etc, ditto e

5630 *Elephantopus carolinianus* Willd.

(#) In moist woods with # 5629 ditto
(5) Full bloom: abundant here. e

5631 *Galinsoga passiflora*

(5) var. *ciliata* (Raf.) Blake ditto
in old field near barn of
John Gaskins: abundant: full bloom. e

5632 *Amyclia polygonoides* Raf.

(1) Growing with # 5629 in
open in woods: abundant,
passing ditto e

5633 *Muhlenbergia subulifera*

(3) In woods near # 5630. (Muhl.) Trin. ditto e

5634 *Lepidogon stipularia* Moench.

(3) In old field on east slope and
in valley east of Gaskins' ridge. e
between easternmost of Gaskins' Ridge.
very abundant. ditto

Lespedeza striata (Thunb.) H & A Bull Run Mt., Va
Fauquier Co
Sept. 25, 1938
H. A. Allard
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 *Desmodium illinoense* (L.) Torr. 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 dillerii* Barb ditto
(1) In *Desmodium*
same swamp with # 5638

5640 *Muhlenbergia ~~capillaris~~ tenuiflora* (L.) Link ditto
(2) In old field near beyond and east
of # 5638, near giant white oak tree
where we ate lunch. Dense stands
here. = *M. schreieri* var. *palustris* (Scribn.) Scribn.

5641 *Eupatorium coelestinum* L. ditto
(3) In low ground meadow in
valley just south of # 5638 on edge
of woods. Abundant; fl. rich violet,
very showy.

Dryopteris ~~diatomica~~ ~~argentea~~ Bull Run Mt., Va
Fauquier Co
Sept. 25, 1938
H. A. Allard
In swamp just beyond
swamp where # 5641 grew.
5642 = *D. goldiana* (Hook.) Max

5643 *Agrostis perennans* (Walt.) Tuckerm ditto
(1) In woods near sand dune
leaf just bordering small
where # 5641 grew: scattered,

5644 *Quercus coccinea* Michx. ditto
(4) In small woods near
5642, in small isolated
grove in pasture here.
Acorns 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 shale ridges. Shenandoah Co
Sept 22, 1938
Large tree. H. A. Allard
(This out of date order by mistake)

5647 *Aster cordifolius* L. ditto
(3) on damp bank along North Fork
of Shenandoah R. of here - park at
end of Pusher Run Road. Abundant; full
bloom; (rays blue) Hemlock abundant here.
(Near old summer cabins)

5648 *Agrostis* ditto
(1) Growing on wet slope near
5647, in old road.
Agrostis perennans (Walt.) Tuck.

Cladonia (branched) + moss
5649 on soil on rocks near top, west slope.
Three Top Mountain, Va.
Massanutten Range,
Shepherd Co.
Oct. 2, 1938
H.A. Allard.

5650 *Solidago bootii* Hook
(9) on steep shale hill at foot of Pugh's Run road off U.S. 211. abundant on barren shale here. passing River 3 miles N.E. of Woodstock. ditto
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, ditto
shimmering, very acid at end of Pugh's Run road near farm 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 bottom above steep slopes where 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.
5656 This very small, long fruit below. (15)
Growing on west slope, 3 miles N.E. of Woodstock, abundant.
Three Top Mt., Va.
Massanutten Range,
Shepherd Co.
Oct. 2, 1938
H.A. Allard.

5657 *Solidago bicolor* L
(1) Road side, Hagerell Gap just west of Antioch, Va. full bloom; abundant.
Bull Run Mt., Va.
Prince William Co.
Oct. 5, 1938.
Hagerell Gap.
H.A. Allard.

5658 *Panicum philadelphicum* Bernh.
(1) In ^{cut} corn field just south of Mrs. Cox's house, west slope, north of Hagerell Gap. Nearly mature. ditto
Fauquier Co.

5659 *Aristida oligantha* Michx.
(1) Roadside below High Point (west) on west slope; abundant; (mistaken cast) ditto
Fauquier Co.

5660 *Panicum gattingeri* Nash
(1) In corn field with # 5658 (abundant last year; uncommon this year in same field). Mature; flowers falling. ditto
Fauquier Co.

5661 *Acalypha gracilens* L
(1) Growing in old cornfield (of 1937) near stream & road just below (west) of White Rocks; very abundant; seeds black, smooth. ditto
Fauquier Co.

5662 *Panicum philadelphicum* Bernh.
(2) Growing beside # 5661, here abundant in this old cornfield. ditto
Fauquier Co.

Aster purpureus L

Bull Run Mt., Va
Fauquier Co.
North of Hopewell Gap, Va
Oct. 5, 1938
H.A. Allard

1. rays bright blue
5663 By roadside at stream
and bridge below White Rocks.
(3) when car was parked.
very abundant, showy
(leaves toothed) bracts loose

5664 *Solidago altissima*
var. *missouriensis* Mill. Ditto
(1) Near Harris place east
in valley by old cherry tree.
abundant; full bloom

5665 *Prenanthes serotina* Pursh
(2) along road just
north of Hopewell Gap, in
interior valley road to Mrs. Achly's.
full bloom; common.

5666 *Solidago graminifolia*
var. *mutabilis* (Greene) Fernald
(2) var. *mutabilis* Ditto
In old field near Allen's house
west of Achly's place, north of Hopewell Gap,
where infertiles lived.
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 claudatum* L
(1) Near # 5667 - south of Allen's
house (colored) in old field.
ditto
Prince William Co.

5669 *Digitaria*
~~*Ruellia*~~ *filiformis* L. (K) ditto
(3) In old field just west of
Allen's cabin near
Chestnut Tree Spring.
abundant.

Aristida dichotoma Mill. Bull Run Mt., Va
dry. Prince William Co.
In old field near
Oct. 5, 1938
H.A. Allard.

5670 *Allen's cabin* - ie
(2) with # 5669.
very abundant in
thin soil; mostly
cast.

5671 *Panicum agrostoides* Spreng.
(1) abundant - nearly past - ditto
in moist spot just south of
Allen's cabin - near # 5670

5672 *Eragrostis putinaea* (Michx.) Nees
(1) In old field near
5670; abundant;
more showy purplish.

5673 *Prenanthes trifoliata*
var. *virginiana* Pursh.
(1) Roadside west of deep cut
west of Antioch & mile on Hopewell Gap
road; full bloom.

5674 *Bidens vulgata* Greene
(1) In dry soil by roadside
beside # 5673.
abundant.

5675 *Linum*
(1) In old field near
5670.
abundant; past flower.
Cathartolimon virginianum (L.) Reichenb.

5676 *Panicum*
(1) Roadside opposite
Castell's
= *P. dichotomiflorum* Michx.
Bull Run Mt., Va
Fauquier Co.
Hopewell Gap, Va
Oct. 9, 1938
H.A. Allard.

Panicum capillare L. Bull. Run Mt., Va.
Fauquier Co.
In open near
Castello's quarry at H.G. Allard
5677 Haperell Gap
(purple panicles)

5678 *Eupatorium aromaticum* L. ditto
Edge of woods at upper edge of high
wooded edge field near Small's Oak.
Smith of Haperell Gap.
a colony here: full bloom.

5679 *Eupatorium altissimum* L. ditto
(2) woods of west slope below
High Point. Full bloom

5680 *Eragrostis capillaris* (L.) Nees. ditto
(3) open ground near Castello'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 covered with silvery hairs 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.
Fauquier Co.
rays blue -
in thicket of old Smith of Haperell Gap
5684 field below
(2) High Point; abundant. H.G. Allard.
Oct. 9, 1938

Physalis ipocarpa Brit. ditto
5685 in same waste field with
(2) # 5684: abundant; fruit
agreeable in flavor
(Ident by C. V. Morton)

5686 *Aster paniculatus* Lam. ditto
(3) roadside near Castello's
abundant: full bloom; rays
pale blue.

5687 *Muhlenbergia schreberi* Comel. ditto
(2) in damp shale (open)
see *Lechisia angustoides* smooth
grass - ie near old Black Walnut
tree just west of Haperell - Broad Run
Station highway: abundant.

5688 *Prunus nigra* forma *globosa* Allard ditto
(1) in old field south of Haperell Gap.
see Hottel. I have named this
forma *globosa*. a very beautiful
even growing, rounded
tree.

5689 *Aster puniceus* 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
Haperell Gap near old Riley Cabin.
rays reddish purplish: abundant.

Eupatorium aromaticum L. Bull Run Mt., Va.
Fauquier Co.
Edge of woods
at upper limit
5691 of high brown edge, South of Hopewell Gap.
(3) near small oak field
a large colony here: full bloom.

5692 *Solidago ulmifolia* Michx.
in woods near # 5691 ditto
full bloom.

5693 *Lespedeza virginica* (L.) Britton
in high brown edge field ditto
beyond Riley cabin (1937)
abundant in some stands of
A. scoparium here.

5694 *Lespedeza procumbens* (L.) Britton
in same brown edge field with # 5693. ditto
scattered here: less abundant
than # 5693 as grass is taller.

5695 *Panicum gottingeri* Nash.
in high brown edge field near # 5693 where
thin stand of *Andropogon scoparium*. ditto

5696 *Andropogon scoparium* Michx.
in old field near where
Riley's lived 1937. (beyond Costello's.) ditto

5697 *Aster pilosus* var. *demotus* Blake
(2) in Costello's old field planted
1936 - where some
Full bloom: very abundant.

Aster paniculatus Lam. Bull Run Mt., Va.
Fauquier Co.
in Costello's old field
near # 5697: abundant. Oct. 9, 1938
5698 full bloom. Smith of Hopewell Gap.
(1)

5699 *Aster lateriflorus* (L.) Britton
in old field near Riley's cabin (1937): abundant here.
full bloom: rays reddish pinkish.

5700 *Aster paniculatus* Lam.
(3) By roadside between
Costello's & Omer's properties.
rays bluish: full bloom. ditto

5701 *Aster pilosus* var. *demotus* Blake ditto
(1) Growing near # 5699.
Very abundant.

5702 *Aster paniculatus* Lam.
(1) By roadside near # 5700 ditto

5703 *Digitaria inchoerum* (Schreb.) Michx.
(1) In roadway descending
past Costello'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.
leaves broad.

Vitis aestivalis Michx. Bull Run Mt., Va.
woods below High Point, Transquiere Co.
near Hagerell Gap. Smith of Hagerell Gap.
5705 Broad Run Sta. Highway H.A. Allard
fruit black with Oct. 9, 1938
brown agreeable.

#5606-4 #5707 collected Oct. 11, 1938 at Bull Run Mt., Va.

5706 *Solidago bicolor* L. with deep yellow
(1) rays. This plant appeared in a
progeny from a normal cream-rayed
plant from Big Cottle Mt., Transquiere Co., Va.
1937. seed sown in flat pot on 11-15-37. To soil house
12-15-37. By 1-12-38. To trough 3-15-38. To soil house 4-12-38.
Test seed 5-25-38. Pollen 9-22-38. at 28 in

5707 *Solidago bicolor* L. with typical cream-colored
(1) rays. Sister plant in same progeny with
#5706. and growing in field first 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-
rayed 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. By 1-12-38. To soil & tests 5-4-38.
When sown 2 in. across. This was 14 hours dry. 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-rayed 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 normal
Pollen 9-22 at 28 in collected Oct. 13, 1938
#5708 & #5709 given to J.F. Blake H.A. Allard

5710 *Solidago bicolor* L.
(3) rays white. Big Cottle Mt., Va.
on crest of mt. along Transquiere Co.
paths, and along road west of Marshall, Va.
on west slope; abundant. Oct. 10, 1938
H.A. Allard.

5711 *Solidago bicolor* L. a form
(8) (rays yellow) ditto
abundant with #5710 on top of
same road on west slope, often
intermingled closely
should be recognized as distinct from
true *bicolor*.

Mass
on outcropping granitic
ledges of west slope.
5712
(1)

Big Cottle Mt., Va.
Transquiere 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 alticaefolium* (Ridg.) ditto
(1) on wooded slope well up
and on top; abundant; full bloom.

5715 *Chrysanthemum leucanthemum* Bull Run Mt., Va.
var. *hymenale* (Muhl.) P. Tam
in Castell's field near Hagerell Gap, Transquiere Co.
(1) stone under site. a tiny
seedling plant 3 1/2 in. tall, with
head scarcely 1/2 in. across, 5-6 diminutive
rays; leaves very tiny; old full-sized
plant somewhat in flower; also young
buds (best yellow).

5716 *Cladonia* (red heads)
on soil on Castell's quarry ridge
in chestnut oak woods - some
Pine, pine: abundant
= *C. cristatella* f. *vestita* Tuck. Bull Run Mt., Va.
Transquiere Co.
Dec. 11, 1938
Smith of Hagerell Gap
H.A. Allard.

5717 *Cladonia mitrula* f. *imbricatula* (Nyl.) Wain. ditto
(cream-colored heads)
on soil with #5716

5718 *Cladonia* sp. ditto
on soil with #5716
(sterile, not determinable)

Cladonia strepsilis (Ach.) Nais
fine foliose type as in *C. apodocarpa*
but finer; abundant
5719 On soil on Castell's quarry
abundant on bare limestone ridge.
In thin chestnut oak woods
with some pine; dry, burned years ago;
much naked sandy soil
Cladonia caespiticia (Pers.) T. Loebl
Cladonia

Bull Run Mt., Va
Fauquier Co.
South of Hagerell Gap
Dec. 11, 1938
H. A. Allard

5720
(1) same loc. with # 5719 ditto
= *C. cristatella* f. *Beauvoisii* (Del.) Nais,
s. *vestita* Tuck.

5721 *Cladonia*
(1) Growing with # 5719 ditto

5722 *Cladonia*
(1) In same loc. with # 5719 ditto
= *C. pleurota* (T. Loebl) 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.

5725 *Cladonia cristatella* f. *vestita* Tuck.
(1) Red apothecia with very
squamulose stipes.) ditto
Growing with # 5719 on soil
5725a in moss *Polypodium*
5725b = *C. pleurota* (T. Loebl) Schaer, probably.

Lichen:
on rocks - a prominent species
in circular mass; color dark
olive green; easily
5726 detached; thin soil
(1) beneath.
= *Anaptychia aquila* (Ach.) Mass.

Bull Run Mt., Va
Fauquier Co
South of Hagerell Gap
on crest of Castell's quarry
ridge. 12-11-38
H. A. Allard

5727 *Cladonia*
5727B = *Leucobryum glaucum* (L.) Schimp.
(1) On soil of Castell's quarry
ridge; abundant in chestnut oak
woods = *C. macilenta* f. *styracella* (Ach.) Nais.
5727a = *C. chlorophaea* (T. Loebl) Spreng.
5727b = *C. pleurota* (T. Loebl) Schaer.

5728 Lichen
(1) *Cladonia cristatella* f. *Beauvoisii* (Del.) Nais
on soil with # 5727 and *C. vestita* Tuck. ditto

5729 *Cladonia caespiticia* (Pers.) T. Loebl
(1) On soil with # 5727. ditto

5730 *Cladonia pleurota* (T. Loebl) Schaer.
(1) On soil with 5727 but not very distinctive.
radial the 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 *apodocarpa* with peripheral brown apothecia

- # *Cladonia*
On soil on Castilla's quarry
at top of old field stone ridge
5733 rock cracks stood -
where spring is.
|| In dry chestnut oak woods
- *C. macilenta* f. *striatella* (Ach.) var. *var.*
5733a = *C. pleurota* (Flörke) Schaer.
5734 *Cladonia*
heads light cream
|| on soil with # 5733 ditto
- *C. mitrula* f. *imbricatula* (Nyl.) var. *var.*
5735 *Cladonia streptilis* (Ach.) var. *var.*
|| on soil with # 5733 ditto
(Similar to *C. afodrocarpa*; finer
abundant here.)
5736 *Cladonia macilenta* f. *stygia* (Ach.) var. *var.*
|| on soil with # 5733 ditto
5736a = *C. pleurota* (Flörke) Schaer.
5737 *Cladonia caespiticia* (Pers.) Flörke
|| on soil with # 5733 ditto
5738 *Cladonia streptilis* (Ach.) var. *var.*
|| on soil with 5733 ditto
Same, finer than *C. afodrocarpa*;
olive green;
over considerable areas of bare soil.
5739 Lichen
|| On rock surfaces as small
black cups
abundant on Castilla's quarry cliffs
near # 5733

Bull Run Mt., Va
Tangier Cr.
Dec. 11, 1938
H.A. Allard

On Castilla's quarry side
just S. of Hufschall Gap.
5733B = *Picramnia*
scotarium (L.) Hedw.

- Lichen,
Near foot of cliffs near
slope: yellowish lead gray
with pinkish cast
around edge; close
cicles on rocks.
abundant,
5740
||
5741 Lichen
(small black dots on rocks) ditto
|| (On cliffs at end of High Point)
abundant.
5742 = *Cladonia caespiticia* (Pers.) Flörke ditto
|| On brickwork bark on tree
on Castilla's quarry ridge
5742A = *Physcia leana* (Tuck.)
5742B = " *adglutinata* (Flörke) Tuck.
5743 Lichen = *Parmelia rudecta* Ach. ditto
|| On same tree with # 5742
5742C = *Caloplaca microphylla* (Tuck.) Hasse
5742D = *Physcia acetabulata* (Lem.) Nyl
5742E = " *endothyssea* (Hampe) Nyl.
5742F = " *stellaria* (L.) Nyl.
5744 Lichen
|| On same tree with # 5742 ditto
= *Caloplaca microphylla* (Tuck.) Hasse
5745 Tiny green mass
|| in small crevices on cliff
of Castilla's quarry ridge,
Very deep green on soil
= *Gymnostomum rupestre* Schleich.
5746 Lichen
|| On same tree with 5742 ditto
= *Cladonia caespiticia* (Pers.) Flörke

Bull Run Mt., Va
Tangier Cr.
High Point cliffs
Dec. 11, 1938
H.A. Allard

Lichen
On bark of Hickory tree
on Castell's quarry cliffs
just S. of Hagerell Gap
spring is

Bull Run Mt. Va
Fauquier Co
Dec. 11, 1938
H.A. Allard

5747 = *Physcia setosa* (Ach.) Nyl.
5747A = }
5747B = } Both same as above,

5748 Lichen = *Cladonia caespiticia* (Pers.) Tuckerm.
|| On same tree - all well above ground
Fine green, close growth; abundant,

5749 Lichen = *Physcia lithotodes* Nyl.
|| On same tree with # 5748.
dark olive grayish green

5750 Moss
|| On same tree with # 5748
= *Platygyrium repens* (Brid.) B. & S.

5751 Lichen
|| On same tree with # 5748

5752 *Cladonia caespiticia* (Pers.) Tuckerm.
|| On bark of same tree mostly thallus
with # 5748; fine, dense, green
growth.

5753 Lichen = *Parmelia rudecta* Ach.
|| On Hickory bark on same tree
with # 5748; also on rocks, cliffs
etc.

Lichen
small, greenish
5754 On Hickory tree bark
just S. of Hagerell Gap
|| On Castell's quarry ridge,
stone fine, high spring is, and
usual stone crusher was.
= *Caloplaca microphyllina* (Tuck.) Hasse.

5755 Lichens (several)
|| On same tree with # 5754
5755B = *Physcia stellaris* (L.) Nyl.
5755A = *Caloplaca microphyllina* (Tuck.) Hasse.
= *Parmelia aurulenta* Tuck.

5756 Lichens
|| On bark of same tree
with # 5754
= *Cladonia caespiticia* (Pers.) Tuckerm.
(no podetia)

5757 *Cladonia* + moss
|| On soil in dry chestnut oak
woods on Castell's quarry ridge
South of Hagerell Gap.
Red heads - Moss =
= *C. cristatella* f. *ochroleuca* = *C. cristatella* f. *brunneovirens* (Del.) Tuckerm.
= *C. cristatella* f. *brunneovirens* (Del.) Tuckerm.
= *C. cristatella* f. *brunneovirens* (Del.) Tuckerm.
= *C. cristatella* f. *brunneovirens* (Del.) Tuckerm.

5758 *Cladonia* Tuckerm.
|| On Moss
same loc. with # 5757
= *C. cristatella* f. *brunneovirens* (Del.) Tuckerm. & *C. cristatella* Tuckerm.

5759 Lichen
Lead gray
|| On same tree with # 5754
Two species; one smaller,
finer.

5760 Usnea-like lichen
|| 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 Castello's quarry cliffs: Tangier Co
 abundant throughout Smith of Hoperell Gap.
5761 on all cliffs ~~on rocks on~~ Dec. 11, 1938
 (1) of Bull Run. On Castello's H.A. Allard

5762 Mass Light yellowish green ditto
 (1) On soil on Castello'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 rock with lichens etc. Has entered these; washed off portions of mat on ground also.

5764 Mass Hyphnum - fern like: yellowish green ditto
 (1) On flat rocks on thin black soil layer at High Point; full of lichens making mats in rocks.

5765 Parella ditto
 (1) (Liverwort) Dark reddish brown mats, easily lifting; slight soil beneath - on flat rocks at foot of High Point cliffs; abundant. full of lichen soredioses.)

5766 Mass (Light yellowish green) ditto
 (1) On soil with # 5762 abundant in banks, or where soil accumulated on rocks etc.

5767 Mass Polytichum (dark green) ditto
 (1) On soil in chestnut oak woods near # 5762: abundant.

Mass. Bull Run Mt., Va
 On flat rocks forming dense mats of pure growth; slight soil beneath. On rocks of Castello's Quarry Ridge. (abundant) (Tallus lichens) color rather yellowish green.)
5768 Dec. 11, 1938 H.A. Allard Tangier Co

5769 Cladonia ditto
 (1) (Perideer, + mass Polytichum) growing in chestnut oak woods on Castello'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 Castello'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 ~~5772c = Cladonia reptans (Hoffm.) Schaer (young plants)~~
~~5772d = C. chlorophaea (Flörke) Spreng, but not a Cladonia (red apothecia more slender than usual)~~

5772a (1) (Mass) = C. cristatella Turb. The sterile ditto something like: don't find all abundant here
 5772b = C. cristatella f. scyphulifera Sandst. P.S. Beauvoisii

5773 Lichen on sandstone Bull Run Mt., Va
 (1) on High Point ridge outcrop. Tangier Co
 Cladonia caespiticia (Pers.) Thell. Dec. 18, 1938 H.A. Allard
 of Hoperell Gap. probably.

5774 Lichen several species ditto
 (1) On sandstone rocks on High Point ridge with # 5773

Lichens
several strips of distinct
on sandstone oaks
5775 ~~some~~ interluffing
on Castell's quarry
ridge

Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap.

Lichens
5776 On rocks (sandstone)
|| on outcrop on Castell's quarry
ridge ditto

5777 *Cladonia furcata* f. *gylindrica* Evans
On vertical rock faces (sandstone)
|| in heavy oak - distinct woods, far
along on High Point ridge outcrops.
Grows in pure colonies and so closely
attached to rocks is very difficult to remove.
(ident. by Evans) my first record here.

5778 *Cladonia neomyxa* (Ach.) Nyl.
|| on sandstone rock faces on
Castell's quarry ridge. ditto
perhaps
doubtful.

5779 Moss = *Dicranum flexum* Hook
|| growing in grass crevices on
sandstone outcrops on Castell's
quarry ridge ditto

5780 *Cladonia cristatella* f. *beamsisii* Del. & Wain.
and f. *vestita* Trunk.
|| In old woods edge field ditto
N. of old mansion at foot of
High Point Ridge, west slope.
between the clumps.
(apothecia red)

5781 *Cladonia piedmontensis* Merr. perhaps
|| Growing with # 5780 ditto
between clumps.
5781a = *C. subcariosa* Nyl.

Cladonia piedmontensis
Growing in same
woods edge 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 Hagerell Gap.
H.A. (Wain.) Robbins

5783 *Cladonia subcariosa* f. *evoluta* Del. & Wain.
(brown apothecia) and f. *squamulosa* Robbins
|| Growing with # 5780 between
woods edge clumps. ditto

5784 *Cladonia cristatella* f. *beamsisii* Del. & Wain.
|| with # 5780 - between
clumps on dead stems
of old clumps that have died
(apothecia red) ditto

5785 *Cladonia verticillata* (mostly) f. *aggregata* Del. & Wain.
|| (on soil)
with # 5780 on soil ditto
between clumps.

5786 *Cladonia verticillata* f. *evoluta* Del. & Wain.
|| with # 5780, between
clumps. ditto

5787 *Cladonia cristatella* f. *beamsisii* Del. & Wain.
|| with # 5780 between
clumps in old woods edge
field. ditto
(apothecia red; podetia
very squamulose)

5788 *Cladonia cristatella* f. *ochroleuca* Trunk.
and f. *squamulosa* Robbins.
|| (apothecia cream colored; a few red) freshly young
with # 5780 between clumps. ditto

Cladonia subcariosa f. *evoluta* Bull. Run Mt., Va.
in old browned edge field ^{near} Tranquien Cr
N. of old mansion
5789 in woods, near slope Dec. 18, 1938
below High Point. H.A. Allard
growing in interspaces South of Hagerell Gap,
between clumps
apothecia dark brown or black

5790 *Cladonia cristatella* f. *hearniisii* (Del.) ^{Wain} ditto
apothecia red. and f. *vestita* ^{Trunk}
with # 5789 between clumps

5791 *Cladonia cristatella* f. *hearniisii* (Del.) ^{Wain} ditto
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* Sand. ditto
(apothecia red) and f. *hearniisii* (Del.) ^{Wain}
on basal stems etc. as for
5789 and near it
= *scyphulifera*

5793 *Cladonia verticillata* f. *evoluta* (Th. Fr.) ^{Stein} ditto
with # 5789 between clumps on soil
5793a = *C. cristatella* f. *vestita* Trunk.

5794 Moss ditto
on sandstone rocks
on Castello's quarry ridge

5795 Moss - *Sicranum florum* Hook. ditto
in crevice of cliffs of
sandstone in heavy oak-chestnut
woods on Castello's quarry cliffs
near # 5794

Cladonia ? Bull Run Mt., Va.
(dark olive green) Tranquien Cr
on chestnut oak Dec. 18, 1938
5796 tree bark (lining) H.A. Allard
on Castello's quarry ridge. South of Hagerell Gap.
5796a = *C. caespiticia* (Pers.) Floerke, probably not distinct.
5796 = *Physcia setosa* (Ach.) Nyl.

5797 *Cladonia verticillata* f. *evoluta* (Th. Fr.) ditto
by interspaces in same ^{Stein}
browned edge field with # 5789
on soil
5797a = *C. subcariosa* f. *evoluta* (Th. Fr.) ^{Stein} and
f. *squamulosa* Robbins.

5798 Lichen = *Physcia setosa* (Ach.) Nyl. ditto
(dark gray)
on lining chestnut oak tree bark
on High Point Ridge in heavy
oak-chestnut woods.

5799 Lichen = *Physcia setosa* (Ach.) Nyl. ditto
on bark of chestnut oak
tree lining near # 5798
5799A = *Physcia stellaris* (L.) Nyl.

5800 *Cladonia caespiticia* (Pers.) Floerke ditto
on rocks (sandstone)
on Castello's quarry ridge in
heavy oak-chestnut woods.

5801 Lichen (gray) ditto
on bark of chestnut oak tree
lining near # 5798
= *Pertusaria multipunctata* (Turn.) Nyl.

5802 Moss and Lichen (black) ditto
on sandstone cliff near
5800.

Lichen
On bark of living
chestnut oak tree
5803 on High Point Ridge
(1) crest.
Pertusaria pertusa (L.) Tuck.
Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerwell Gap

5804 *Cladonia horbonica* f. *cylindrica* Hoffm.
(1) On outcropping sandstone
cliffs on Castello's quarry ridge
ditto

5805 Moss
(1) On sandstone cliffs
interfing with # 5804
ditto

5806 Moss = *Dicranum flexum* Hook.
(1) In crevice on limestone cliff
(sandstone) outcrops on
Castello's quarry ridge
ditto

5807 Lichen = *Pertusaria 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
In old iron-edge field
with # 5789 on soil
5810 and on dead basal
(1) stems of dead
chinquapin
= *C. midmontensis* f. *lepidifera* (Wain.) Roffm.
Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerwell Gap

5811 Lichen
(1) On sandstone rocks
on High Point ridge.
(light green; *Parmelia*?)
ditto

5812 Lichen = *Dermatocarpon*
(gray) *miniatura*
(1) On flat rock near
High Point cliffs in
heavy oak-chestnut woods.
ditto

5813 *Cladonia* ~~maileuta~~ *maileuta* Hoffm.
(1) several 5813a = *C. cristatella* f. *scyphulifera*
one red apothecia
one - slender, pointed " but not distinctive
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., in
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 granulose.
on soil with # 5815
ditto

Mass
on Castellos quarry
ridge in crevices
on interlocking sandstone
5817 cliffs. in heavy
oak-chestnut woods.
= *Gymnostomum rupestre* Schlecht.
Bull Run Mt., Va
Fauquier Co.,
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5818 *Cladonia papillaria* S. molariformis (Hoffm.) Schaer.
ditto
on soil in thin oak
woods on Triassic Area
near Antioch, Va.
Prince William Co.

5819 *Cladonia bailliana* (Ach.) Nyl.
ditto
on soil in same woods
near #5817

5820 Moss on
sandstone rocks.
near #5817 ditto

5821 Lichen
+ moss
on sandstone cliffs
near #5817 ditto

5822 *Cladonia psoralea* (Pers.) Thoenes
ditto
on bark of living Chestnut tree
on Castello's quarry ridge
near #5817.

5823 Lichen, thin foliose, black.
ditto
on flat rocks near
#5817.
Collema glaucescens Hoffm.

Cladonia
In old browned field
with #5789
5824 between clumps.
H.A. Allard
South of Hagerell Gap.
5824a = *C. verticillata* S. exoluta (Th. Fr.) Steyer
C. subcariosa Nyl. and
C. cristatella Tuck. (Both scanty.)

5825 *Cladonia*
on sandstone rock face ditto
Padetia pointed, white; squamulæ
rubbed off.
on rocks (sandstone) on Castello's
quarry ridge near #5817

5826 Lichen (black)
ditto
very common
on rock interf near
#5817

5827 Lichen = *Physcia setosa* (Ach.) Nyl.
ditto
on bark of chestnut oak
tree in heavy chestnut-oak
woods near #5825
5827a: *Physcia setosa* (Ach.) Nyl.

5828 Moss
ditto
long fern-like fronds; very
beautiful.
on sandstone rocks - on same ridge
near #5825

5829 Moss
ditto
on sandstone rocks
on same ridge with #5825

5830 Moss in rock crevices
on cliff = *Dicranum plenum* Hook
ditto
near #5825

5837 *Leucobryum albidum* Bull. Rm. Mt., Va.
 11 + *Cladonia coneracea* f. *crat.* Prince Williams
 competing with it. On soil under Dec. 26, 1938
 ridge east of High Point Ridge S. of H.A. Allard
 of Haverell Gap $\frac{1}{2}$ mile in thin (decid.)
 woods of oak, *Pinus rigida* etc. Vain.
 5837a - *Leucobryum flavum* (L.) Schimp.

5844 ~~At~~ ~~on~~ ~~Heter~~
 (1) on bank at base of tree ditto
 near # 5839
 = Lophoclea heterophylla (Schrad.) Dum.

Cladonia papillaria f. *molariformis* (Hoffm.) Schaer Bull Run Mt., Va
on soil on crest of dry, wooded ridge east of Prince William Co
Dec. 26, 1938
5845 High Point Ridge, H.A. Allard.
" S. of Hapenell Gap $\frac{1}{2}$ mile
(near # 5838)

5846 *Cladonia papillaria* f. *molariformis* ditto
" on soil with # 5845 and f. *papillosa* (Hoffm.) Schaer
abundant.

5847 *Cladonia grayi* Mer. young plants. ditto
" 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
" on soil near # 5845
sterile squamules probably of *C. clauilifera* Wain

5849 *Cladonia caespiticia* (Pers.) Floerke ditto
" on bark or dead log near # 5847

5850 *Cladonia* ditto
" on soil near # 5845

5851 *Cladonia squamosa* (Scop.) Hoffm. and *C. cristatella* Tuck. ditto
" on soil near # 5845
Probably a mixture (a trace)

Cladonia squamosa (Scop.) Bull Run Mt., Va
On old log Prince William Co
Dec. 26, 1938
5852 near # 5845 H.A. Allard.
" mixture probably
this but none very distinctive.

5853 *Cladonia macilenta* f. *styracella* (Ach.) Wain. ditto
" on soil on banks near # 5847

5854 *Cladonia* ditto
" on soil near # 5845

(very abundant over large areas on
burned bare soil.)
5855 = *C. papillaria* f. *molariformis* (Hoffm.) Schaer
" Mass = *Thelia asprella* (Schimp) Sull. ditto
on bark of living tree
at base near # 5847

5856 Mass ditto
" 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
" near # 5845

5858 *Cladonia squamosa* (Scop.) Hoffm. ditto
" on old distant log decayed
near # 5845

Cladonia calycantha Del. Bull Run Mt., Va
on soil in oak-chestnut
woods on east slope of
5859 High Point Ridge telm. Prince William Co.
High Point, $\frac{1}{2}$ mile S. Dec. 26, 1938
of Hagerell Gap nearby. H.A. Allard.
young plants
probably.

5860 *Cladonia papillaria* f. *molariformis* (Hoffm.) Schaer. ditto
" on dead log near # 5845
very squamulose.

5861 *Cladonia coniocraea* f. *ceratodes* (Laerke) 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 streptilis (Ach.) Wain. Bull Run Mt., Va
on soil near Prince William Co.
Dec. 26, 1938
5866 # 5845 H.A. Allard.
" "

5867 *Cladonia* on soil with # 5845 ditto
" = *C. papillaria* f. *molariformis* (Hoffm.) Schaer

5868 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
" on soil 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
|| east slope, $\frac{1}{2}$ mile S. of Hapwell Gap,
in oaks - chestnut woods
= Cladonia strepsilis (Ach.) Vain. = thallus.
The cup is pleurota (Floerke) Schaer.
- 5874 Cladonia
|| on soil in oaks - chestnut woods on dry crest of ridge east of High Point Ridge $\frac{1}{2}$ mile S. of Hapwell Gap.
- C. hapiilaria f. molariformis (Hoffm.) Schaer. (near # 5875)
5875 = Cladonia hapiilaria f. hapiilaria ditto
|| Near # 5875
- 5876 Cladonia nidmontensis f. lepidifera ditto
|| On dead wood (log) on ridge near # 5875
- 5877 Cladonia strepsilis (Ach.) Vain. ditto
|| on soil near # 5875
- 5878 Cladonia cristatella Tuck ditto
|| (red apothecia) on dead wood near # 5875
+ C. squamosa (Scop.) Hoffm.
- 5879 Cladonia caespiticia (Pers.) Floerke ditto.
|| 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 mosses Polytrichum Prince William Co.,
Dec. 26, 1938
H.A. Allard.
- 5880
|| on soil near # 5874
- 5881 Peltigera horizontalis (Huds.) Baumi ditto
|| on soil on rocks near # 5873
- 5882 Cladonia squamosa (Scop.) Hoffm. ditto
|| on soil near # 5874
- 5883 Moss ditto
|| On bark of tree on same side and near # 5874
- 5884 Cladonia coniocraea f. truncata (Floerke) Vain. ditto
|| very pointed, with whitish tips on soil on rocks near # 5874
- 5885 Cladonia mitrula f. intricatula (Kyl.) Vain. ditto
|| on bare soil on same ridge with # 5874
- 5886 Cladonia coniocraea f. aratodes (Floerke) Vain. ditto
|| 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
" s. of Hofferell 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
" on soil near # 5887
not very distinctive.

- 5889 *Cladonia Lophocolea heterophylla* (Scop.) Th. & M. ditto
" Hepatic Moss
on bark of tree near # 5887
mostly dead.

- 5890 *Cladonia* (a) *squamosa* (Scop.) Hoffm. ditto
" on west slope of ridge below
diffs on same ridge near
5887 - on old chestnut log.
same as # 5860 & 5870 (see)

- 5891 *Cladonia caespiticia* (Pers.) Th. & M. ditto
" on soil near # 5887

- 5892 *Cladonia*
" sharp-pointed, whitish tips ditto
" on bark of decayed
log (same as # 5884).

- 5893 *Cladonia squamosa* (Scop.) Hoffm. ditto
" 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

" *squamosa* (Scop.) Hoffm. but not very
distinctive.

- 5895 *Cladonia grayi* Mez. ditto
" on same ridge near
5887

- 5896 *Psoralea rosea* Pers. ditto
" on soil on crest of castle
granary ridge near spring; very
abundant in woods & bare areas
of soil here.

- 5897 *Cladonia coniocraea* f. *ceratodes* (Th. & M.) Kain. ditto
" sharp pointed apothecia with
whitish tips, same as # 5892
5897a = *Cladonia mitrula* f. *imbricatula* (Kain.) Kain.
(young)

- 5898 *Cladonia*
" sharp pointed apothecia with
whitish tips (same as # 5892,
5897. = *C. coniocraea* f. *ceratodes* (Th. & M.) Kain.

- 5899 Lichen ditto
" Pine colonies of small
black dots on sandstone
rocks. very tiny to
beak dots size of pin head
very abundant on ridge near # 5887

- 5900 Moss ditto
" 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 lifting up from the rock; color dark green (abundant)

- 5903 Moss forming extensive mats (this) on rocks, banks etc. in woods near # 5901. ditto
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; fronds fern-like. Very beautiful; abundant.

- 5906 Moss *Catharina*? on rocks near # 5901. ditto
color light shining green; leaves delicate. abundant in damp places, woods etc.

- 5907 Mosses Two on dead wood on old logs in woods near # 5901. ditto

Moss on dead log in woods near # 5901

- 5908 abundant.

Bull Run Mt., Va
Prince William Co
Dec. 26, 1938
H.A. Allard.

- 5909 Moss on dead stump in woods near # 5908. ditto

- 5910 Moss on decayed log in woods near # 5901. ditto

- 5911 *Cladonia* one of reindeer mosses. ditto
on crest of ridge east of High Point ridge 1/2 mi. S. of Haysville Gap. in thin pine stand here = *P. rigida*, and *P. muscigena* mostly

- 5912 *Cladonia rangiferina* ditto
Growing beside # 5911. Not common in Bull Run Mt.; very local. on pine duff and bare soil here. This specimen was found. (My first record for Bull Run Mt.)

- 5913 *Cladonia* (reindeer moss) ditto
growing with # 5912 abundant.

- 5914 *Cladonia rangiferina* ditto
growing with # 5912.

Cladonia bailliana (Ach.) Nyl. Bull Run Mt., VA
on rotten wood
on ridge N.E. of Beverly Mill January 1, 1939
east of valley road
just N. of railroad. Prince William Co.
H.A. Allard

5915 a thin pine stand
of *Pinus virginiana* here. Hatched
lived on much bare soil covered with
lichens - *Cladonia*, tiny red *apothecia*
at tip of recurved British scrobiculate podetia

5916 *Cladonia grayi* f. *squamulosa* Sandst. ditto
on soil near # 5915
cupae, very proliferous, very squamulose

5917 *Cladonia cristatella* Tuck. ditto
apothecia red
on soil with # 5915

5917A: *C. grayi* f. *squamulosa* Sandst. wain
KT P+

5918 *Cladonia mailevta* f. *styracella* (Ach.) wain
same sh as # 5915. ditto
on old log with it
and *C. coniocraea* (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
f. *forma*.
on soil near # 5915

Cladonia grayi Mer.
some cups, very
squamulose.

5922 same with brown apothecia
on soil near # 5915

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.) Hoffm. ditto
verticillata but not distinctive.
near # 5915 on soil

5924a: *C. subcariosa* f. *squamulosa* Hoffm.

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
near # 5915
mailevta f. *styracella* (Ach.) wain

Bull Run Mt., VA
January 1, 1939
Prince William Co.
H.A. Allard

Cladonia strepsilis (Ach.) Vain. Bull Run Mt., Va
on soil
In pine grove on ridge just N. of mill road Prince William Co
road here - E of Beverly Mill)
H.A. Allard, 1939
|| apothecia brown; podetia very squamulose

5930 *Cladonia strepsilis* (Ach.) Vain. ditto
|| apothecia brown
(very squamulose)
on soil near # 5929.

5931 *Cladonia verticillata* f. *thylocephala* (Flörke) Polz. ditto
|| very proliferous
apothecia brown
on soil near # 5929

5932 *Cladonia papillaria* f. *stipitata* Thöerke ditto
|| on soil near # 5929

5933 *Cladonia bailliaris* (Ach.) Nyl. P. and *Cladonia* ditto
|| on rotten wood near # 5929
← *conivraea* (Thöerke) Sandz f. P+

5934 *Cladonia mailecta* f. *styracella* (Ach.) Vain. ditto
|| on humus soil near # 5929

5935 *Cladonia strepsilis* (Ach.) Vain. ditto
|| On soil near # 5929.

Cladonia clavulifera Bull Run Mt., Va
on humus soil
near # 5929
5936
||
f. *subvestita* Robbins

5937 *Cladonia clavulifera* f. *indicanlis* Evans ditto
|| (apothecia brown)
on soil near # 5929
mostly

5938 *Cladonia subcariosa* Nyl ditto
|| mostly *podocarpa*?
on soil near # 5929

5939 *Cladonia clavulifera* 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. *beauvoisii* (Flörke) Vain.

5941A: *C. mailecta* f. *styracella* (Ach.) Vain.
5942 *Cladonia grayi* Mer. ditto
|| On soil near # 5929

Cladonia
In pine grove just N. of
railroad blm (E) of
Borerly Mill rd
5943 E of valley road here.
Bull Run Mt., Va
January 1, 1939
Prince William Co
H.A. Allard

(1) on soil
= Cladonia chlorophaea f. lepidophylla (Thoenke) Sandst (P+)
and C. grayi f. squamulosa Sandst

5944 → Cladonia cristatella f. vestita Tuck. ditto
apothecia red
(1) + one with cups
5944A, podetia branched above (with red
and apothecia)
= C. grayi f. simple Robbins

5945 Cladonia grayi f. simple Robbins ditto
(1) on humus soil cups
Near # 5943
and C. grayi f. squamulosa Sandst.

5946 Cladonia chlorophaea f. carpathica (Thoenke) ditto
(1) on humus soil with # 5943

5947 Cladonia verticillata f. phyllocephala (Thoenke) ditto
verticillata forma. and a trace of C. grayi Mer.
(1) 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
podetia much branched above
(1) 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
H.A. Allard
5950 on soil near # 5943
(1) molariformis (Hoffm.) Schaer.
apothecia f. stipitata Thoenke.

5951 Cladonia verticillata f. phyllocephala (Thoenke) ditto
verticillata forma
(1) Growing near # 5943
5951A = C. grayi Mer.

5952 Moss
thronish colored
(1) on dead wood near # 5943 ditto

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 (Thoenke) Schaer. mostly

5955 Cladonia grayi Mer. mostly ditto
(1) same sp. as # 5951
with # 5943
also large stalks of C. verticillata f. phyllocephala (Thoenke) Schaer. present

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* S. exalta (Th. Fr.) Steyer.
 5957a = " *verticillata* f. *phyllocephala* (Th. Fr.) Bull. Rm Mt., Va
 in 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 railroad.

This extends to an old pine yard and
 back grove a few hundred yards east
 of old cellar site where drip runs from
 stood - and large black walnut tree.

5958 *Cladonia streptilis* f. *coralloidea* (Ach.) Wain.
 (1) (apothecia brown)

1000 ft. 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.

5960 Hepatic: *Scapania nemorosa* (L.) Dum.

(1) On soil in oak-chestnut woods
 on east slope of High Point ridge
 near Berkeley Mill.

5961 *Cladonia* ?

(1) crustose, yellowish green
 on same rock shelf with # 5959

5962 *Cladonia*
 (very squamulose)

(1) on soil with # 5960
 = *Cladonia streptilis* f. *coralloidea* (Ach.) Wain.

5963 Moss or hepatic
 on soil in woods on High Point
 ridge (east slope) near High Point
 north of Berkeley Mill 1 1/2 miles.
 = *Scapania nemorosa* (L.) Dum.

Cladonia

on soil with

5964 # 5959

(1)

Cladonia coniocraea f. *ceratodes* (Flörke) Wain.

Bull Rm Mt., Va
 January 1, 1939

H.A. Allard

Prince William Co.

5965 Moss
 on rotten wood in oak
 chestnut woods near High Point

5966 *Cladonia rangiferina* (L.) Web. ditto
 on rock shelf with # 5959

(1) My second record, first for High Point
 See # 5912

5967 *Baeomyces* (thallus)
 + liverwort or moss
 = *Scapania nemorosa* (L.) Dum.
 (1) Near # 5960

5967a = *Pertusaria 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 -

5970 Moss
 (1) on dead wood on east slope
 of High Point ridge near # 5963

Cladonia

In mine gorge on ridge
1/2 mile N. of road and
1/2 mile S. of valley road
crossing trunk
1/2 mile S. of (last) of Berkeley Mill

Bull Run Mt., Va
January 1, 1939
Prince William Co
H. G. Allard

5971 *Cladonia chlorophaea* f. *lepidophora* (Tilberke) Saccard.
(P+)

5972 *Cladonia*

1/1 on soil with # 5971

ditto

= *C. grayi* f. *simplex* Robbins. (P-)

5972a = *C. mitrula* f. *imbricatula* (Nyl.) Wain.
5972b = *C. stipitata* f. *coralloidea* (Ach.) Wain.

5973 *Cladonia*

5973a = *C. chlorophaea* (Tilberke) Spreng. (P+)

ditto

1/1 on soil with # 5971
5973b = *C. chlorophaea* (Tilberke) Spreng. f. *grayi* Mer. (P)

5973c = *C. verticillata* f. *phyllocephala* (Thot.) Ohis

5973d = " f. *evoluta* (Th. Fr.) Stein and f. *apotieta* (Ach.) Wain.

5974 *Cladonia*

5974a = *C. grayi* Mer. (P)

ditto

on soil near # 5971

= *C. verticillata* f. *evoluta* (Th. Fr.) Stein.

5974b = " f. *evoluta* (Th.) Fr. Stein.

5975 *Cladonia*

1/1 on soil near # 5971

ditto

= *C. grayi* f. *simplex* Robbins. (P)

5976 *Cladonia*

1/1 5976a = *C. verticillata* f. *phyllocephala* (Thot.) Ohis, ditto

on soil near # 5971

= *C. verticillata* f. *phyllocephala* (Thot.) Ohis.

5976b = " P.P. f. *apotieta* (Ach.) Wain.

5977 *Cladonia*

1/1 on soil near # 5971

ditto

Cladonia

on soil near

5978 # 5971

1/1

Bull Run Mt., Va
January 1, 1939
H. G. Allard
Prince William Co.

5979 *Cladonia*

1/1 on soil near # 5971

ditto

5980

Cladonia tenuis (Tilberke) Harm. ditto

1/1

on soil near # 5971

5981

Cladonia

1/1

on soil near # 5971

ditto

5982

Cladonia
(apothecia of one sp. red)
Near # 5971

1/1

ditto

5983

Cladonia

1/1

on soil near # 5971

ditto

5984

Cladonia

1/1

on soil near # 5971

ditto

Cladonia Bull Run Mt., Va
Empire gorge just north of railroad on Prince William Co
5985 ridge just east of H.A. Allard
" of valley road crossing
Trunks below east of Beresley Mill.

5986 Cladonia ditto
" On soil with # 5985

5987 Cladonia ditto
" On soil near # 5985

5988 Cladonia ditto
" On soil near # 5985

5989 Cladonia (apothecia red) ditto
" On soil near # 5985

5990 Cladonia ditto
" very squamulose
On soil near # 5990

5991 Cladonia ditto
" On soil near # 5985

Cladonia cristatella (apothecia red) Bull Run Mt., Va
January 1, 1939
5992 Prince William Co
H.A. Allard.
" On soil near # 5985 and S. leucosia (Pol.) Vain
and 5992 A = C. cristatella f. vestita Tuck
5992 B = C. chlorophaea f. simple (Hoffm.) Arn. P+

5993 Cladonia ditto
" On soil near # 5985

5994 Cladonia caespiticia (Pers.) Th. Overke ditto
" On soil near # 5985
5994 A = C. apodocarpa Robbins mostly.

5995 Cladonia papillaria f. stipata Th. Overke ditto
" On soil near # 5985

5996 Cladonia ditto
" On soil near # 5985

5997 Cladonia ditto
" On soil near # 5985

5998 Cladonia ditto
" On soil near # 5985

6012 *Cladonia*
 11 on soil near X 5999 ditto

Cladonia
2 pine woods on ridge just East of
6013 of valley road where it crosses railroad klm
Beverly Mill.
on soil near #

Bull Run Mt., Va
January 1, 1939
H. G. Allard
Prince William Co

6014 Cladonia
|| on soil near # 6013
(apothecia brown)

ditto

6015 Cladonia
|| on soil # 6013
(red apothecia; very squamulose)

ditto

6016 Cladonia
|| on rotten wood
near # 6013

ditto

6017 Cladonia subcariosa f. squamulosa Hoffm.
|| on soil near # 6013
6017A = C. chlorophaea (Thoenke) Spreng. and C. neurota (Thoenke) Schaer (cup) and C. subcariosa Nyl.
6017B = C. grayi Mer.

ditto

6018 Cladonia grayi f. simplicifolia Hoffm.
|| on soil near # 6013

ditto

6019 Cladonia verticillata (Hoffm.) Schaer
(apothecia red) distinctive as to form.
on soil near # 6013

ditto

Cladonia Bull Run Mt., Va
on soil near # 6013 H. G. Allard
January 1, 1939
Prince William Co

6020

||

6021 Cladonia
|| on soil near # 6013

ditto

6022 Cladonia verticillata (Hoffm.) Schaer
|| (apothecia brown) not distinctive as to form.
on soil near # 6013

ditto

6023 Cladonia mitrula f. intricatula (Nyl.) Raim.
|| (apothecia brown)
on soil near # 6013

ditto

6024 Cladonia
|| on soil near # 6013

ditto

6025 Moss
|| on dead wood near # 6013

ditto

6026 ~~Moss~~ = Scleraria nemorosae P.
|| Hepatic. on soil near # 6013
Cladonia Mixture of lads. not def. enough to det.

ditto

Cladonia
on soil in thin pine
wood on ridge N.E. of
6027 Bererley Mill

Bull Run Mt., Va
Prince William Co
January 1, 1939
H.A. Allard

" near railroad
" this just east of valley road leading to
Hoffnell Gap below Castillo's

6028 Cladonia baillensis (Ach.) Nyl. (podetia narrow)
" (on thin soil near # 6027 ditto
and C. caespiticia (Pers.) Thöerke. mostly

6029 Moss
" on soil and rotten wood ditto
with # 6027

6030 Cladonia verticillata (Hoffm.) Schaer. Wat
" on soil near # 6027 ditto
distinctive as to form.

6031 Cladonia
" on soil near # 6027 ditto

6032 Cladonia
" on soil near # 6027 ditto

6033 ~~Cladonia~~ ~~reindeer moss~~
" (hectarian, low, compact) ditto
" 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
" ridge near High Point

Bull Run Mt., Va
Prince William Co
January 1, 1939
H.A. Allard

6035 Lichen
" Large, lead gray. on ditto
old stump. very abundant
on trees, stumps, rocks etc.
near # 6034.

6036 close growing dark green mass
" 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 species of the mass

6037 which had actually overgrown the mass
" I.C.M. at point of contact, preventing its spread,
" same mass as # 6036, with ditto
lichen competing with it = sp. of

This lichen common on rocks, trees etc.

6038 Rock lichens
" on sand stones & quartzites (recently, ditto
Cambrian) at High Point, Fauquier Co
North of Bererley Mill 1 1/2 miles.

6039 Rock lichens
" on same cliffs with # 6038 ditto

6040 On rock lichens
" 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

6041
1) Rock lichens
growing with # 6041

ditto

6042
1) Rock lichens
growing with # 6041

ditto

6043
1) Rock lichens
growing with # 6041

ditto

6044
1) Rock lichens
growing with # 6041

ditto

6045
1) Rock lichens
a dense, black series in
patches, appearing like smelt
patches on the rocks: very abundant
near # 6041

ditto

6046
1) Moss: silvery color
In crevices of rock outcrops
directly in front of Beverly Mill
across railroad on cut here.

ditto

Moss
In rock crevices
near # 6047

6047
1)

Bull Run Mt., Va
Fauquier Co
January 1, 1939
H.A. Allard

6048
1) Moss
(green)
In same place near # 6047

ditto

6049
1) Moss
In same place near # 6047

ditto

6050
1) Moss
In rock crevices near
6047

ditto

6051
1) Moss
In rock crevices near
6047

ditto

6052
1) Moss
In rock crevices near #
6047

ditto

6053
1) 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 Hatfield 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, 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 at first
East of valley road to
Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co
Hafersell Gap.

6065e = *Cladonia squamosa* f. *phyllotoda* (Pat.) J. H. H.
6065 f = " " " " " "
6065 g = " " " " " "

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)
(1) common in pine woods
near # 6055; a common species
here

6064 Moss
(1) *Leucobryum albidum* ditto
In crevices on cliffs at High Point,
often completely filling them with
this moss on nearly vertical walls
so a line of green down the rock face.

6065 *Cladonia squamosa* (Scf.) Hoffm. Not distinct as to form.
Bull Run Mt., Va
January 8, 1939
(18) on damp rocks
sloping to horizontal, Tanquer Co
loosely on humus soil
at foot of High Point cliffs, H.G. Allard,
1 mile S. of Hafersell Gap very squamulose,
dense mats. *Podetia* spider hollow at
tip of 6065g. *C. squamosa* (Scf.) Hoffm.
6065b = 6065g. Not distinctive as to form.

6066
(1) *Cladonia* same as 6065, but "C. squamosa" f. *lanariella* J. H. H.
growing over and completely
smothering the moss with a
dense mat of squamules
for 3 cm. moss completely hidden
by 6065b. = *Cladonia squamosa* (Scf.) Hoffm.

6067
(2) Lichen (crustose)
on soil on rock shelf below
High Point cliffs ditto

6068
(1) *Cladonia squamosa* (Scf.) Hoffm. Not distinct
as to form.
on humus soil on flat of sloping
rocks at foot of High Point cliffs,
near # 6067 ditto

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. ex. ditto
|| slender, whitish, pointed, sorediose. rain.
On dead wood on High Point
cliffs near # 6069

6071 *Cladonia macilenta* f. *stipitata* (Ach.) H. in. 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. ditto
Not abundant here: *Parmalina farinacea* (L.) Ach.

6073 On stems of *Kalmia latifolia*
|| at High Point cliffs. ditto
a bluish gray *Parmelia*?
(*Nephromopsis ilicis* (Ach.) H. in. (Sent to E. in by mistake
as was 6072.

6074 Lichen
|| on soil on shelf at foot of
High Point Cliffs. ditto
crustose.

6075 Moss
|| on rotten wood at
High Point Cliffs. ditto

Moss.
on rocks - adhering
too tightly to remove -
6076 on High Point cliffs H.A. Allard
||

6077 *Cladonia* on rock
|| adhering too tightly to remove - ditto
on vertical rock faces
at High Point cliffs.
= *Cladonia grayi* f. *aberrans* Asakina
(contains lactic acid but is P.).

6078
|| Top 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 ditto
small circular patches about the
size of a dollar or smaller

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 quarry
and spring at Hafersell Gap.
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 rocks
at High Point Cliffs ditto

6087 Moss
On thin brown soil on
rocks at High Point Cliffs. ditto

6088 Moss
On thin brown soil on
rocks at High Point Cliffs ditto

6089 Cladonia cristatella f. verticillata Tuck. mostly
on soil in thin second-growth woods.
Bull Run Mt., Va
In woods west slope
below High Point just
west of barn and old
mine near Hafersell to
Broad Run roadway, Fauquier Co
H.A. Allard
January 29, 1939

Cladonia streptilis (Ach.)
on the bark at base of
6090 tree
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 ditto
apothecia brown
on soil near # 6089
Roffins.

6093 Cladonia subcariosa f. squamulosa ditto
on soil near # 6089
Roffins.

6094 Cladonia subcariosa f. evoluta var. 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 Umbilicaria pustulata

Lichen
Imbricaria pustulata

Bull Run Mt., Va.
Fauquier Co.
west slope below High Point
January 29, 1939
H.A. Allard.

- 6097 On rocks near
High Point - north
(31) end: very abundant,
competing with *Cyrtophora pedicula* here.

6098

Moss.
On rocks crevices and seams
on limestone boulder in woods near
slope below High Point. dark
black green. a dense species

ditto

6099

Cladonia

(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

Moss.
on flat rocks near # 6098

ditto

6101

Moss

(1) on rocks in woods near
6098

ditto

6102

Moss

(1) on bark, base of tree
near # 6098

ditto

6103

Moss

(1) 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. Leave
at 2 P.M.: rainfall 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
6472 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 - ie all green
plants, ferns, lycophytes etc, except
lichens, mosses 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.