

THE VASCULAR PLANTS OF NEW KENT COUNTY

A Thesis

Presented to

The Faculty of the Department of Biology
The College of William and Mary in Virginia

In Partial Fulfillment

Of the Requirements for the Degree of
Master of Arts

By

Mary Sabra Gillespie

Summer, 1970

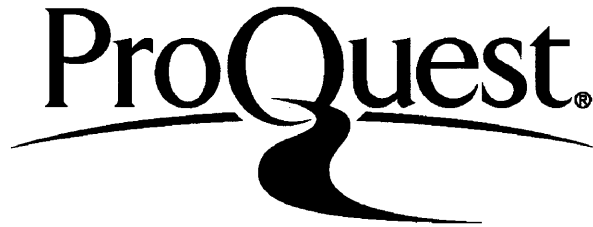
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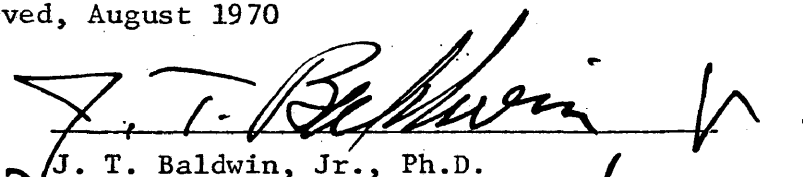
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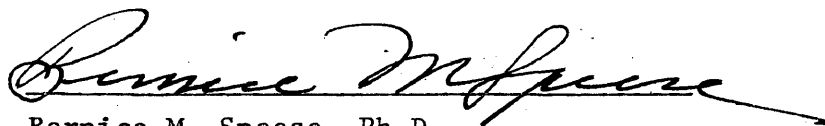


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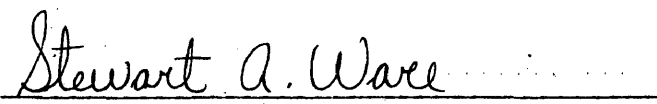
Approved, August 1970



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ACKNOWLEDGMENTS

I wish to thank Dr. J. T. Baldwin, Jr., Dr. Bernice M. Speese, and Dr. Stewart A. Ware for serving on my committee and for assisting me with my thesis.

Special thanks go to Dr. Donna Marie Eggers Ware for her assistance with the field work and identifications.

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Figure

1. Map of New Kent and Charles City Counties¹

¹See pocket inside of back cover.

ABSTRACT

New Kent County is in the middle Coastal Plain, on the Peninsula of Virginia. It is bounded on the north by the Pamunkey River, on the south by the Chickahominy River, on the west by Henrico County, and on the east by James City County. Collections of vascular plants were made in New Kent County at weekly intervals during the growing season May, 1969 to May, 1970. Specimens are deposited in the herbarium of the College of William and Mary.

A total of 474 taxa representing 308 genera of 106 families is recorded. Four hundred twenty-eight new records are reported for the county, 59 for the Peninsula of Virginia, and 37 for the middle Coastal Plain. Habitat and locality data are given for the first collection number of each species. The areas most frequently visited by the author in New Kent County are described.

THE VASCULAR PLANTS OF NEW KENT COUNTY

INTRODUCTION

New Kent County, Virginia, lies between Williamsburg and Richmond. It is bounded on the south by the Chickahominy River, on the north by the Pamunkey River, on the west by Henrico County, and on the east by James City County. After the early floristic work by Mitchell and Clayton, little was done until Professor and Mrs. Earl Jerome Grimes made limited collections in 1921 and 1922 (Erlanson, 1924). Several years later, Miss Jennie Jones made collections of orchids and deposited them in the State herbarium in Richmond. In 1964, Dr. A. M. Harvill made some collections in New Kent County. No intensive study of the flora of the county has been made.

The purpose of this study was to conduct a floristic survey of New Kent County from May, 1969 through May, 1970, and to compile a list of the vascular flora. Voucher specimens are in the herbarium of the College of William and Mary. Duplicates will be deposited in the herbarium of the University of North Carolina.

CHAPTER I

Field work began on May 9, 1969, and ended on May 29, 1970.

Fifty trips were made.

Families are arranged according to Fernald (1950); genera and species are listed alphabetically. An asterisk (*) preceding a binomial name indicates that the species was reported from New Kent County by Massey (1961); all other species are considered county records. A plus (+) indicates a record for the Peninsula of Virginia and a cross-hatch (#), a record for the middle Coastal Plain. Peninsula of Virginia records and middle Coastal Plain records are based on records reported by Massey (1961), Harvill (1965, 1967), and Barans (1969, unpublished M. A. thesis). Following each binomial are the collection numbers in ascending order, except for the earliest number, which is last. This earliest collection number is described fully, and all numbers are coded for a general locality. The code number is included within parentheses following each collection number.

The areas which are coded are listed below and shown on the map folded on the back cover.

1. Lanexa
2. Diascund Dam
3. Ware Creek
4. Eltham Marsh

5. Chestnut Grove Farm
6. Cook Landing
7. St. Peter's Swamp
8. St. Peter's Church
9. Tunstall
10. Quinton
11. Toe Ink Wayside
12. Roxbury
13. Providence Forge
14. Windsor Shades
15. Jefferson's Boat Rental
16. Route 627 Ravine
17. Turner Neck
18. Boot-shaped peninsula between the Chickahominy River
and Diascund Creek
19. Criscross
20. New Kent

Each area is described briefly, in order to define its boundaries and habitats.

1. The Lanexa area includes lowlands west of Diascund Creek and roadsides on Co. Rte. 622, U.S. Rte. 60 and Co. Rte. 627.
2. The Diascund Dam area includes the roadsides on Co. Rtes. 627, 603 and 621--all of which cross the dam. Also included in the area are open woods which border

on the dam.

3. Ware Creek includes lowlands on either side of the creek and roadsides on Co. Rte. 600.
4. Eltham Marsh is a typical, brackish marsh on the Pamunkey River.
5. Chestnut Grove Farm, west of Co. Rte. 624 on the Pamunkey River, has a variety of habitats: wooded ravines, pine stands, fields, and roadsides.
6. South of Cook Landing on the Pamunkey River there is a series of ravines that are approached by jeep trails northeast of Co. Rte. 637. Roadsides on Co. Rte. 637 are also included in the area.
7. On the west side of Co. Rte. 608 at St. Peter's Swamp, there are rich deciduous woods. On the east side of the road, there are lowlands bordering the swamp. Also included in the area are roadsides on Co. Rtes. 608 and 614. These roads intersect north of St. Peter's Swamp.
8. St. Peter's Church includes the rich deciduous forest behind the church and the roadsides on nearby Co. Rtes. 609 and 642.
9. Tunstall, includes the fields surrounding Hampstead Plantation and the rich deciduous forest on the south side of Co. Rte. 608, one-half mile west of the junction of Co. Rtes. 608 and 609.

10. Quinton is a rich deciduous woods east of Co. Rte. 611, southwest of Quinton.
11. Toe Ink Wayside includes the woods on both sides of U.S. Rte. 60 and the roadsides on U.S. Rte 60, Co. Rte. 640, and Co. Rte. 612, all of which are nearly adjacent to the Wayside.
12. Although Roxbury is in Charles City County, this name is used here to denote the area of New Kent County just across the Chickahominy River from that village. The area includes the lowlands on both sides of Co. Rte. 609 as well as the roadsides near the bridge over the river on Rte. 609.
13. Providence Forge includes the waste areas in the town itself, the roadsides on Co. Rte. 608 and the roadsides on Va. Rte. 155, near the bridge over the Chickahominy River.
14. Windsor Shades includes the marshy areas on the Chickahominy River at Eddie Allen's #1 boat rental establishment and Dillon's Landing. It also includes the roadsides on Co. Rte. 650 leading to Eddie Allen's.
15. Jefferson's Boat Landing includes the marshy areas on the Chickahominy River and roadsides on the dirt extension of Co. Rte. 647.
16. Route 627 Ravine is distinguished by deciduous woods on the slopes, bottomlands and roadsides on Co. Rte. 627.

17. Turner Neck includes roadsides on Co. Rte. 627, railroad right-of-way and lowlands and fields on the neck.
18. The Boot-Shaped Peninsula bounded by the Chickahominy River and Diascund Creek includes marsh areas and fields at its foot and rich deciduous woods at its upper end.
19. Criscross refers to roadsides on Co. Rte. 617 near the plantation house bearing that name.
20. New Kent includes grassy areas in front of New Kent Ordinary and roadsides on Va. Rte. 33.

CHAPTER II

A total of 711 numbers were collected, representing 474 taxa, 308 genera and 106 families.

Four hundred and twenty-eight new records are reported for the county, 59 for the Peninsula of Virginia, and 37 for the middle Coastal Plain, defined by Massey (1961), to include Nansemond, Southampton, Isle of Wight, Surrey, Warwick, Prince George, Charles City, James City, New Kent, King and Queen, King William, Essex, Richmond, Westmoreland, and King George counties.

Of the 711 numbers, there are a few that are unusual and consequently merit special comment. Four are species of trees which occurred outside the range given for them by Fowells (1965). They are Gleditsia triacanthos, Robinia pseudo-acacia, Quercus lyrata and Quercus prinus. The first two plants are widely planted by home owners, but Quercus lyrata and Quercus prinus occur naturally in New Kent County. Quercus lyrata is found in low grounds, and Quercus prinus is found on ridges and upper slopes of ravines. Quercus lyrata was found at the edge of the Chickahominy River, on the west side of Co. Rte. 609 near the bridge over the Chickahominy River. Though not reported for the New Kent County or the Peninsula by Massey (1961), it was reported for York County by Harvill (1965). Quercus prinus was found in a ravine on the southeast side of Co. Rte. 627, seven-tenths of a mile south of the junction of Co. Rte. 627 and Co. Rte.

1002. Fowells does not show this species occurring in the Coastal Plain and consequently this represents an unusual range extension for the species.

Twenty-six species of plants found in this study are herbs and trees not previously published as records. They are not treated as Peninsula or Middle Coastal Plain records herein because they have been reported from James City County by Barans (1969), in an unpublished M. A. thesis. They are: Equisetum hyemale, Athyrium filix-femina, Eragrostis spectabilis, Panicum commutatum, Poa pratensis, Trisetum pennsylvanicum, Cyperus odoratus, Lemna minor, Spirodela polyrhiza, Commelina communis, Salix sericea, Carya cordiformis, Carya glabra, Ceratophyllum demersum, Clematis dioscoreifolia, Rubus occidentalis, Vicia villosa, Oxalis stricta, Viola pallens, Apocynum cannabinum, Vinca minor, Cuscuta compacta, Phacelia dubia, Verbascum blatteria, Erigeron strigosus, and Eupatorium leucolepis. The vast majority of these plants are not rare but are often overlooked by the hurried investigator.

Two herbs that are considered rare in the New Kent County area are Lysimachia terrestris and Tussilago farfara. According to Harvill (1967), Lysimachia terrestris occurs only in Dinwiddie, Isle of Wight, Southampton, and Sussex Counties on the Coastal Plain and Alleghany, Augusta, Bland and Giles Counties in the mountain regions. Tussilago farfara has been previously recorded only in the mountainous counties of Frederick and Highland. Accordingly, my collection represents a range extension for both species.

CHAPTER III

ANNOTATED CHECKLIST OF THE VASCULAR
PLANTS OF NEW KENT COUNTY

LIST OF FAMILIES, GENERA, AND SPECIES

1. Equisetaceae Michx.

1. Equisetum L.

1. E. arvense L. 511(17), 131(11). In moist soil of stream bank, in woods, north side of U.S. Rte. 60 West, near Toe Ink Wayside. June 6, 1969.
2. E. hyemale L. 96(5). In moist sandy soil at edge of Pamunkey River, Chestnut Grove Farm. May 24, 1969.

2. Lycopodiaceae Michx.

1. Lycopodium L.

1. L. complanatum L. var. flabelliforme Fern. 80(8), 6(2). In moist soil in open woods at edge of Diaseund Dam. May 9, 1969.
2. L. lucidulum Michx. 226. In moist soil in woods adjacent to cut-over area on Rte. 609, 1.0 mile north of junction of Co. Rte. 609 and Co. Rte. 606. July 30, 1969.
3. L. obscurum L. 100(13). In moist soil in woods behind Miss Etta Leonard's house, north side of U.S. Rte. 60 at Providence Forge, Va. May 24, 1969.

3. Selaginellaceae Underw.

1. Selaginella Beauv.

1. S. apoda (L.) Fern. 14(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1969.

5. OPHIOGLOSSACEAE Presl.

1. Botrychium Swartz

1. B. dissectum Spreng. 265(8). In moist soil of rich woods behind St. Peter's Church, north of Talleyville, Va. September 13, 1969.
2. B. virginianum (L.) Sw. 112(8), 76(8). In moist soil of rich woods behind St. Peter's Church, north of Talleyville, Va. May 22, 1969.

2. Ophioglossum L.

1. O. vulgatum L. 111(8). In rich deciduous woods behind St. Peter's Church, north of Talleyville, Va. May 28, 1969.

6. OSMUNDACEAE R. Br.

1. Osmunda L.

1. O. cinnamomea L. 49(17). In moist soil in woods at edge of Chickahominy River, southwest of Lanexa, Va. May 15, 1969.
2. O. regalis L. 50(17). In moist soil at edge of field southwest of Lanexa, Va. May 15, 1969.

9. POLYPODIACEAE R. Br.

1. Asplenium L.

1. A. platyneuron (L.) Oakes. 386(6), 48(17). In moist soil in woods at edge of Chickahominy River, southwest of Lanexa, Va. May 15, 1969.

2. Athyrium Roth

1. A. felix-femina (L.) Roth. 229(8), 132(11). In moist soil of woods north side of U.S. Rte. 60 near Toe Ink Wayside. June 6, 1969.

3. Dryopteris Adans.

1. D. hexagonoptera (Michx.) C. Chr. 133(11). In moist soil in woods, north side of U.S. Rte. 60 West near Toe Ink Wayside. June 6, 1969.
2. D. noveboracensis (L.) Gray. 130(11). In moist soil in woods, north side of U.S. Rte. 60 west, near Toe Ink Wayside. June 6, 1969.

4. Onoclea L.

1. O. sensibilis L. 228(8), 42(15). In moist soil at edge of road, on dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60 East. May 11, 1969.

5. Pellaea Link.

1. P. atropurpurea (L.) Link. 614(9). On brick wall of family cemetery, Hampstead. May 20, 1969.

6. Polystichum Roth

1. P. acrostichoides (Michx.) Schott. 398(10). In moist soil of rich woods, southeast side of Southern Railway near Quinton, Va. November 5, 1969.

7. Pteridium Gleditsch

1. P. aquilinum (L.) Kuhn. 194(2). In dry infertile soil of roadside on Co. Rte. 621 at the county line. July 22, 1969.

8. Woodwardia Sm.

1. W. areolata (L.) Moore. 221(19). In wet woods on north side of Co. Rte. 617 near Rumley Marsh. June 26, 1969.

13. PINACEAE Lindl.

1. Juniperus L.

1. J. virginiana L. 414(8). Probably a planting in cemetery of St. Peter's Church, north of Talleyville, Va. March 25, 1970.

2. Pinus L.

1. P. taeda L. 412(7). Pine stand on western-facing slope, St. Peter's Swamp. March 25, 1970.
2. P. virginiana Mill. 333(16). In dry, infertile soil on roadside, north side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.

3. Taxodium Richard

3. T. distichum (L.) Richard. 32(14), 61(17), 5(2). In moist soil at edge of Diascund Dam. May 9, 1969.

14. TYPHACEAE L.

1. Typha L.

1. T. latifolia L. 135(11). In shallow water at edge of man-made lake, north side of Co. Rte. 612 at junction of Co. Rte. 612 and Co. Rte. 640. June 6, 1969.

19. ALISMATACEAE.

1. Alisma L.

- *1. A. subcordatum Raf. 253(8). In shallow water in temporary ditch, north side of Co. Rte. 642, 1.0 mile east of St. Peter's Church. August 10, 1969.

2. Sagittaria L.

- +1. S. graminea Michx. 665(14). In shallow water at edge of marsh, Eddie Allen #1, on Chickahominy River. May 26, 1970.

21. HYDROCHARITACEAE

1. Eloëa Michx.

1. E. canadensis Michx. 25(14). In shallow water of Chickahominy River at Dillon's Landing near Windsor Shades, Va. May 11, 1969.

22. GRAMINEAE Juss.

1. Andropogon L.

1. A. gerardi Vitman. 367(17), 160(15). In dry soil on roadside right-of-way on dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. June 22, 1969.
- +2. A. scoparius Michx. 376(17). In dry soil on highway right-of-way on Co. Rte. 627 just south of Chesapeake and Ohio (C&O) Railway Crossing. October 28, 1969.
3. A. ternarius Michx. 381(17). In dry soil along woodland border on west side of Co. Rte. 627, just south of C&O Railway Crossing. October 28, 1969.

2. Anthoxanthum L.

1. A. odoratum L. 462(13), 523(16), 536(16), 545(1), 458(13).
In grassy area on roadside, on Va. Rte. 155 near bridge
over Chickahominy River. April 17, 1970.

3. Cynodon Richard

1. C. dactylon (L.) Pers. 368(17). In dry soil on highway right-
of-way, on Co. Rte. 627 at C&O Railway crossing. October 28,
1969.

4. Dactylis L.

1. D. glomerata L. 579(12), 619(16), 558(1). On highway right-
of-way, on Co. Rte. 622, near Liberty Church, Lanexa, Va.
May 9, 1970.

5. Danthonia DC

1. D. spicata (L.) Beauv. 710(3). In moist soil on woodland
trail, south side of Ware Creek. May 29, 1970.

6. Eragrostis Beauv.

1. E. spectabilis (Pursh) Steud. 370(17). In dry soil of high-
way right-of-way on Co. Rte. 627 near C&O Railway Crossing.
October 28, 1969.

7. Erianthus Michx.

1. E. contortus Ell. 273(7). In moist open waste places, St.
Peter's Swamp. September 21, 1969.
2. E. giganteus (Walt.) Muhl. 374(17). In moist soil in field
on west side of Co. Rte. 627 just south of C&O Railway.
October 28, 1969.

8. Festuca L.

1. F. elatior L. 653(7). On highway right-of-way, on west side
of Co. Rte. 608 at St. Peter's Swamp. May 22, 1970.

9. Glyceria R. Br.

1. G. striata (Lam.) Hitchc. 654(9), 693(7), 549(1). In moist
soil in meadow in front of Liberty Church, Lanexa, Va.
May 9, 1970.

10. Hordeum L.

1. H. pusillum Nutt. 623(17), 550(1). In dry soil on highway right-of-way on Co. Rte. 622 near Liberty Church, Lanexa, Va. May 9, 1970.

11. Panicum L.

1. P. clandestinum L. 602(18), 369(17). In moist soil on roadside on Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 19, 1970.
2. P. commutatum Schult. 651(9), 604(18). In moist soil on dirt road right-of-way through woods, on southeast side of Co. Rte. 627, 0.5 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 19, 1970.
3. P. lanuginosum Ell. 603(18). In moist soil on dirt road right-of-way through woods, on southeast side of Co. Rte. 627, 0.5 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 19, 1970.

12. Paspalum L.

1. P. floridanum Michx. 380(17). In moist soil on roadside, on Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. October 28, 1969.

13. Poa L.

1. P. annua L. 461(13), 403(16). In dry soil of driveway on south side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. March 23, 1970.
2. P. autumnalis Muhl. 586(12). In moist soil in woodlands at edge of Chickahominy River, on east side of Co. Rte. 609 near bridge over Chickahominy River. May 10, 1970.
3. P. compressa L. 711(3). In dry soil on highway right-of-way on Co. Rte. 600 near Ware Creek and the county line. May 29, 1970.
4. P. pratensis L. 688(4), 556b(1). In dry soil on highway right-of-way, on Co. Rte. 622 in front of Liberty Church, Lanexa, Va. May 9, 1970.

14. Setaria Beauv.

1. S. geniculata (Lam.) Beauv. 378(17). In dry soil in field, on west side of Co. Rte. 627, just south of C&O Railway Crossing. October 28, 1969.

15. Stipa L.

1. S. avenacea L. 618(17). In dry woods, south of Co. Rte. 627, 1.3 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 20, 1970.

16. Triodia R. Br.

1. T. flava (L.) Smyth. 377(17). In dry soil in field, west side of Co. Rte. 627, just south of C&O Railway Crossing. October 28, 1969.

17. Trisetum L.

1. T. pennsylvanicum (L.) Beauv. 559(1), 18(1). In moist soil of meadow in front of Liberty Church, Lanexa, Virginia. May 9, 1969.

18. Uniola L.

- *1. U. laxa (L.) BSP. 392(6). In moist soil of rich woods, edge of Jeep Trail #1 leading to ravines south of Cook Landing on the Pamunkey River. October 31, 1969.

19. Zizaniopsis Döll & Aschers.

- +#1. Z. miliacea (Michx.) Döll & Aschers. 163(15), 161(15). In wet soil at edge of marsh on Chickahominy River, on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. June 22, 1969.

23. CYPERACEAE J. St. Hil.

1. Carex L.

- +#1. C. albolutescens Schw. 20(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1969.
- +2. C. blanda Dewey. 555(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1970.

3. C. bromoides Schkuhr. 581(12). In moist soil at edge of Chickahominy River, on east side of Co. Rte. 609 near the bridge over Chickahominy River. May 10, 1970.
- +#4. C. complanata Torr. and Hook. 642(6). In dry soil of woodland trail, Jeep Trail #1 leading to ravines south of Cook Landing on the Pamunkey River. May 22, 1970.
5. C. crinita Lam. 638(6), 552(1). In moist soil in meadow in front of Liberty Church, Lanexa, Va. May 9, 1970.
- +#6. C. grayii Carey. 580(12), 62(17). In moist soil at edge of woods on the Chickahominy River, east side of Co. Rte. 627, 2.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.
- +#7. C. grisea Wahl. 707(3). In dry soil of highway right-of-way on Co. Rte. 600 just north of Ware Creek and the county line. May 29, 1970.
- +#8. C. howei Mackenz. 708(3). In moist soil on south side of Ware Creek, east side of Co. Rte. 600. May 29, 1970.
9. C. incomperta Bickn. 640(6). In wet soil at edge of lake, south of Cook Landing on the Pamunkey River. May 22, 1970.
10. C. laevivaginata (Kukenth.) Mackenz. 553(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1970.
11. C. lurida Wahlenb. 627(9), 666(14), 19(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1969.
12. C. rosea Schkuhr. 575(12), 554(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1970.
- +13. C. seorsa Howe. 521(1), 564(15), 10(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1969.
- +#14. C. stipata Muhl. 585(12). In moist soil at edge of Chickahominy River, east side of Co. Rte. 609 at bridge over Chickahominy River. May 10, 1970.
- +#15. C. stricta Lam. 45(14), 17(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1969.
- +#16. C. swanii (Fern.) Mackenz. 709(3). In dry, infertile soil of highway right-of-way on west side of Co. Rte. 600 just north of Ware Creek and the county line. May 29, 1970.

- +17. C. venusta Dew. 583(12). In moist soil at edge of Chickahominy River, on east side of Co. Rte. 609 at bridge over Chickahominy River. May 10, 1970.

2. Cyperus L.

- *1. C. filiculmis Vahl. 175(2). In dry, infertile soil, south side of Co. Rte. 603 near Diascund Bridge. July 6, 1969.
- +2. C. globulosus Aubl. 176(2). In dry, infertile soil, south side of Co. Rte. 603 near Diascund Bridge. July 6, 1969.
- +#3. C. lancastriensis Porter. 317(12). In moist soil in woods at edge of Chickahominy River at crossing of bridge on Co. Rte. 609. October 8, 1969.
4. C. odoratus L. 373(17). In moist soil of highway right-of-way on Co. Rte. 627 at C&O Railway Crossing. October 28, 1969.

3. Eleocharis R. Br.

1. E. obtusa (Willd.) Schultes. 136(11). In wet soil of man-made lake, north side of Co. Rte. 612 at junction of Co. Rte. 612 and Co. Rte. 640. June 6, 1969.
- +#2. E. rostellata Torr. 689(4). In wet soil, Eltham Marsh. May 28, 1970.

4. Rhynchospora Vahl.

1. R. capitellata (Michx.) Vahl. 382(17). In moist soil of highway right-of-way, on Co. Rte. 627 at C&O Railway Crossing. October 28, 1969.

5. Scirpus L.

1. S. americanus Pers. 692(4), 599(4). In wet soil, Eltham Marsh. May 12, 1970.
2. S. olneyi Gray. 86(5). In wet soil at edge of Pamunkey River, Chestnut Grove Farm. May 24, 1969.
3. S. validus Vahl. 690(4). In wet soil, Eltham Marsh. May 12, 1970.

24. ARACEAE Necker

1. Acorus L.

1. A. calamus L. 538(1). In moist soil in meadow in front of Liberty Church, Lanexa, Virginia. May 9, 1970.

2. Arisaema Mart.

1. A. triphyllum (L.) Schott. 104(8), 231(8), 467(8), 75(8). In moist soil in rich deciduous woods behind St. Peter's Church, north of Talleyville, Va. May 28, 1969.

3. Orontium L.

- *1. O aquaticum L. 447(3). In moist soil of stream flood plain, north side of Ware Creek. April 16, 1970.

4. Peltandra Raf.

1. P. virginica (L.) Schott & Endl. 169(14). In marsh on Chickahominy River at Eddie Allen's #1. June 22, 1969.

25. LEMNACEAE Dumort

1. Lemna L.

- +#1. L. minor L. 678(14). On surface of still water at edge of Chickahominy River, Eddie Allen's #1. May 26, 1970.

2. Spirodela Schleid.

1. S. oligorhiza (Kurtz) Hegelm. 677(14). On surface of still water at edge of Chickahominy River at Eddie Allen's #1. May 26, 1970.
2. S. polyrhiza (L.) Schleid. 676(14), 592(14). On surface of still water at edge of Diascund Dam, east side of Co. Rte. 621. May 12, 1970.

3. Wolffia Horkel

1. W. punctata Griseb. 680(14). On surface of still water at edge of Chickahominy River at Eddie Allen's #1. May 26, 1970.

4. Wolffiella Hegelm

1. W. floridana (J. D. Sm.) Thompson. 679(14). On surface of still water at edge of Chickahominy River, Eddie Allen's #1. May 26, 1970.

29. COMMELINACEAE Reichenb.

1. Commelina L.

1. C. communis L. 662(14), 213(19). A weed on roadside on south side of Co. Rte. 617, 0.3 mile south of junction of Co. Rte. 617 and Co. Rte. 604. July 26, 1969.

2. Aneilema R. Br.

1. A. keisak Hassk. 324(18). In marsh on Diascund Creek at foot of peninsula bounded by Diascund Creek and the Chickahominy River. October 15, 1969.

30. PONTEDERIACEAE Dumort.

1. Pontederia L.

1. P. cordata L. 157(17). In shallow water on north side of Co. Rte. 627, 1.0 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. June 17, 1969.

31. JUNCACEAE (Vent.) Dumort.

1. Juncus L.

1. J. effusus L. 33(14), 641(6), 23(1). In moist soil in meadow in front of Liberty Church, Lanexa, Va. May 9, 1969.
- +2. J. elliotii Chapm. 617(16). In moist soil at bottom of ravine, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 20, 1970.
- +3. J. gerardi Loisel 691(4). In wet soil at Eltham Marsh. May 28, 1970.

2. Luzula DC

1. L. acuminatus Raf. 427(6). In moist soil of ravine south of Cook Landing on the Pamunkey River. April 8, 1970.
2. L. bulbosa (Wood) Rydb. 450(3), 571(13), 440(16). In moist soil of ravine, southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. April 13, 1970.

32. LILLIACEAE Zinn

1. Allium L.

1. A. vineale L. 165(15), 129(7). A weed on roadside on north side of Co. Rte. 614, 1.0 mile east of junction of Co. Rte. 614 and Co. Rte. 608. June 4, 1969.

2. Asparagus L.

1. A. officinalis L. 245(4). In moist soil at edge of Eltham Marsh. August 6, 1969.

3. Medeola L.

1. M. virginiana L. 120(3). In moist peaty soil in woods, north side of Ware Creek. June 3, 1969.

4. Muscari Mill.

1. M. racemosum (L.) Mill. 446(3). In dry, infertile soil on east side of Co. Rte. 600, 0.3 mile north of junction of Co. Rte. 600 and Co. Rte. 635. April 16, 1970.

5. Ornithogalum L.

1. O. umbellatum L. 600(4). In moist soil of lawn of Eltham Farm on the Pamunkey River. May 12, 1970.

6. Polygonatum Mill.

1. P. biflorum (Walter) Ell. 531(16). In moist soil of ravine, southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 6, 1970.

7. Smilacina Desf.

- *1. S. racemosa (L.) Desf. 154(16), 277(7), 84(5). In moist soil of woods, YWCA camp. May 24, 1969.

8. Smilax L.

1. S. bona-nox L. 357(16). Edge of woods, south side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.
2. S. rotundifolia L. 397(10), 584(12), 4(2). In moist soil of thicket at edge of Diascund Dam. May 9, 1969.

9. Uvularia L.

1. U. perfoliata L. 526(8), 141a(7). In moist soil on western-facing slope at St. Peter's Swamp. June 8, 1969.

34. DIOSCOREACEAE Lindl.

1. Dioscorea L.

1. D. villosa L. 115(1). In open woods at edge of Diascund Creek, west side of creek, south of U.S. Rte. 60. June 3, 1969.

35. AMARYLLIDACEAE

1. Hypoxis L.

1. H. hirsuta (L.) Coville. 643(6), 283(7). In pine woods at St. Peter's Swamp. September 21, 1969.

36. IRIDACEAE

1. Belamcandra Adans.

1. B. chinensis (L.) DC. 215(19). In open woods on north side of Co. Rte. 617, 0.3 mile south of junction of Co. Rte. 617 and Co. Rte. 604. July 26, 1969.

2. Iris L.

- #1. I. pseudacorus L. 87(4), 36(14). In shallow water in Chickahominy River at Dillon's Landing near Windsor Shades, Va. May 11, 1969.
2. I. verna L. 496(6). In dry, infertile soil of roadside bank, on east side of Co. Rte. 637, 0.5 mile north of junction of Co. Rte. 637 and Va. Rte. 33. April 25, 1970.
3. I. virginica L. 38(15). In wet soil at edge of Chickahominy River, 0.8 mile south on dirt road extension of Co. Rte. 647 from its junction with U.S. Rte. 60. May 11, 1969.

3. Sisyrinchium L.

- *1. S. angustifolium Mill. 40(15), 16(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1969.

39. ORCHIDACEAE Lindl.

1. Cypripedium L.

1. C. acaule Aiton. 535(16). In pine stand on ridge of ravine, southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 6, 1970.
2. C. calceolus L. var. pubescens (Willd.) Correll. 525(8), 466(8). In mesic woods behind St. Peter's Church north of Talleyville, Va. April 20, 1970.

2. Goodyera R. Br.

1. G. pubescens (Willd.) R. Br. 230(8), 272(7), 188(8). In moist soil of rich woods behind St. Peter's Church, north of Talleyville, Va. July 22, 1969.

3. Liparis Richard

- *1. L. lilifolia (L.) Richard. 608(18). In sandy soil on steep western-facing slope above Chickahominy River, middle of the peninsula bounded by the Chickahominy River and Diascund Creek. May 19, 1970.

4. Malaxis Sw.

- *1. M. unifolia Michx. 140(5), 106(8). In pine stand behind St. Peter's Church, north of Talleyville, Va. May 28, 1969.

5. Orchis L.

- *1. O. spectabilis L. 524(8), 121(7). In moist soil of rich woods on western-facing slope at St. Peter's Swamp. June 4, 1969.

6. Spiranthes Richard

- *1. S. praecox (Walt.) S. Wats. 239(8). In moist soil in meadow in front of St. Peter's Church, north of Talleyville, Va. August 2, 1969.

7. Tipularia Nutt.

- *1. T. discolor (Pursh) Nutt. 238(8), 399(10), 227(8). In moist soil in rich woods adjacent to Charlotte Evelyn's house on west side of Co. Rte. 609, 0.8 mile north of junction of Co. Rte. 609 and Co. Rte. 606. July 30, 1969.

40. PIPERACEAE L. C. Rich. in H.B. et K.

1. Saururus L.

- *1. S. cernuus L. 158(17), 152(5). In wet soil of seepage area east of Chestnut Grove Farm. June 8, 1969.

41. SALICACEAE Lindl.

1. Populus L.

1. P. deltoides Marsh. 698(12). In moist soil at edge of Chickahominy River, on east side of Co. Rte. 609 at bridge over Chickahominy River. May 29, 1970.

2. Salix L.

1. S. nigra Marsh. 34(14), 31(14). In wet lowgrounds along Chickahominy River at Dillon's Landing, near Windsor Shades, Va. May 11, 1969.
2. S. sericea Marsh 453(11). In moist soil on roadside bank, on south side of U.S. Rte. 60 near Toe Ink Wayside. April 17, 1970.

42. MYRICACEAE Dumort.

1. Myrica L.

- *1. M. cerifera L. 365(17), 287(16). In moist soil in ravine southeast side of Co. Rte. 627, 0.7 mile south of Co. Rte. 627 and Co. Rte. 1002. September 28, 1969.

44. JUGLANDACEAE Lindl.

1. Carya Nutt.

1. C. cordiformis (Wang.) K. Koch. 339(16). In mesic woods of ravine on southeast side of Co. Rte. 627, 0.7 mile south of the junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.
2. C. glabra (Mill.) Sweet. 308(8). In mesic woods behind St. Peter's Church, north of Talleyville, VA. September 28, 1969.
3. C. pallida(Ashe) Engl. & Graebn. 322(16). In mesic woods of ravine, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.

4. C. tomentosa Nutt. 291(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.

2. Juglans L.

1. J. nigra L. 700(15). In moist soil on roadside, on east side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 29, 1970.

45. CORYLACEAE Mirbel

1. Alnus B. Ehrh.

1. A. serrulata (Ait.) Willd. 290(8), 35(14). In wet soil on banks of Chickahominy River, Dillon's Landing, near Windsor Shades, Va. May 11, 1969.

2. Betula L.

- +#1. B. nigra L. 568(11). In moist lowgrounds, south side of U.S. Rte. 60 near Toe Ink Wayside. May 9, 1970.

3. Carpinus L.

1. C. caroliniana Walt. 464(13), 400(13). In moist soil at edge of Chickahominy River on east side of Va. Rte. 155 near bridge over Chickahominy River. March 23, 1970.

4. Corylus L.

1. C. americana Walt. 401(16), 337(16). In moist soil at bottom of ravine, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.

46. FAGACEAE Drude

1. Castanea Mill.

1. C. pumila (L.) Mill. 342(16), 58(17). On border of woods on south side of C&O Railway, 1.2 miles south on Co. Rte. 627 from its junction with Co. Rte. 1002. May 15, 1969.

2. Fagus L.

1. F. grandifolia Ehrh. 305(8). In mesic woods behind St. Peter's Church, north of Talleyville, VA. September 28, 1969.

3. Quercus L.

1. Q. alba L. 335(16), 299(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.
2. Q. falcata Michx. 325(18). In dry, infertile soil on roadside, at foot of peninsula bounded by the Diascund Creek and the Chickahominy River. October 15, 1969.
3. Q. lyrata Walt. 315(12). In lowgrounds at edge of Chickahominy River, on west side of Co. Rte. 609 near bridge over the Chickahominy River. October 8, 1969.
4. Q. marilandica Muenchh. 298(8). In dry, infertile soil on roadside at edge of pine stand, at entrance to Marl Hill Farm, just east of St. Peter's Church. September 28, 1969.
5. Q. michauxii Nutt. 313(12). In lowgrounds at edge of Chickahominy River, on west side of Co. Rte. 609 at bridge crossing. October 8, 1969.
- *6. Q. nigra L. 320(18). In lowgrounds at edge of marsh on Diascund Creek, at foot of peninsula bounded by the Diascund Creek and the Chickahominy River. October 15, 1969.
7. Q. palustris Muenchh. 331(16). In mesic woods of ravine, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.
8. Q. phellos L. 594(4). In lowgrounds at edge of Eltham Marsh on the Pamunkey River. May 12, 1970.
9. Q. prinus L. 334(16). In mesic woods of ravine on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.
10. Q. rubra L. 321(16), 300(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.
11. Q. stellata Wang. 319(18). In dry, infertile soil on roadside at foot of peninsula bounded by the Diascund Creek and the Chickahominy River. October 15, 1969.
12. Q. velutina Lam. 307(8), 336(16), 294(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.

47. ULMACEAE

1. Celtis L.

1. C. occidentalis L. 699(15), 595(4). In lowgrounds at edge of Eltham Marsh on the Pamunkey River. May 12, 1970.

2. Ulmus L.

- *1. U. americana L. 705(15). In moist soil at edge of Chickahominy River, on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 29, 1970.

48. MORACEAE Lindl.

1. Morus L.

1. M. rubra L. 292(8), 533(16), 289(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.

50. URTICACEAE Reichenb.

1. Boehmeria Jacq.

1. B. cylindrica (L.) Sw. 246(4), 316(12), 189(8). In moist soil in rich woods behind St. Peter's Church, north of Talleyville, Va. July 22, 1969.

51. SANTALACEAE R. Br.

1. Comandra Nutt.

- +1. C. umbellata (L.) Nutt. 622(17), 57(17). In dry, infertile soil at edge of woods, on south side of C&O Railway, 1.2 miles south on Co. Rte. 627 from its junction with Co. Rte. 1002. May 15, 1969.

53. ARISTOLOCHIACEAE Blume

1. Asarum L.

1. A. virginicum L. 402(16). On east-facing slope of ravine, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. March 23, 1970.

54. POLYGONACEAE Desv.

1. Polygonum L.

1. P. hydropiperoides Michx. 660(14). In wet soil at edge of marsh on Chickahominy River at Eddie Allen's #1. May 26, 1970.
2. P. pennsylvanicum L. 284(7). In moist soil in depression on roadside, on west side of Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.

2. Rumex L.

1. R. acetosella L. 53(17). A field weed on east side of Co. Rte. 627, 2 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.
2. R. crispus L. 159(15). In dry, infertile soil on roadside, on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. June 22, 1969.
3. R. verticillatis L. 31(14). In wet soil at edge of Chickahominy River, Dillon's Landing near Windsor Shades, Va. May 11, 1969.

55. CHENOPODIACEAE

1. Chenopodium L.

1. C. ambrosioides L. 681(14). In dry, infertile soil on highway right-of-way, north side of Co. Rte. 650 at the junction of Co. Rte. 650 and U.S. Rte. 60. May 26, 1970.

58. PHYTOLACCACEAE Lindl.

1. Phytolacca L.

1. P. americana L. 162(15). A common weed on roadside, on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. June 22, 1969.

60. PORTULACACEAE Reichenb.

1. Claytonia L.

1. C. virginica L. 430(7). In mesic woods on western facing slope at St. Peter's Swamp. April 8, 1970.

61. CARYOPHYLLACEAE Reichenb.

1. Agrostemma L.

- +1. A. githago L. 56(17). At edge of roadside bordering grain field, on east side of Co. Rte. 627, 2.3 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.

2. Arenaria L.

1. A. serpyllifolia L. 562(15). In dry, infertile soil on east side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 9, 1970.

3. Cerastium L.

1. C. viscosum L. 443(17), 423(17). A field weed on east side of Co. Rte. 627, 2.0 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. April 1, 1970.

4. Dianthus L.

1. D. armeria L. 116(2). In dry, infertile soil on highway right-of-way, on Co. Rte. 621 just over county line. June 3, 1969.

5. Lychnis L.

1. L. alba Mill. 518(8), 110(8). In dry, infertile soil on roadside at junction of Co. Rte. 609 and Va. Rte. 33. May 28, 1969.

6. Saponaria L.

1. S. officinalis L. 166(15). In abandoned field adjacent to Jefferson's boat rental, west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. June 22, 1969.

7. Scleranthus L.

- *1. S. annuus L. 422(17). A field weed on east side of Co. Rte. 627, 2.0 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. April 1, 1970.

8. Silene L.

1. S. antirrhina L. 697(12). In dry, infertile soil of highway right-of-way, on west side of Co. Rte. 609, near bridge over the Chickahominy River. May 29, 1970.

2. S. caroliniana Walt. var. pennsylvanica (Michx.) Fern. 435(16).
In gravelly soil on ridge of ravine, southeast side of Co.
Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and
Co. Rte. 1002. April 13, 1970.

9. Spergula L.

- +#1. S. arvensis L. 685(4). In moist sandy soil at edge of Eltham
Marsh. May 28, 1970.

10. Stellaria L.

1. S. media (L.) Cyrill. 406(17). A roadside weed on north side
of Co. Rte. 627, 1.0 mile south of junction of Co. Rte. 627
and Co. Rte. 1002. March 23, 1970.

62. CERATOPHYLLACEAE A. Gray

1. Ceratophyllum L.

1. C. demersum L. 24(14). In shallow water in Chickahominy River,
Dillon's Landing near Windsor Shades, Va. May 11, 1969.

63. NYMPHAEACEAE DC.

1. Brasenia Schreb.

- +1. B. schreberi Gmel. 28(14). In shallow water in Chickahominy
River, Dillon's Landing near Windsor Shades, Va. May 11, 1969.

2. Nuphar Sm.

1. N. advena (Ait.) Ait. f. 27(14), 22(1). In shallow water in
Diascund Creek, Lanexa, Va. May 9, 1969.

64. RANUNCULACEAE Gerard

1. Anemone L.

1. A. virginiana L. 345(18). In open woods on steep western-
facing slope above Chickahominy River, middle of peninsula
bounded by the Chickahominy River and the Diascund Creek.
October 15, 1969.

2. Aquilegia L.

1. A. canadensis L. 576(12), 90(5). In grassy plot at Chestnut
Grove Farm on the Pamunkey River. May 24, 1969.

3. Clematis L.

1. C. dioscoreifolia Levl and Vaniot. 490(6). In moist soil in thicket at Cook Landing on the Pamunkey River. April 25, 1970.

4. Hepatica Mill.

1. H. americana (DC) Ker. 411(7), 274(7). In moist soil in rich woods on western-facing slope at St. Peter's Swamp. September 21, 1969.

5. Ranunculus L.

1. R. abortivus L. 589(4), 515(20). In grassy area adjacent to New Kent Ordinary, New Kent, Va. May 6, 1970.
2. R. bulbosus L. 551(1), 432(20). In dry soil in field, north side of Va. Rte. 33 in New Kent, Va. April 8, 1970.
3. R. parviflorus L. 669(12), 499(12). In dry soil on highway right-of-way, on Co. Rte. 609 near bridge over the Chickahominy River. April 25, 1970.
- #4. R. pusillus Poir. 548(1). In moist soil in meadow in front of Liberty Church, Lanexa, Va. May 9, 1970.
5. R. recurvatus Poir. 616(16). In moist soil at bottom of ravine, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 20, 1970.
6. R. sceleratus L. 593(4). In wet soil at edge of Eltham Marsh. May 12, 1970.

65. BERBERIDACEAE Desv.

1. Podophyllum L.

1. P. peltatum L. 532(16), 153(16). In bottom of ravine on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. June 17, 1969.

67. MAGNOLIACEAE J. St. Hil.

1. Liriodendron L.

1. L. tulipifera L. 306(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.

2. Magnolia L.

1. M. virginiana L. 114(1). In moist soil in woodland border along Diascund Creek, on west side of creek, just south of U.S. Rte. 60. June 3, 1969.

69. ANNONACEAE

1. Asimina Adans.

1. A. triloba (L.) Dunal. 343(7). In moist soil in wooded area on western-facing slope at St. Peter's Swamp. October 15, 1969.

70. LAURACEAE Lindl.

1. Lindera Thunb.

1. L. benzoin (L.) Blume. 286(8), 303(8), 329(16), 394(10), 413(8), 263(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 13, 1969.

2. Sassafras Nees.

1. S. albidum (Nutt.) Nees. 448(3), 293(8). In dry, infertile soil on roadside, on road to Marl Hill Farm, just east of St. Peter's Church. September 28, 1969.

71. PAPAVERACEAE B. Juss.

1. Chelidonium L.

- +#1. C. majus L. 598(4). In moist soil near spring house at Eltham Farm. May 12, 1970.

2. Papaver L.

- +#1. P. dubium L. 68(13). In dry, infertile soil of railroad bed, at crossing of Va. Rte. 155 and C&O Railway in Providence Forge, Va. May 22, 1969.

3. Sanguinaria L.

1. S. canadensis L. 418(16). In moist soil on southern-facing slope of ravine on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. April 1, 1970.

73. CRUCIFERAE B. Juss.

1. Arabidopsis Heynh.

1. A. thaliana (L.) Heynh. 407(17). A field weed on east side of Co. Rte. 627 just south of the C&O Railway. March 23, 1970.

2. Arabis L.

- +1. A. lyrata L. 520(16), 81(13). In dry, infertile soil on roadside, on Co. Rte. 608, 2.0 miles north of junction of Co. Rte. 608 and U.S. Rte. 60. May 22, 1969.

3. Barbarea R. Br.

1. B. verna (Mill.) Asch. 419(17), 60(17). A field weed on east side of Co. Rte. 627, 2 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.

4. Brassica L.

1. B. rapa L. 431(20). In dry soil in field on north side of Va. Rte. 33 in New Kent, Va. April 8, 1970.

5. Camelina Crantz

1. C. microcarpa Andrz. 572(13). In dry, infertile soil on highway right-of-way, on Va. Rte. 155 near bridge over Chickahominy River. May 10, 1970.

6. Capsella Medic.

1. C. bursa-pastoris (L.) Medic. 543(1). In dry, infertile soil on east side of Co. Rte. 622 in front of Liberty Church, Lanexa, Va. May 9, 1970.

7. Cardamine L.

1. C. hirsuta L. 404(16). In dry, infertile soil of driveway, just south of the ravine on Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. March 23, 1970.
2. C. pennsylvanica Muhl. 473(8), 103(8). In wet soil of stream bottom in mesic woods near St. Peter's Church. May 28, 1969.

8. Lepidium L.

1. L. campestre (L.) R. Br. 542(1). In dry, infertile soil on highway right-of-way, on Co. Rte. 622 in front of Liberty Church, Lanexa, Va. May 9, 1970.
2. L. virginicum L. 557(1). In dry, infertile soil on highway right-of-way, on north side of U.S. Rte. 60 near Liberty Church, Lanexa, Va. May 9, 1970.

9. Teesdalia R. Br.

- +#1. T. nudicaulis (L.) R. Br. 484(7), 486(13), 500(1), 74(13). In dry soil in waste ground behind Sportman's Restaurant, Providence Forge, Va. May 22, 1969.

79. SAXIFRAGACEAE Desv.

1. Heuchera L.

1. H. americana L. 645(6), 635(9). In moist soil on highway right-of-way, on south side of Co. Rte. 608, 0.5 mile west of junction of Co. Rte. 608 and Co. Rte. 609. May 20, 1970.

2. Itea L.

- *1. I. virginica L. 113(1), 314(12), 30a(14). In wet soil on bank of Chickahominy River, Dillon's Landing, near Windsor Shades, Va. May 11, 1969.

3. Saxifraga L.

1. S. virginiana Michx. 636(9), 426(6). In moist soil on northern-facing slope of ravine, south of Cook Landing on the Pamunkey River. April 8, 1970.

80. HAMAMELIDACEAE

1. Liquidambar L.

1. L. styraciflua L. 304(8), 295(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.

81. PLATANACEAE

1. Platanus L.

1. P. occidentalis L. 528(7). In lowground near stream, on east side of Co. Rte. 608 at St. Peter's Swamp. May 6, 1970.

82. ROSACEAE B. Juss.

1. Agrimonia L.

1. A. pubescens Wallr. 236(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. August 2, 1969.

2. Amelanchier Medic.

1. A. canadensis (L.) Medic. 445(17), 444(17). In woodland border on north side of Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. April 13, 1970.

3. Crataegus L.

- +1. C. flava Ait. 674(12). In dry soil of clearing, on east side of Co. Rte. 609 near bridge over Chickahominy River. May 26, 1970.
- +2. C. viridis L. 596(4). In low wet woods at edge of Pamunkey River at Eltham Farm.

5. Fragaria L.

1. F. virginiana Duchesne. 421(17). In dry, infertile soil of railroad right-of-way, east side of Co. Rte. 627, just south of C&O Railway Crossing. April 1, 1970.

6. Geum L.

1. G. canadense Jacq. 629(9), 184(8). In opening of woods behind St. Peter's Church, north of Talleyville, Va. July 22, 1969.

7. Potentilla L.

1. P. canadensis L. 540(1), 439(17). In dry soil on highway right-of-way, on Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. April 13, 1970.
2. P. recta L. 668(12). In dry, infertile soil on highway right-of-way, on west side of Co. Rte. 609 near bridge over the Chickahominy River. May 26, 1970.

8. Prunus L.

1. P. serotina Ehrh. 389(6), 391(6), 561(15), 302(8). In opening of woods behind St. Peter's church, north of Talleyville, Va. September 28, 1969.

9. Pyrus L.

1. P. arbutifolia (L.) L. f. 503(1). In dry, infertile soil of roadside bank, on east side of Co. Rte. 627, 0.2 mile south of Co. Rte. 627 and U.S. Rte. 60. April 29, 1970.
2. P. malus L. 436(16). Probably a planting in yard of abandoned house just south of ravine on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. April 13, 1970.

10. Rosa L.

- +1. R. carolina L. 704(3). In dry, infertile soil on east side of Co. Rte. 600 just north of Ware Creek and the County Line. May 29, 1970.
2. R. eglanteria L. 118(3). In dry, infertile soil of roadside bank, on west side of Co. Rte. 600, near junction of Co. Rte. 600 and Co. Rte. 601. June 3, 1969.
3. R. multiflora Thunb. 664(12). In dry soil on highway right-of-way on west side of Co. Rte. 609 near bridge over the Chickahominy River. May 26, 1970.

11. Rubus L.

- +#1. R. allegheniensis Porter. 673(12), 671(12). In dry, infertile soil of clearing, on east side of Co. Rte. 609 near bridge over the Chickahominy River. May 26, 1970.
2. R. argutus Link. 649(9), 646(16). In dry, infertile soil of disturbed area on west side of Co. Rte. 637, 1.3 miles north of junction of Co. Rte. 637 and Va. Rte. 33. May 22, 1970.
3. R. enslenii Tratt. 71(13). In waste area behind the Sportman's Restaurant, Providence Forge, Va. May 22, 1969.
- +#4. R. hispidus L. 672(12). In dry, infertile soil on west side of Co. Rte. 609 near bridge over the Chickahominy River. May 26, 1970.
5. R. occidentalis L. 670(12). In dry, infertile soil on west side of Co. Rte. 609 near bridge over the Chickahominy River. May 26, 1970.

83. LEGUMINOSAE Juss.

1. Apios Medic.

1. A. americana Medic. 248(4). In moist soil in thicket at edge of Eltham Marsh. August 6, 1969.

2. Cassia L.

- *1. C. fasciculata Michx. 222(19). In moist soil at edge of roadside, on north side of Co. Rte. 617 near Rumley Marsh. July 26, 1969.

3. Centrosema (DC) Benth.

1. C. virginianum (L.) Benth. 207(19). In dry soil on roadside, on Co. Rte. 617 near Criscross. July 26, 1969

4. Cercis L.

- *1. C. canadensis L. 452(11), 351(18). In opening of woods on west side of dirt road, middle of peninsula bounded by the Chickahominy River and Diascund Creek. October 15, 1969.

5. Cytisus L.

- *1. C. scoparius (L.) Link. 534(16). In yard of abandoned house south of ravine on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 6, 1970.

6. Desmodium Desv.

1. D. nudiflorum (L.) DC. 186(8). In opening of woods behind St. Peter's Church, north of Talleyville, Va. July 22, 1969.
2. D. pauciflorum (Nutt.) DC 237(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. August 2, 1969.

7. Gleditsia L.

1. G. triacanthos L. 632(9). Probably a planting in yard at Hampstead. May 20, 1970.

8. Lathyrus L.

- +1. L. hirsutus L. 611(18). In moist soil on dirt road at foot of peninsula bounded by the Chickahominy River and Diascund Creek. May 19, 1970.

2. L. latifolius L. 66(17), 65(17). A field weed east side of Co. Rte. 627, 2.0 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.

9. Lespedeza Michx.

1. L. repens (L.) Bart. 251(8). In dry, infertile soil on roadside, on Co. Rte. 642, 1.0 mile east of St. Peter's Church. August 10, 1969.
- *2. L. virginica (L.) Britt. 255(13). In dry, infertile soil on roadside, on east side of Co. Rte. 608, 0.8 mile south of junction of Co. Rte. 608 and Co. Rte. 604. August 10, 1969.

10. Lupinus L.

- *1. L. perennis L. 509(17), 46(17). On sandy bank on south side of Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.

11. Robinia L.

1. R. pseudo-acacia L. 590(4). In dry soil in yard of abandoned house at Eltham Marsh. May 12, 1970.

12. Stylosanthes Sw.

1. S. biflora (L.) BSP. 119(3). In dry soil on east side of Co. Rte. 600 near county line. June 3, 1969.

13. Tephrosia Pers.

1. T. virginiana (L.) Pers. 99(13). In dry, infertile soil of woodland border near Miss Leonard's house, north side of U.S. Rte. 60, Providence Forge, Va. May 24, 1969.

14. Trifolium L.

1. T. arvense L. 667(12), 127(7). In dry, infertile soil on roadside on Co. Rte. 614, 1.2 miles east of junction of Co. Rte. 614 and Co. Rte. 608. June 4, 1969.
2. T. incarnatum L. 512(1). In dry soil of highway median on U.S. Rte. 60 in Lanexa, Va. May 6, 1970.
3. T. pratense L. 546(1). In dry soil on highway right-of-way, on Co. Rte. 622 in front of Liberty Church, Lanexa, Va. May 9, 1970.

4. T. procumbens L. 547(1). In dry soil on highway right-of-way on Co. Rte. 622 in front of Liberty Church, Lanexa, Va. May 9, 1970.
5. T. repens L. 560(1). In dry soil on highway right-of-way on Co. Rte. 622 in front of Liberty Church, Lanexa, Va. May 9, 1970.

15. Vicia L.

1. V. angustifolia Reich. 485(13), 479(20). In grassy area adjacent to New Kent Ordinary, New Kent, Va. April 24, 1970.
- +#2. V. grandiflora Scop. 612(18). In dry soil of field at foot of peninsula bounded by the Chickahominy River and Diascund Creek. May 19, 1970.
3. V. hirsuta (L.) S.F. Gray 563(15), 480(20). In grassy area adjacent to New Kent Ordinary, New Kent, Va. April 24, 1970.
4. V. villosa Roth. 606(16). In dry soil of highway right-of-way, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 19, 1970.

85. OXALIDACEAE Lindl.

1. Oxalis L.

1. O. stricta L. 507(17). In dry soil of highway right-of-way, on Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. April 29, 1970.
2. O. violacea L. 70(13). In moist soil of lawn, just south of C&O Railway Crossing in Providence Forge, Va. May 22, 1969.

86. GERANIACEAE J. St. Hil.

1. Erodium L'Her.

- *1. E. cicutarium (L.) L'Her. 437(2). In dry soil on highway right-of-way, on south side of Co. Rte. 603, near the Diascund Bridge. April 13, 1970.

2. Geranium L.

1. G. carolinianum L. 97(5), 522(16), 41(15). In dry soil on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 11, 1969.

- +#2. G. molle L. 477(20). In grassy area adjacent to New Kent Ordinary, New Kent, Va. April 24, 1970.

90. MELIACEAE

1. Melia L.

1. M. azedarach L. 88(5). Probably a planting on south side of Co. Rte. 623, 1.0 mile east of junction of Co. Rte. 623 and Co. Rte. 624. May 24, 1969.

91. POLYGALACEAE Desv.

1. Polygala L.

- +1. P. curtissii Gray 340(16). In dry soil at edge of pine woods near ravine, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.
2. P. mariana Mill. 201(2). In moist soil at edge of Diascund Dam on east side of Co. Rte. 621, near the county line. July 22, 1970.

92. EUPHORBIACEAE J. St. Hil.

1. Euphorbia L.

1. E. corollata L. 655(12), 254(8). In dry soil in clearing on south side of Co. Rte. 642, 1.0 mile east of St. Peter's Church. August 10, 1970.
2. E. cyparissias L. 3(2). In dry soil on roadside, on Co. Rte. 627, just north of Diascund Dam. May 9, 1969.
- +3. E. ipecacuanhae L. 508(17). In dry soil of clearing on north side of Co. Rte. 627, 1.5 miles south of the junction of Co. Rte. 627 and Co. Rte. 1002. April 29, 1970.

97. ANACARDIACEAE Lindl.

1. Rhus L.

1. R. copallina L. 64(17), 12(2). In dry, infertile soil of roadside, on east side of Co. Rte. 627, just north of Diascund Dam. May 9, 1969.
2. R. glabra L. 217(9). In dry, infertile soil on roadside, on northeast side of Co. Rte. 608, 1.0 mile northwest of junction of Co. Rte. 608 and Co. Rte. 614. July 26, 1969.

3. R. radicans L. 601a(16). A climbing vine, on Co. Rte. 627, 0.7 mile south of the junction of Co. Rte. 627 and Co. Rte. 1002. May 13, 1970.

99. AQUIFOLIACEAE DC.

1. Ilex L.

- +1. I. decidua Walt. 383(6). In wet lowgrounds of a ravine near Cook Landing on the Pamunkey River. October 31, 1969.
2. I. opaca Ait. 395(10), 296(8). In opening of woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.

100. CELASTRACEAE Lindl.

1. Euonymus L.

1. E. americanus L. 353(18), 93(5). In mesic woods adjacent to Chestnut Grove Farm. May 24, 1969.

102. ACERACEAE J. St. Hil.

1. Acer L.

1. A. rubrum L. 415(7), 470(8), 332(16). In mesic woods of ravine, southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.

105. BALSAMINACEAE Lindl.

1. Impatiens L.

1. I. capensis Meerb. 280(7), 197(2). In wet soil at edge of Diascund Dam, on east side of Co. Rte. 621 near the county line. July 22, 1969.

107. VITACEAE Lindl.

1. Parthenocissus Planch.

1. P. quinquefolia (L.) Planch. 171(13). Climbing vine in woods at edge of Chickahominy River, on west side of Va. Rte. 155 near bridge over Chickahominy River. July 6, 1969.

2. Vitis L.

- +1. V. baileyana Munson. 610(18). In dry soil of clearing on west side of dirt road, middle of peninsula bounded by the Chickahominy River and the Diascund Creek. May 19, 1970.
- 2. V. labrusca L. 659(14), 125(7). On fence on south side of Co. Rte. 614, 1.0 mile north of junction of Co. Rte. 614 and Co. Rte. 608. June 4, 1969.
- 3. V. rotundifolia Michx. 663(14). In border along Chickahominy River at Eddie Allen's #1. May 26, 1970.
- *4. V. vulpina L. 633(9). On fence at Hampstead. May 20, 1970.

109. MALVACEAE Neck.

1. Hibiscus L.

- 1. H. palustris L. 240(4), 190(2). In wet soil at edge of Diascund Dam on east side of Co. Rte. 621 near the county line. July 22, 1969.

2. Malva L.

- +#1. M. neglecta Wallr. 95(5). In dry, infertile soil on roadside, Chestnut Grove Farm. May 24, 1969.

111. GUTTIFERAE

1. Ascyrum L.

- 1. A. hypericoides L. 212(19). In dry, infertile soil on roadside, on Co. Rte. 617 near Criscross. July 26, 1969.

2. Hypericum L.

- *1. H. mutilum L. 199(2). In moist soil at edge of Diascund Dam on east side of Co. Rte. 621 near the county line. July 22, 1969.
- 2. H. punctatum Lam. 205(19). In dry soil on roadside, on Co. Rte. 617 near Criscross. July 26, 1969.

114. CISTACEAE

1. Helianthemum Mill.

- +#1. H. canadense (L.) Michx. 621(17). In dry, infertile soil at edge of path through woods, south of Co. Rte. 627, 1.4 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 20, 1970.

115. VIOLACEAE DC

1. Viola L.

1. V. arvensis Murr. 67(17). In field on west side of Co. Rte. 627 just south of C&O Railway Crossing. May 15, 1969.
2. V. pallens (Banks) Brainerd. 492(6). In moist soil on trail through woods, Jeep Trail #2 leading to Cook Landing on the Pamunkey River. April 25, 1970.
- +#3. V. palmata L. 493(6), 529(7), 474(7). In moist soil in woods at St. Peter's Swamp. April 20, 1970.
4. V. papilionacea Pursh. 433(20), 420(17). In moist soil of depression, east side of Co. Rte. 627 just south of C&O Railway Crossing. April 1, 1970.
5. V. pedata L. 494(6). In dry, clay soil on roadside bank, on Co. Rte. 637, 0.3 mile north of the junction of Co. Rte. 637 and Va. Rte. 33. April 25, 1970.
6. V. pedata L. var. lineariloba DC. 495(6). In dry clay soil on roadside bank on Co. Rte. 637, 0.3 mile north of junction of Co. Rte. 637 and Va. Rte. 33. April 25, 1970.
7. V. sagittata Ait. 475(8), 487(6), 449(7). In dry soil on highway right-of-way, on west side of Co. Rte. 608 just north of St. Peter's Swamp. April 20, 1970.
8. V. kitaibeliana R & S var. rafinesquii (Greene) Fern. 409(1). On lawn of Liberty Church, Lanexa, Va. March 23, 1970.

116. PASSIFLORACEAE

1. Passiflora L.

1. P. lutea L. 139(11). In dry, infertile soil on roadside, on south side of Co. Rte. 612, near the junction of Co. Rte. 612 and Co. Rte. 640. June 6, 1969.

118. CACTACEAE

1. Opuntia Mill.

- #1. O. humifusa Raf. 204(19). In dry, sandy soil on roadside bank, on southeast side of Co. Rte. 617, 1.0 mile south of junction of Co. Rte. 617 and Co. Rte. 604. July 26, 1969.

121. LYTHRACEAE Lindl.

1. Lythrum L.

- +#1. L. salicaria L. 200(2). In wet soil at edge of Diascund Dam, on east side of Co. Rte. 621, near county line. July 22, 1969.

122. NYSSACEAE

1. Nyssa L.

- *1. N. sylvatica Marsh. 702(15). In moist soil at edge of Chickahominy River, on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 24, 1970.

123. MELASTOMACEAE R. Br.

1. Rhexia L.

1. R. mariana L. 214(19), 183(2). In moist soil on roadside, on west side of Co. Rte. 603, 2.0 miles north of junction of Co. Rte. 603 and Co. Rte. 620. July 6, 1969.

125. ONAGRACEAE Dumort.

1. Circea L.

1. C. quadrisulcata (Maxim.) Franch. & Sav. 143(7). In mesic woods on western-facing slope at St. Peter's Swamp. June 8, 1969.

2. Jussiaea L.

1. J. decurrens (Walt.) DC. 358(18), 173(2). In wet soil at edge of Diascund Dam, on east side of Co. Rte. 621 near county line. July 6, 1969.

3. Ludwigia L.

1. L. alternifolia L. 323(18). In moist soil at edge of marsh on Diascund Creek, at foot of peninsula bounded by the Diascund Creek and the Chickahominy River. October 15, 1969.
- +2. L. palustris (L.) Ell. 326(18). In moist soil at edge of marsh on Diascund Creek, at foot of peninsula bounded by the Diascund Creek and the Chickahominy River. October 15, 1969.

4. Oenothera L.

1. O. laciniata Hill. 52(17). A field weed on east side of Co. Rte. 627, 2.3 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.
- +2. O. speciosa Nutt. 624a(17). In moist soil of highway right-of-way, on north side of Co. Rte. 627, 1.0 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 20, 1970.

126. HALORAGACEAE Lindl.

1. Myriophyllum L.

1. M. brasiliense Camb. 26(14). In shallow water in Chickahominy River, Dillon's Landing near Windsor Shades, Va. May 11, 1969.

128. ARALIACEAE Vent.

1. Aralia L.

1. A. spinosa L. 354(18). In mesic woods, middle of peninsula bounded by the Chickahominy River and the Diascund Creek. October 15, 1969.

129. UMBELLIFERAE B. Juss.

1. Chaerophyllum L.

- +1. C. tainturieri Hook. 516(8), 478(20). In grassy area adjacent to New Kent Ordinary, New Kent, Va. April 24, 1970.

2. Cryptotaenia DC

1. C. canadensis (L.) DC. 141b(7). In mesic woods on western-facing slope at St. Peter's Swamp. June 8, 1969.

3. Hydrocotyl L.

1. H. umbellata L. 37(14). In wet soil along shoreline of Chickahominy River, Dillon's Landing, near Windsor Shades, Va. May 11, 1969.

4. Lilaeopsis Greene

1. L. sp. 683(4). In wet, sandy soil at edge of Eltham Marsh on the Pamunkey River. May 28, 1970.

5. Ptilimnium Raf.

1. P. capillaceum (Michx.) Raf. 241(4). In wet soil at edge of Eltham Marsh. August 6, 1969.

6. Thaspium Nutt.

1. T. barbinode (Michx.) Nutt. 648(9). In rich woods on south side of Co. Rte. 608, 0.5 mile west of junction of Co. Rte. 608 and Co. Rte. 609. May 22, 1970.

130. CORNACEAE Link.

1. Cornus L.

1. C. florida L. 393(10), 468(8), 301(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. September 28, 1969.

131. CLETHRACEAE

1. Clethra L.

1. C. alnifolia L. 195(2), 172(2). In moist soil at edge of Diascund Dam, on west side of Co. Rte. 621 near the county line. July 6, 1969.

132. PYROLACEAE

1. Chimaphila Pursh

1. C. maculata (L.) Pursh. 79(8). In opening of woods behind St. Peter's Church, north of Talleyville, Va. May 22, 1969.
2. C. umbellata (L.) Bart. 151(5), 105(8). In dry pine woods near St. Peter's Church, north of Talleyville, Va. May 28, 1969.

2. Monotropa L.

1. M. uniflora (L.) Gray. 396(10). In rich deciduous woods, southeast side of Southern Railway near Quinton, Va. November 5, 1969.

133. ERICACEAE DC

1. Epigaea L.

1. E. repens L. 428(6), 385(6). In dry, infertile soil on steep western-facing slope of ravine, south of Cook Landing on the Pamunkey River. October 31, 1969.

2. Gaylussacia H. B. K.

1. G. baccata (Wang.) K. Koch. 489(6), 8(2). In moist open woods at edge of Diascund Dam. May 9, 1969.
2. G. frondosa (L.) T. & G. 607(16). In dry, infertile soil of road bank, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 19, 1970.

3. Kalmia L.

1. K. latifolia L. 327(16), 98(5). In dry soil on roadside, entrance to Chestnut Grove Farm. May 24, 1969.

4. Leucothoe D. Don

1. L. racemosa (L.) Gray. 29(14), 59(17), 1(2). In moist soil at edge of Diascund Dam. May 9, 1969.

5. Lyonia Nutt.

1. L. mariana (L.) D. Don. 647(6), 624b(17). In dry, infertile soil on trail through woods, south side of Co. Rte. 627, 1.3 miles south of Co. Rte. 627 and Co. Rte. 1002. May 20, 1970.

6. Oxydendrum DC

1. O. arboreum (L.) DC(2), 364(2). In dry, infertile soil in clearing on roadside, on northwest side of Co. Rte. 620, 1.2 miles southwest of junction of Co. Rte. 620 and Co. Rte. 632. October 28, 1969.

7. Rhododendron L.

1. R. nudiflorum (L.) Torr. 510(17), 491(6). In moist soil of trail through woods, Jeep Trail #2 leading to Cook Landing on the Pamunkey River. April 25, 1970.

8. Vaccinium L.

1. V. atrococcum (Gray) Heller. 454(11), 451(3). In wet woods on north side of Ware Creek. April 16, 1970.
2. V. corymbosum L. 502(1), 9(2). In moist open woods at edge of Diascund Dam. May 9, 1969.
- +3. V. elliotii Chapm. 488(6). In moist soil on woodland trail, Jeep Trail #2 leading to Cook Landing on the Pamunkey River. April 25, 1970.
4. V. stamineum L. 78(8), 501(1), 7(2). In moist open woods at edge of Diascund Dam. May 9, 1969.
5. V. vacillans Torr. 469(8), 455(11). In dry soil on highway right-of-way, on south side of U.S. Rte. 60 near Toe Ink Wayside. April 1970.

134. DIAPENSIACEAE

1. Galax L.

1. G. aphylla L. 615(16), 156(16). In dry soil of woods, on northwest side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. June 17, 1969.

135. PRIMULACEAE Vent.

1. Anagallis L.

1. A. arvensis L. 625(13). In dry, infertile soil of waste area adjacent to Providence Forge Post Office, north side of U.S. Rte. 60 in Providence Forge, Va. May 20, 1970.

2. Lysimachia L.

1. L. nummularia L. 101(8). On the lawn of St. Peter's Church, north of Talleyville, Va. May 28, 1969.
- +2. L. terrestris (L.) BSP. 164(15). In moist soil on roadside, on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. June 22, 1969.

3. Samolus L.

- *1. S. parviflorus Raf. 597(4). In wet soil at edge of Pamunkey River at Eltham Farm. May 12, 1970.

138. EBENACEAE

1. Diospyros L.

1. D. virginiana L. 701(15). In moist soil at edge of Chickahominy River, on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 29, 1970.

139. SYMPLOCACEAE

1. Symplocus Jacq.

1. S. tinctoria (L.) L'Her. 498(12), 311(12). In moist soil on roadside, on east side of Co. Rte. 609, near bridge over the Chickahominy River. October 8, 1969.

141. OLEACEAE

1. Chionanthus L.

1. C. virginicus L. 11(1). In moist soil at edge of Diascund Creek, north side of U.S. Rte. 60 at Lanexa, Va. May 9, 1969.

2. Fraxinus L.

1. F. tomentosa Michx. f. 658(14). In moist soil at edge of marsh on Chickahominy River at Eddie Allen's #1. May 26, 1970.

3. Ligustrum L.

1. L. sinense Lour. 706(15). In dry soil of roadside of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 29, 1970.

142. LOGANIACEAE

1. Gelsemium Juss.

- *1. G. sempervirens (L.) Ait. f. 504(1), 497(6). In moist soil at edge of woods on east side of Co. Rte. 637, 0.5 mile north of junction of Co. Rte. 637 and Va. Rte. 33. April 25, 1970.

2. Polypremum L.

1. P. procumbens L. 198(2). In dry, infertile soil on roadside on Co. Rte. 621 near county line. July 22, 1969.

143. GENTIANACEAE Desv.

1. Obolaria L.

1. O. virginica L. 471(8). In moist soil in woods near St. Peter's Church, north of Talleyville, Va. April 20, 1970.

2. Sabatia Adans.

- *1. S. angularis (L.) Pursh. 224(19). In dry soil on roadside, on Co. Rte. 617 near Criscross. July 26, 1969.
2. S. paniculata (Michx.) Pursh. 202(2). In dry soil on roadside, on Co. Rte. 621 near county line. July 22, 1969.

144. APOCYNACEAE Desv.

1. Apocynum L.

1. A. cannabinum L. 138(11). In dry soil on roadside, on Co. Rte. 612 near junction of Co. Rte. 612 and Co. Rte. 640. June 6, 1969.

2. Vinca L.

1. V. minor L. 410(1). In dry soil in cemetery behind Liberty Church, Lanexa, Va. March 23, 1970.

145. ASCLEPIADACEAE Lindl.

1. Asclepias L.

1. A. amplexicaule Sm. 124(7). In moist soil on roadside, on southeast side of Co. Rte. 614, 1.0 mile north of junction of Co. Rte. 614 and Co. Rte. 608. June 4, 1969.
2. A. incarnata L. 244(4). In wet soil at Eltham Marsh. August 6, 1969.
- +#3. A. syriaca L. 126(7). In dry soil on roadside, on southeast side of Co. Rte. 614, 0.4 mile north of junction of Co. Rte. 614 and Co. Rte. 608. June 4, 1969.
4. A. tuberosa L. 149(5). In dry soil on roadside, on Co. Rte. 623, 1.4 miles directly north of junction of Co. Rte. 623 and Va. Rte. 33. June 8, 1969.
5. A. variegata L. 150(5). In dry soil on roadside, entrance to Chestnut Grove Farm. June 8, 1969.

146. CONVULVULACEAE Vent.

1. Breweria R. Br.

- *1. B. humistrata (Walt.) Gray. 170(13). In dry soil on roadside, on west side of Va. Rte. 155 near the bridge over the Chickahominy River. July 6, 1969.

2. Cuscuta L.

1. C. compacta Juss. 384(6). Climbing vine on shrub in bottom of ravine south of Cook Landing on the Pamunkey River. October 31, 1969.

3. Ipomoea L.

1. I. coccinea L. 356(18), 285(7). In dry soil on roadside, on west side of Co. Rte. 608 at St. Peter's Swamp.
2. I. hederacea (L.) Jacq. 355(18). In dry soil on roadside, middle of peninsula bounded by the Chickahominy River and Diascund Creek. October 15, 1969.
3. I. pandurata (L.) G. F. W. Mey. 182(2). In dry soil on roadside, on west side of Co. Rte. 603 near the Diascund Bridge. July 6, 1969.

147. POLEMONIACEAE

1. Phlox L.

- +#1. P. divaricata L. 630(9). In dry soil on drive at Hampstead. May 20, 1970.

2. Polemonium L.

1. P. reptans L. 482(7). In moist soil at edge of stream, east side of Co. Rte. 608 at St. Peter's Swamp. April 24, 1970.

148. HYDROPHYLLACEAE

1. Phacelia Juss.

1. P. dubia (L.) Trel. 565(15). In moist soil on roadside, on dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 9, 1970.



149. BORAGINACEAE Lindl.

1. Lithospermum L.

1. L. arvense L. 463(13). In dry soil of highway right-of-way, on east side of Va. Rte. 155 near bridge over Chickahominy River. April 17, 1970.

2. Myosotis L.

- *1. M. laxa Lehm. 15(1). In moist soil of meadow in front of Liberty Church, Lanexa, Va. May 9, 1969.
- +#2. M. versicolor (Pers.) Sm. 556a(1), 506(17). In dry soil of highway right-of-way on south side of Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. April 29, 1970.

150. VERBENACEAE J. St. Hil.

1. Callicarpa L.

1. C. americana L. 352(18), 208(19). In moist soil at edge of rich woods, on south side of Co. Rte. 617 near Criscross. July 26, 1969.

2. Verbena L.

1. V. urticifolia L. 218(7). In moist soil on roadside, on north side of Co. Rte. 608, 1.0 mile north of junction of Co. Rte. 608 and Co. Rte. 614. July 26, 1969.

151. LABIATAE

1. Glechoma L.

1. G. hederacea L. 573(13). In dry, infertile soil in waste area behind Sportman's Restaurant, Providence Forge, Va. May 10, 1970.

2. Lamium L.

1. L. amplexicaule L. 408(17). A field weed, east side of Co. Rte. 627 just south of C&O Railway. March 23, 1970.

3. Lycopus L.

1. L. virginicus L. 243(4). In moist soil at Eltham Marsh. August 6, 1969.

4. Prunella L.

1. P. vulgaris L. 206(19). A roadside weed in moist soil, on Co. Rte. 617 near Rumley Marsh. July 26, 1969.

5. Salvia L.

1. S. lyrata L. 146(5), 21(1). A roadside weed on Co. Rte. 622, near Lanexa, Va. May 9, 1969.

6. Scutellaria L.

1. S. elliptica Muhl. 147(5). A roadside weed on Co. Rte. 623, near eastern junction of Co. Rte. 623 and Va. Rte. 33. June 8, 1969.
2. S. integrifolia L. 148(5), 144(5). A roadside weed on Co. Rte. 623 near eastern junction of Co. Rte. 623 and Va. Rte. 33. June 8, 1969.

7. Trichostema L.

1. T. dichotomum L. 312(12). In dry soil on roadside, on Co. Rte. 609 at bridge over the Chickahominy River. October 8, 1969.

152. SOLANACEAE Zinn.

1. Solanum L.

1. S. carolinense L. 180(2). In dry, infertile soil on south side of Co. Rte. 603 near the Diascund Bridge. July 6, 1969.

153. SCROPHULARIACEAE Lindl.

1. Gerardia L.

1. G. purpurea L. 282(7). In moist soil on west side of Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.

2. Gratiola L.

- *1. G. virginiana L. 626(9). In wet soil in sluggish stream at Hampstead. May 20, 1970.

3. Linaria Mill.

- *1. L. canadensis (L.) Dumont. 505(17), 483(13). In dry, infertile soil on highway right-of-way, on Va. Rte. 155 near bridge over Chickahominy River. April 24, 1970.

4. Paulownia Sieb. et Zucc.

1. P. tomentosa (Thunb.) Steud. 519(8). Probably a planting in yard of a house, on south side of Va. Rte. 33, 1.6 miles west of junction of Va. Rte. 33 and Co. Rte. 604. May 6, 1970.

5. Penstemon Mitch.

1. P. pallidus Sm. 82(13), 51(17). In damp soil on roadside on Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.

6. Scrophularia L.

1. S. marilandica L. 637(9). In moist soil of roadside bank, on south side of Co. Rte. 608, 0.5 mile west of junction of Co. Rte. 608 and Co. Rte. 609. May 20, 1970.

7. Verbascum L.

1. V. blattaria L. 123(7), 94(5). In moist soil on roadside entrance to Chestnut Grove Farm. May 24, 1969.
- *2. V. thaspsus L. 703(12). In dry, infertile soil on roadside on west side of Co. Rte. 609 near the bridge over the Chickahominy River. May 29, 1970.

8. Veronica L.

- *1. V. anagallis-aquatica L. 260(7). In shallow water at St. Peter's Swamp. September 13, 1969.
- *2. V. arvensis L. 476(20), 460(13). In dry, infertile soil on highway right-of-way, on Va. Rte. 155 near bridge over Chickahominy River. May 17, 1970.
3. V. officinalis L. 628(9), 91(5). In dry, infertile soil on path at Chestnut Grove Farm. May 24, 1969.
4. V. persica Poir. 434(8). In lawn in front of St. Peter's Church, north of Talleyville, Va. April 8, 1970.

154. BIGNONIACEAE Pers.

1. Bignonia L.

- *1. B. capreolata L. 47(17). Climbing vine on tree on east side of Co. Rte. 627, 2.0 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 15, 1969.

2. Campsis Lour.

- *1. C. radicans (L.) Seem. 168(15). On fence on dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. June 22, 1969.

3. Catalpa Scop.

- +1. C. speciosa Warder. 659(14). Probably a planting in yard of house near Eddie Allen's #1 on the Chickahominy River. May 26, 1970.

156. OROBANCHACEAE Lindl.

1. Epifagus Nutt.

- *1. E. virginiana (L.) Bart. 338(16), 223(8). In mesic woods near St. Peter's Church, north of Talleyville, Va. July 29, 1969.

158. ACANTHACEAE J. St. Hil.

1. Ruellia L.

1. R. caroliniensis (Walt.) Steud. 209(19). In dry soil on roadside on Co. Rte. 617 near Criscross. July 26, 1969.

159. PHRYMACEAE Schauer

1. Phryma L.

1. P. leptostachya L. 225(8), 185(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. July 22, 1969.

160. PLANTAGINACEAE Lindl.

1. Plantago L.

1. P. aristata Michx. 174(2). In dry soil of field on south side of Co. Rte. 603 near Diascund Bridge. July 6, 1969.
- *2. P. lanceolata L. 517(16). In dry, infertile soil of highway right-of-way, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 6, 1970.
3. P. virginica L. 530(16), 39(15). In dry soil on roadside, on dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 11, 1969.

161. RUBIACEAE B. Juss.

1. Cephalanthus L.

1. C. occidentalis L. 167(15). In wet soil of marsh on west side of dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. June 22, 1969.

2. Diodia L.

1. D. teres Walt. 211(19), 328(18), 210(19). In sandy soil on roadside, on Co. Rte. 617 near Criscross. July 26, 1969.
2. D. virginiana L. 220(19). In moist soil on roadside, on Co. Rte. 617 near Criscross. July 26, 1969.

3. Galium L.

1. G. aparine L. 541(1), 43(15). In moist soil on roadside on dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 11, 1969.
2. G. circaezans Michx. 109(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. May 28, 1969.
- +#3. G. obtusum Bigel. 686(7), 650(9). In moist soil in woods, on south side of Co. Rte. 608, 0.5 mile west of junction of Co. Rte. 608 and Co. Rte. 609. May 22, 1970.

4. Houstonia L.

1. H. caerulea L. 429(6), 77(8). In moist soil in open grassy area in front of St. Peter's Church, north of Talleyville, Va. May 22, 1969.
2. H. purpurea L. 652(9), 122(7). In mesic woods on western-facing slope at St. Peter's Swamp. June 4, 1969.

5. Mitchella L.

1. M. repens L. 644(6), 145(7). In mesic woods on western-facing slope, St. Peter's Swamp. June 8, 1969.

6. Sherardia L.

1. S. arvensis L. 513(8). In dry soil on east side of Co. Rte. 609, at junction of Co. Rte. 609 and Va. Rte. 33. May 6, 1970.

162. CAPRIFOLIACEAE Vent.

1. Lonicera L.

1. L. japonica Thunb. 369(17), 92(5). On fence at Chestnut Grove Farm. May 24, 1969.
- *2. L. sempervirens L. 569(12), 574(11). At edge of woods on south side of U.S. Rte. 60 near Toe Ink Wayside. May 9, 1970.

2. Sambucus L.

1. S. canadensis L. 117(2). In moist soil on roadside, on west side of Co. Rte. 621 near the county line. June 3, 1969.

3. Viburnum L.

1. V. acerifolium L. 639(6), 390(6). On trail in woods, Jeep Trail #1 leading to ravines south of Cook Landing on the Pamunkey River. October 31, 1969.
- *2. V. dentatum L. 634(1), 223(7). In moist soil on roadside, east side of Co. Rte. 608 at St. Peter's Swamp. July 26, 1969.
3. V. nudum L. 388(6), 330(16). In bottom of ravine, on southeast side of Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.
4. V. prunifolium L. 656(14). In moist soil at edge of Chickahominy River at Eddie Allen's #1. May 26, 1970.

164. VALERIANACEAE Barch.

1. Valerianella Mill.

1. V. olitoria (L.) Poll. 459(13). In dry soil of highway right-of-way, on east side of Va. Rte. 155 near bridge over Chickahominy River. April 17, 1970.
2. V. radiata (L.) DuRoi. var. fernaldii Dyal. 107(8), 514(8), 44(15). In moist soil on roadside, on dirt road extension of Co. Rte. 647, 0.8 mile south of junction of Co. Rte. 647 and U.S. Rte. 60. May 11, 1969.

167. LOBELIACEAE Dumort.

1. Lobelia L.

1. L. cardinalis L. 247(14). In moist soil at edge of Chickahominy River, Eddie Allen's #2 on Co. Rte. 627. August 6, 1969.
2. L. inflata L. 219(19). In dry soil on roadside, on Co. Rte. 617 near Criscross. July 26, 1969.
3. L. siphilitica L. 261(8). In moist soil in woods behind St. Peter's Church, north of Talleyville, Va. September 13, 1969.

2. Specularia Fabricius

1. S. perfoliata (L.) A. DC. 588(4), 69(13). In dry soil in waste area behind Sportman's Restaurant at Providence Forge, Va. May 22, 1969.

168. COMPOSITAE Adans.

1. Achillea L.

1. A. millefolium L. 178(2), 128(7). In dry soil on roadside, on Co. Rte. 614, 1.0 mile north of junction of Co. Rte. 614 and Co. Rte. 608. June 4, 1969.

2. Antennaria Gaertn.

1. A. plantaginifolia (L.) Hook. 441(17), 2(2). In dry soil on roadside, on Co. Rte. 627 just north of Diascund Dam. May 9, 1969.
2. A. solitaria Rydb. 425(8). In mesic woods near St. Peter's Church, north of Talleyville, Va. April 8, 1970.

3. Anthemis L.

1. A. arvensis L. 566(13). In dry, infertile soil of highway right-of-way, on east side of Co. Rte. 608, 1.0 north of junction of Co. Rte. 608 and U.S. Rte. 60. May 9, 1970.

4. Aster L.

1. A. grandiflorus L. 360(17). In dry soil on roadside, on Co. Rte. 627 near C&O Railway Crossing. October 28, 1969.

2. A. simplex Willd. 268(7). In moist soil on roadside, on Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.
3. A. undulatus L. 346(18), 278(7). In dry soil on roadside, on Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.
4. A. vimineus Lam. 266(7). In moist soil on roadside, on Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.

5. Bidens L.

1. B. polylepis Blake. 362(17). In moist soil east of Co. Rte. 627 near C&O Railway Crossing. October 28, 1969.

6. Centaurea L.

1. C. cyanus L. 570(13). In dry, infertile soil of highway right-of-way on Va. Rte. 155 near bridge over the Chickahominy River. May 10, 1970.

7. Chrysanthemum L.

- *1. C. leucanthemum L. 567(11), 54(17). In field on west side of Co. Rte. 627 south of C&O Railway Crossing. May 15, 1969.

8. Chrysopsis Ell.

1. C. graminifolia (Michx.) Ell. 249(8), 193(2). In dry soil on roadside, on Co. Rte. 621 near the county line. July 22, 1969.
2. C. mariana (L.) Ell. 279(7), 349(16), 361(17), 363(17), 258(8). In dry soil on roadside bank, on Co. Rte. 642 near St. Peter's Church. September 15, 1969.

9. Cirsium Mill.

1. C. horridulum Michx. 601b(18). In dry, infertile soil of dirt road through open woods, on southeast side of Co. Rte. 627, 0.5 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. May 19, 1970.

10. Coreopsis L.

- +#1. C. lanceolata L. 83(1). In dry soil on roadside, on south side of U.S. Rte. 60 East near bridge over Diascund Creek, Lanexa, Va. May 22, 1969.

11. Elephantopus L.

1. E. carolinianus Willd. 259(8). In dry open woods near St. Peter's Church, north of Talleyville, Va. September 13, 1969.
2. E. nudatus Gray. 235(8), 234(8). In open woods near St. Peter's Church, north of Talleyville, Va. July 29, 1969.

12. Erigeron L.

1. E. annuus (L.) Pers. 72(17). In dry, infertile soil on roadside, on Co. Rte. 627, 1.5 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. May 22, 1969.
2. E. puchellus Michx. 609(18). In moist soil of woods on steep western-facing slope above the Chickahominy River, middle of peninsula bounded by the Chickahominy River and Diascund Creek. May 19, 1970.
3. E. strigosus Muhl. 620(17), 142(5). In dry, infertile soil on roadside, entrance to Chestnut Grove Farm. June 8, 1969.

13. Eupatorium L.

- +#1. E. aromaticum L. 350(18). In open woods, middle of peninsula bounded by the Chickahominy River and Diascund Creek. October 15, 1969.
- *2. E. capillifolium (Lam.) Sm. 341(16). In moist soil of abandoned lawn, just south of ravine on Co. Rte. 627, 0.7 mile south of junction of Co. Rte. 627 and Co. Rte. 1002. October 15, 1969.
3. E. coelestinum L. 187(8). In moist soil of woodland border, near St. Peter's Church, north of Talleyville, Va. July 22, 1969.
4. E. hyssopifolium L. 250(8). In dry, infertile soil of clearing on roadside, on Co. Rte. 642, 1.0 mile east of St. Peter's Church. August 10, 1969.
5. E. leucolepis T. & G. 252(8). In dry, infertile soil of clearing on roadside on Co. Rte. 642, 1.0 mile east of St. Peter's Church. August 10, 1969.
6. E. rotundifolium L. 257(13). In dry, infertile soil of clearing on roadside, on Co. Rte. 608, 0.2 mile south of junction of Co. Rte. 608 and Co. Rte. 604. August 10, 1969.

14. Gnaphalium L.

1. G. obtusifolium L. 281(7). In dry, infertile soil of roadside, on Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.
- *2. G. purpureum L. 544(1). In dry, infertile soil of highway right-of-way, on Co. Rte. 622 in front of Liberty Church, Lanexa, Va. May 9, 1970.

15. Hieracium L.

1. H. gronovii L. 89(5). In dry, infertile soil on roadside, Chestnut Grove Farm. May 24, 1969.
2. H. venosum L. 527(8), 102(8). In mesic woods behind St. Peter's Church, north of Talleyville, Va. May 28, 1969.

16. Hypochoeris L.

1. H. radicata L. 181(2), 577(12), 137(11). In dry, infertile soil on roadside, north side of U.S. Rte. 60 near Toe Ink Wayside. June 6, 1969.

17. Iva L.

1. I. frutescens L. 696(4). In wet soil at Eltham Marsh on the Pamunkey River. May 28, 1970.

18. Krigia Schreb.

- +#1. K. dandelion (L.) Nutt. 539(1). In dry, infertile soil in cemetery behind Liberty Church, Lanexa, Va. May 9, 1970.
- *2. K. virginica (L.) Willd. 537(16), 438(2). In dry, infertile soil on Co. Rte. 603 near Diascund Bridge. April 13, 1970.

19. Mikania Willd.

1. M. scandens (L.) Willd. 318(12), 267(7). Trailing vine on roadside, on Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.

20. Parthenium L.

1. P. integrifolium L. 203(2). In dry, infertile soil on roadside, on Co. Rte. 621 near the county line. July 22, 1969.

21. Pyrrhopappus DC

1. P. carolinianus (Walt.) DC. 179(2). In dry, infertile soil of field, south side of Co. Rte. 603 near the Diascund Bridge. July 6, 1969.

22. Rudbeckia L.

- *1. R. hirta L. 344(8), 177(2). In dry, infertile soil of field, south side of Co. Rte. 603 near the Diascund Bridge. July 6, 1969.

23. Senecio L.

- *1. S. aureus L. 472(8), 108(8). In moist soil of woods behind St. Peter's Church, north of Talleyville, Va. May 28, 1969.
- *2. S. smallii Britt. 73(13), 55(17). In dry, infertile soil of field, west side of Co. Rte. 627, just south of C&O Railway Crossing. May 15, 1969.

24. Sericocarpus Nees

1. S. asteroides (L.) BSP. 155(16), 192(2). In moist soil of woodland border, near ravine on southeast side of Co. Rte. 627, 0.7 mile south of the junction of Co. Rte. 627 and Co. Rte. 1002. June 17, 1969.

25. Silphium L.

1. S. trifoliatum L. 216(19). In open woods on north side of Co. Rte. 617 near Criscross. July 26, 1969.

26. Solidago L.

1. S. altissima L. 269(7). In dry, infertile soil on roadside, on west side of Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.
2. S. bicolor L. 347(18). In moist soil of woodland, middle of peninsula bounded by the Chickahominy River and the Diascund Creek. October 15, 1969.
- *3. S. caesia L. 348(18), 275(7). In open woods on west side of Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.
4. S. nemoralis Ait. 271(7). In dry, infertile soil on roadside, on Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.

5. S. odora Ait. 256(13). In dry soil of clearing on roadside on east side of Co. Rte. 608, 0.2 mile south of junction of Co. Rte. 608 and Co. Rte. 604. August 10, 1969.
- #6. S. pinetorum Sm. 191(2). In dry soil on roadside, on Co. Rte. 621 near county line. July 22, 1969.
7. S. rugosa Ait. 276(7), 309(12), 359(17), 270(7). In moist soil of woods on west side of Co. Rte. 608 at St. Peter's Swamp. September 21, 1969.
8. S. ulmifolia Muhl. 264(8). In dry woods near St. Peter's Church, north of Talleyville, Va. September 13, 1969.

27. Sonchus L.

1. S. asper (L.) Hill. 661(14). In dry, infertile soil on highway right-of-way, on Co. Rte. 650 at the junction of Co. Rte. 650 and U.S. Rte. 60. May 26, 1970.

28. Taraxacum Zinn

- *1. T. officinale Weber. 405(17). In moist soil on roadside, on northwest side of Co. Rte. 627, 1.1 miles south of junction of Co. Rte. 627 and Co. Rte. 1002. March 23, 1970.

29. Tussilago L.

- +#1. T. farfara L. 417(7). In clay soil on roadside, on east side of Co. Rte. 608, near junction of Co. Rte. 608 and Va. Rte. 33. March 25, 1970.

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VITA

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The author was born in Bryn Mawr, Pennsylvania, on September 9, 1945. She was graduated from the Mascoutah Community High School, Mascoutah, Illinois, in June 1963, and from Sweet Briar College, Sweet Briar, Virginia, in June, 1967.

She attended Cornell University, Ithaca, New York, under a teaching and research fellowship from July, 1967, until October, 1968. She transferred to the College of William and Mary in January, 1969, as a Graduate Student in the Department of Biology.

She has served as a Teaching Assistant and has held State of Virginia Graduate Scholarships during the summers of 1969 and 1970. Her course requirements were completed in June, 1970.

Thesis Title: The Vascular Plants of New Kent County.

REQUESTS FOR INFORMATION ON
ROADS SHOWN ON THIS MAP SHOULD BE ADDRESSED TO
DISTRICT ENGINEER, DEPARTMENT OF HIGHWAYS
BOX 339, PETERSBURG, VIRGINIA

LEGEND

- CORPORATE LIMITS AND
HIGHLIGHTED TOWN LINES
- COUNTY SEAT
- SMALL TOWN OR VILLAGE
HIGHLIGHTED BY FEET AND OVER
- COUNTY LINE
- MUNICIPAL DISTRICT
- TOWN BOUNDARY OR INCORPORATION
- RAILROAD TONNAGE TRACK
- RAILROAD TRACK OR MORE TRACKS
- TOLLS FERRY
- TOLL FERRY
- RAILROAD GRADE CROSSING
- RAILROAD ABOVE ROAD
- RAILROAD BELOW ROAD
- RAILROAD TUNNEL
- NAVY SHIPYARD
- ALL RAILROADS UNRAIL
- LIGHT TUNNEL
- UNRAIL
- SCHOOL
- CHURCH
- SCHOOL BUS ROUTE
- ROAD ONE HOUR
- FEDERAL RD PRIMARY
- FEDERAL RD SECONDARY ROAD
- U.S. & RAILROAD INTERSECT
- US PRIMARY HIGHWAY
- US SECONDARY HIGHWAY
- INTERSTATE HIGHWAY
- PROPOSED CONSTRUCTION

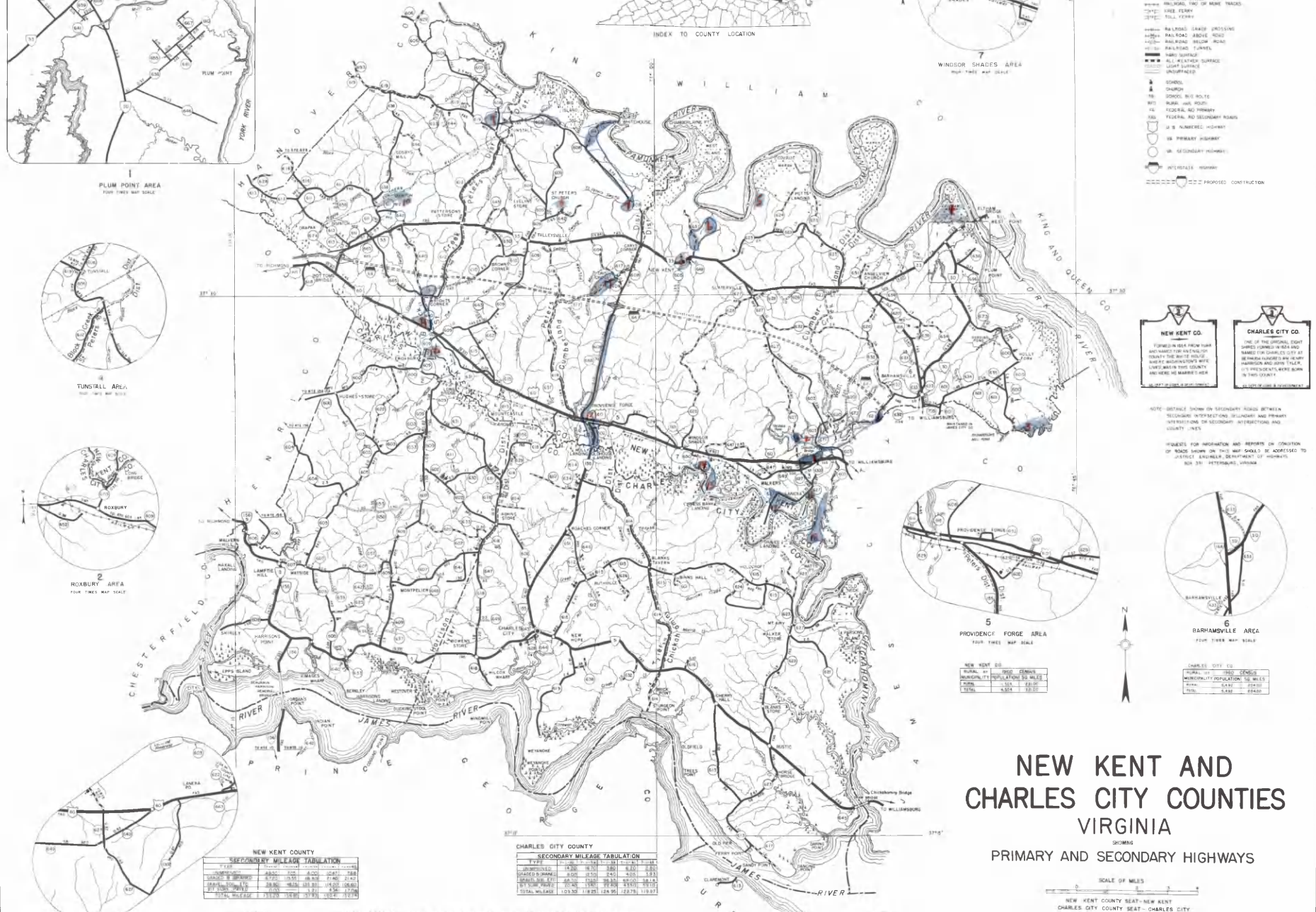


NEW KENT CO.
FOUNDED IN 1634 FROM PART
OF THE ORIGINAL COUNTY OF
CHARLES CITY COUNTY AND
NAMED FOR CHARLES CITY AT
NEW HAMPDEN AND JOHN TAYLOR,
ITS FIRST COUNTY SEAT, BORN
IN THIS COUNTY.

CHARLES CITY CO.
ONE OF THE ORIGINAL COUNTIES
FORMED IN 1634 FROM PART
OF THE ORIGINAL COUNTY OF
NEW KENT COUNTY AND NAMED
FOR CHARLES CITY AT NEW
HAMPDEN AND JOHN TAYLOR,
ITS FIRST COUNTY SEAT, BORN
IN THIS COUNTY.

NOTE: DISTANCE SHOWN ON SECONDARY ROADS BETWEEN
SECONDARY INTERSECTIONS (LANDMARK AND PRIMARY
INTERSECTIONS OR SECONDARY INTERSECTIONS AND
COUNTY LINES)

REQUESTS FOR INFORMATION AND REPORTS ON CONDITION
OF ROADS SHOWN ON THIS MAP SHOULD BE ADDRESSED TO
DISTRICT ENGINEER, DEPARTMENT OF HIGHWAYS
BOX 339, PETERSBURG, VIRGINIA



NEW KENT COUNTY
SECONDARY MILEAGE TABULATION

TYPE	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
UNRAIL	14,300	14,300	14,300	14,300	14,300	14,300	14,300	14,300	14,300	14,300	14,300
RAILROAD	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
TOTAL	15,300	15,300	15,300	15,300	15,300	15,300	15,300	15,300	15,300	15,300	15,300

TOTAL PRIMARY MILEAGE IN NEW KENT COUNTY AS OF JAN. 1, 1960 — 53.19 MI.
NEW KENT COUNTY AREA WEST OF DIABLOID BRIDGE

CHARLES CITY COUNTY
SECONDARY MILEAGE TABULATION

TYPE	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
UNRAIL	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300
RAILROAD	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
TOTAL	13,300	13,300	13,300	13,300	13,300	13,300	13,300	13,300	13,300	13,300	13,300

TOTAL PRIMARY MILEAGE IN CHARLES CITY COUNTY AS OF JAN. 1, 1960 — 34.72 MI.

NEW KENT AND CHARLES CITY COUNTIES VIRGINIA

SHOWING
PRIMARY AND SECONDARY HIGHWAYS

SCALE OF MILES
0 1 2 3 4

NEW KENT COUNTY SEAT—NEW KENT
CHARLES CITY COUNTY SEAT—CHARLES CITY

PREPARED BY THE
DEPARTMENT OF HIGHWAYS
RICHMOND, VIRGINIA
JAN. 1, 1960

COMMONWEALTH of VIRGINIA



CHARLES CITY COUNTY
NEW KENT COUNTY

PRIMARY AND SECONDARY
HIGHWAY SYSTEMS

January 1, 1969

Department of Highways
Richmond, Virginia

District Engineer, P. O. Box 391, Petersburg, Va.
Resident Engineer, Sandston, Va.