

PREMIUM VIRGINIA WINES

30,000 GALLON BONDED WINERY IN WESTMORELAND COUNTY

P.O. BOX 1038 • OAK GROVE, VIRGINIA 22443-0838

May 29, 1984

Director
B.A.T.F., Department of Treasury
Washington, DC 20026

Dear Sir:

Ingleside Plantation, Inc., a Virginia Corporation, grape growers and interested persons of the Northern Neck of Virginia hereby petition the Bureau of Alcohol, Tobacco and Firearms to establish the area comprising the five counties of the Northern Neck of Virginia as a viticultural area to be known as the "George Washington Birthplace Viticultural Area".

You will find attached the following information in support of this petition:

- 1 Supportive signatures of grape growers, interested persons
- 2 Boundary description with maps
- 3 General nature of area
- 4 History of the "Northern Neck"
- 5 Soil types
- 6 Climate and rainfall

This document was prepared by the undersigned, largely gathering agricultural information from the U.S.D.A.'s Soil Survey of Westmoreland County and history from the Northern Neck Historical Society Magazine.

Yours very truly,

Carl F. Flemer, Jr., President

CFF: cjw

1A - SUPPORTIVE SIGNATURES OF GRAPE GROWERS

Mr. Gabriel Amirault Rt. 3, Box 704 King George, VA 22485

Mr. Ralph Ball Rt. 2, Box 773 Montross, VA 22520

Mr. Stewart Barber P.O. Box 61 Lottsburg, VA 22511

Mr. Jean Francois Calza Le Vignobles Rt. 2, Box 124-A Colonial Beach, VA 22443

Mr. Louis Calza Hill Farm Rt. 2, Box 145-A Colonial Beach, VA 22443

Mr. Douglas E. Flemer Ingleside Plantation Vineyards P.O. Box 1038 Oak Grove, VA 22443

Morland Vineyards P.O. Box 287 King George, VA 22485

Mr. Charles Geyer
Westmoreland Berry Farm
and Orchard
Box 1121
Oak Grove, VA 22443

Rolal J Ball

Stewart Barlen

Louis-Bane Calza

Douglas E. Flemer

Lincola Kosta

Anne F. Leger

1B - SUPPORTIVE SIGNATURES OF GRAPE GROWERS

Mr. John C. Hutt, Jr. P.O. Box 98
Montross, VA 22520

Mr. Thomas C. Iezzi Camillo Vineyards Rt. 2, Box 242 King George, VA 22485

Mr. William T. King Ivondale Vineyard P.O. Box 163 Warsaw, VA 22572

Mr. Jacques Recht La Jacquerie P.O. Box 1149 Oak Grove, VA 22443

Gen. W.A. Tidwell Tydeswall Vineyard Index, VA 22544

Mr. Dabney Wellford Sabine Hall Rt. 1, Box 631 Warsaw, VA 22572

Thomas C. Fezzi

William ! King

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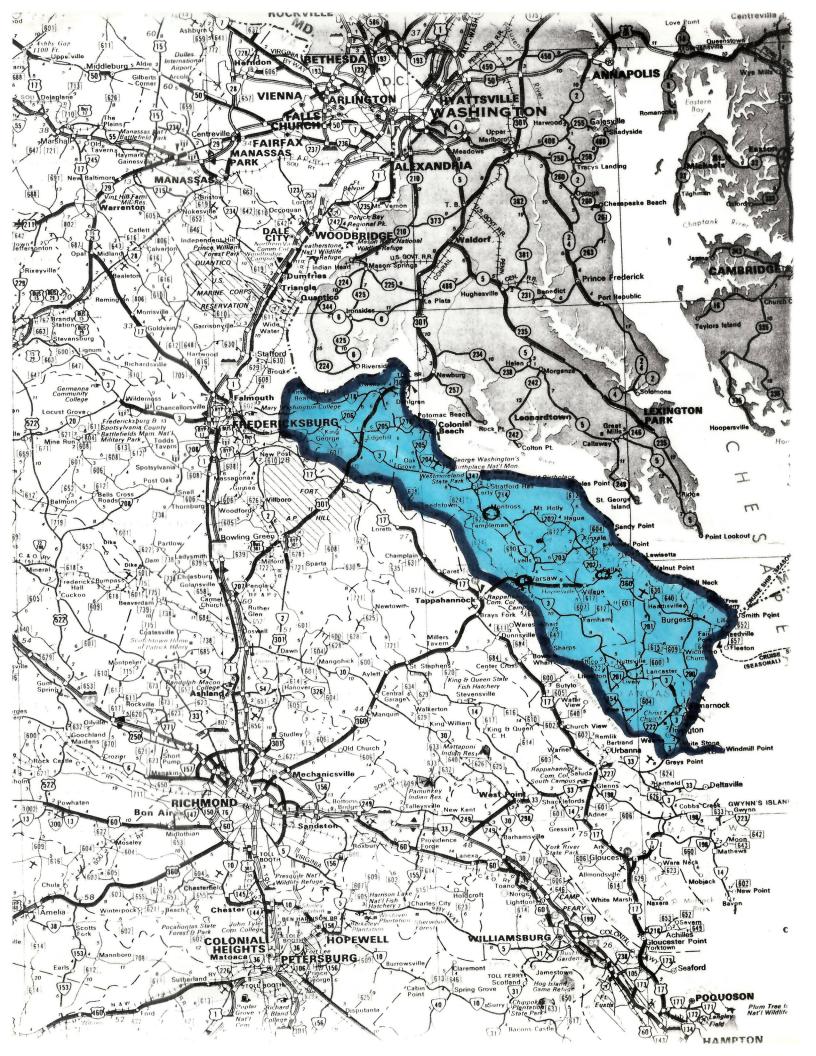
1C SUPPORTIVE SIGNATURES OF INTERESTED PERSONS	
Dumon 7. Dunton	Ammon G. Dunton, Jr. Verville, Merry Pt, VA
DCC www of the	Dexter C. Rumsey, III White Stone, VA 22578
CHEMIZ	Craig H. Smith White Stone, VA 22578
Who of	E.A. STEPHENS JR BOX 309 INVINGTON, VAZZY60
Richmond Country Board of Superv.	James T. Robertson Attorney-at-Law Montross, VA 22520
Liw, Letano	Lawrence Washington Latane, Jr Washington's Birthplace, VA 225
Buty R I Jones	Betty R. Horner, Chairman Westmoreland Co. Planning Comm Montross, VA 22520
Dan N. O. Williams	Ian R. D. Williams, Member Westmoreland Co. Bd. of Superv Montross, VA 22520
L. Morsey & dwards fr.	S. Dorsey Edwards Jr., Member Westmoreland Co.Bd. of Superv. Montross, VA 22520

9. ..

2 - BOUNDARY DESCRIPTION of proposed viticultural area

The proposed GEORGE WASHINGTON BIRTHPLACE VITICULTURAL AREA comprises the five counties of King George, Westmoreland, Richmond, Lancaster and Northumberland. This area is locally known as the Northern Neck of Tidewater Virginia. It is bounded on the North by the Potomac River, the East by the Chesapeake Bay, on the South by the Rappahannock River, and on the West by King George County western boundary line. The total area is approximately 922 square miles.





3 - GENERAL NATURE OF AREA

- The Northern Neck's five counties extend approximately 100 miles from the Chesapeake Bay westward to within a few miles of the city of Fredericksburg. The distance from north to south between the Potomac and Rappahannock Rivers varies from 10 to 20 miles, making the area a long narrow peninsula between the two tidal rivers.
- A ridge with elevations up to 190 feet extends generally through the center of King George and eastward through Westmoreland with sandy clay, well drained soil types. Other excellent agricultural soils are found along each of the rivers in what is generally called the river flats with excellent air drainage and a moderating climate influenced by the huge bodies of surrounding water.
- General agriculture predominates the farming communities with small grains, corn and soybeans the leading cash crops.
- Wine grape production since 1960 has been a growing factor throughout the Northern Neck with approximately 20 vineyards now in production or being planted.
- The bonded Ingleside Plantation Winery in Westmoreland County is the only winery in the Northern Neck area. 1984
 Virginia State Department of Agriculture records indicate
 Ingleside is Virginia's largest Farm Winery with a finished production of over 23,000 gallons in 1983.

4 - HISTORY

- No more history attaches to any small geographical area in this country than to that peninsula between the Rappahannock and Potomac Rivers known as the Northern Neck of Virginia. It may be truthfully said that this section was the birthplace of the nation (*). From Northumberland County Richard Lee founded the famous Lee Family of America; Lancaster County was the home of "King" Robert Carter of "Corotoman", also the Ball family which produced Mary Ball the Mother of Washington; Richmond County was the home of Landon Carter of "Sabine Hall" and John Tayloe of "Mt. Airy"; Westmoreland County the home of Thomas Lee of "Stratford Hall" and the birthplace of Richard Henry Lee, Francis Lightfoot Lee and Robert E. Lee. James Monroe and George Washington were born only a few miles apart in upper Westmoreland; King George produced James Madison. Throughout the Northern Neck these and many other great planter families lived, prospered and held positions of great influence and leadership in the formation of this Republic. For these reasons this region became known as the "Athens of America".
- John Washington, the immigrant, settled near Pope's Creek in Westmoreland County in 1656. He prospered, became the owner of between four and five thousand acres, was made Colonel in the Militia, was elected vestryman, justice and a member of the House of Burgesses. From this beginning the Washington family grew in prominence throughout the area for the next several hundred years. John Washington's great grandson, George, was born on the Pope's Creek farm on February 22, 1732, over 75 years after John's arrival in the Northern Neck.
- George Washington's Birthplace National Monument encompassing a portion of the original Pope's Creek farm, as well as the birthplace site, has been since 1932 open to the public and maintained by the park service under the supervision of the U.S. Department of the Interior.
- This land of the Northern Neck of Virginia as epitomized by this National Monument is widely and properly known and recognized as "The Birthplace of George Washington".

^(*) Northern Neck Historical Magazine (Foreword) Senator R.O. Norris

5 - SOIL TYPES

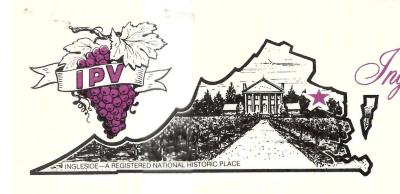
Great differences in soil types and soil properties do occur within short distances throughout the Northern Neck. In general the best agricultural soils are to be found in the sandy flat lands along the rivers, and in the sandy clay soils along the highest elevations of the ridge of land between the rivers. In both of these areas are found well drained soils which have excellent air drainage, are easily tilled, are rich in minerals, and are of excellent quality for wine grape production. These soils are considered by the U.S. Department of Agriculture to be prime farmland and are suitable for top production of food, feed, forage and fiber.

The parent material of the soils of the Northern Neck is transported material that was moved by marine and stream action, many thousands of years ago. The older soils are those of the uplands, while other types along the rivers are classified geologically as young soils.

6 - CLIMATE AND RAINFALL

- The climate of the Northern Neck is greatly influenced by the waters of the Chesapeake Bay and the Potomac and Rappahannock Rivers. The moderating effect of the surrounding waters places most of the Northern Neck in Zone 8 of the U.S. Department of Agriculture hardiness zone map.
- From temperatures recorded at Colonial Beach in the western part of the Northern Neck during the period 1963 to 1978, it is noted that the approximate average last frost date during the spring occurs about April 22nd. While the earliest average fall frost date is approximately October 26th. This gives an average of over 210 days of frost free growing season. For the counties to the east, this season is extended by a few days as one approaches the Chesapeake Bay.
- The average winter temperature is 38 degrees F, while the summer average is 77 degrees F. The lowest recorded temperature at Colonial Beach is 0 degrees which occurred January 18, 1977, while the hottest temperature of 100 degrees occurred July 3, 1966. Here again these cold temperatures moderate as we move east toward the Bay.
- The total average annual precipitation is 40 inches, which includes an average of 4 inches of snow for the area.
- The average relative humidity in mid-afternoon is 50 percent.

 Humidity is higher at night and the average at dawn is
 80 percent. The sun shines 70 percent of the time possible during the summer and 50 percent in the winter. The prevaling wind is from the south (*).
- In farmed areas soils are frozen only for short periods to a shallow depth each winter, while wooded or heavily sodded areas are rarely frozen.



PREMIUM VIRGINIA WINES 30,000 GALLON BONDED WINERY IN WESTMORELAND COUNTY

INGLESIDE PLANTATION, INC. P.O. BOX 1038 • OAK GROVE, VIRGINIA 22443-0838

August 10, 1984

Mr. Ed Reisman, A.T.F. Specialist Department of the Treasury Bureau of Alcohol, Tobacco & Firearms Washington, DC 20026

Dear Mr. Reisman:

I am enclosing the additional information which you have requested to further document our petition for establishing the Northern Neck as the George Washington Birthplace Viticultural Area.

I hope we have supplied sufficient evidence; however, if anything further is needed, please do not hesitate to call me.

Yours sincerely.

CARL F. FLEMER, JR. President

CFF: CWC

Enclosures

RECEIVED 8/15/84

A. EVIDENCE THAT THE NORTHERN NECK OF VIRGINIA IS KNOWN AS THE LAND AND BIRTHPLACE OF GEORGE WASHINGTON

George Washington was born in the Northern Neck in Westmoreland County, on Wakefield Plantation on February 22, 1732.

- Exhibit 1. David Eaton in his Atlas of Westmoreland County, published in 1942, states that George Washington was born on his father's farm "Wakefield Plantation" on February 22, 1732.
- Exhibit 2. Current brochures from George Washington Birthplace National Monument.
- Exhibit 3. H. Ragland Eubank in his 1934 Guidebook of the Northern Neck specifically states that the Historic Northern Neck of Virginia is the Land of George Washington. Further, he states that Mary Ball, the Mother of Washington, was closely identified and associated with each of the five Northern Neck Counties, having been born in Lancaster, lived in Northumberland, Westmoreland and King George, and owned property in Richmond County.
- Exhibit 4. The "Westmoreland Association" formed in the 1920's states in its foreword (page 3) that the Northern Neck is the Land of George Washington and Robert E. Lee. "From its four corners came the blood that flowed in their veins." On page 7 Paul Kester, the famous playwrite, states the "Westmoreland Association" means not only Westmoreland County but also those other counties "with which it has lived on such intimate and friendly terms."
- Exhibit 5. The Northern Neck Historical Society was established in 1950 to collect and preserve data peculiar to the region. Its organizational meeting and at least one annual meeting is held each year at the County Seat of Westmoreland, the Birthplace of George Washington.
- Exhibit 6. The Northern Neck News, published in Warsaw, Richmond County, is probably the most widely distributed and most widely read of all weekly newspapers of the Neck. It has and does consider itself to be serving the "Heart of Historyland" the Land and Birthplace of George Washington. Copy of August 2, 1984 grape industry article.

B. HISTORICAL AND CURRENT EVIDENCE THAT THE BOUNDARIES OF THE PROPOSED VITICULTURAL AREA ARE AS SPECIFIED IN THE PETITION

The Northern Neck of Tidewater Virginia is an elongated area lying between the tidewater Potomac and tidewater Rappahannock Rivers, extending from the Chesapeake Bay westward to the western boundary of King George County. Approximately at this western boundary of the Northern Neck, the climate begins to change from the gentle influence of the Chesapeake Bay, Potomac and Rappahannock Rivers to the more harsh influences of Piedmont, Virginia.

The Northern Neck is entirely within the Northern Coastal Plain with topography running into two general agricultural types called neckland and upland. Neckland, located along the river flats, is nearly level with elevations from 6 feet to about 50 feet above sea level. The upland is a gently sloping plateau along the center of the Northern Neck with elevations beginning at 50 feet and going to 190 feet in the western areas of Westmoreland and King George.

All of the parent material that has given rise to the soils of the Northern Neck is transported material that has been moved by marine and stream action. The soils have a wide range in age, the soils of the upland ridges are older and well developed while soils of the necklands are considered young soils.

Standing near the center of the Northern Neck in Westmoreland County is the George Washington Birthplace National Monument which stands as the historical center for the proposed George Washington Birthplace Viticultural Area.

Exhibit 7. Miriam Haynie states in her book, "Washington's Boyhood," that "every plantation had its fruit trees and grape arbors." and "wild grapes were made into wine."

Exhibit 8. J. Paul Hudson in his 1956 National Park Service Handbook shows examples of John Washington's wine bottle seals found at the Birthplace site.

Exhibit 9. Charles E. Hatch, Jr. in "Popes Creek Plantation" Birth-place of George Washington, 1979, shows examples of both John Washington's and Augustine Washington's wine bottle seals. Also on page 115 he writes of the abundance of wild grape vines and the importation of English vines.

Exhibit 10. The 1983 History of Westmoreland County shows other local wine bottle seals of the 17th and 18th Centuries indicating the widespread making and use of wines in the Northern Neck.

Exhibit 11. Agricultural census figures supplied by Sam Johnson, Westmoreland Agricultural Extension Agent, indicate that the Northern Neck counties have continuously since colonial days produced grapes for family table use and home wine making.

Total pounds harvested in 1910 - 59,601
" " " 1930 - 67,490
" " " 1940 - 75,414
" " 1950 - 34,007

C. EVIDENCE RELATING TO THE CLIMATIC AND GEOGRAPHICAL CHARACTERISTICS WHICH DISTINGUISH THE FIVE COUNTY NORTHERN NECK AS A SEPARATE VITICULTURAL AREA

Climatic features are the most prominent and compelling characteristics which distinguish the five county Northern Neck as a separate viticultural area. The climate of the proposed area is vastly influenced by the

Chesapeake Bay, the Potomac River and the Rappahannock River which indeed almost surround it. The moderating effect of these huge bodies of surrounding salt water are the chief reason we find native stands of longleaf pine (Pinus taeda), southern bayberry (Myrica cerifera) and other plants growing from King George County eastward to the Bay and do not find these varieties in native stands in any substancial degree to the west of King George in Stafford County. By contrast there are in Stafford County native stands of hemlock (Tsuga canadensis) which are not found anywhere in the Northern Neck counties. An interesting fact too, is that chipmunks (Tamias striatus) are native in Stafford County while, to the writer's knowledge, there has never been a chipmunk in the Northern Neck.

These examples indicate, perhaps in a most elementary but accurate way, where the invisible line between one climatic zone and another has been placed by nature. The climate of the five county Northern Neck is milder, its native plants more southern, its snowfall less severe, its frost-free days longer, its temperatures more even and moderate than the Piedmont plateau to the west, beginning with Stafford County.

Great differences in soil types and soil properties do occur within short distances throughout the Northern Neck. In general the best agricultural soils are to be found in the sandy flatlands along the rivers and in the sandy clay soils along the highest elevations of the ridge of land between the rivers. In both of these areas are found well-drained soils which have excellent air drainage, are easily tilled, are rich in minerals, and are of excellent quality for wine grape production. These soils are considered by the U.S. Department of Agriculture to be prime farmland and are suitable for top production of food, feed, forage and fiber.

The parent material of the soils of the Northern Neck is transported material that was moved by marine and stream action many thousands of years ago. The older soils are those of the uplands, while other types along the rivers are classified geologically as young soils.

The classification of the major agricultural soils of the Northern Neck by the U.S. Department of Agriculture as being prime farmland, combined with a mild climate, a short but freezing winter season, a 40-inch average yearly rainfall, and a generally dry, sunny grape ripening and harvest time make for an ideal growing situation for wine grapes, expecially the vinifera varieties grafted on American rootstocks which may be doubtfully winter-hardy throughout western Virginia and the Northeast United States.

D. BOUNDARY DESCRIPTION OF PROPOSED AREA

The appropriate maps for determining the boundaries of the proposed George Washington Birthplace Viticultural Area are two U.S.G.S. Maps titled Richmond NJ18-7, 1:250,000 minutes series and Washington NJ18-4, 1:250,000 minute series.

The proposed George Washington Viticultural Area is located in the Northern Neck of Tidewater Virginia and includes the entire counties of King George, Westmoreland, Richmond, Lancaster and Northumberland encompassing a total of 920 square miles. The area is bounded on the north by Potomac

Creek and the Potomac River, on the east by the Chesapeake Bay, on the south by the Rappahannock River and on the west by the King George County western boundary line.

Specific boundaries are as follows: Beginning at a point on Potomac Creek where the King George western boundary line at its northern most point intersects Potomac Creek, thence easterly along the Potomac Creek shoreline approximately 3 miles to the Potomac River, thence easterly and southeasterly along the Virginia shoreline of the Potomac River for approximately 66 air miles to Smith Point on the Chesapeake Bay, thence southerly along the shoreline of the Chesapeake Bay for approximately 20 air miles to Windmill Point at the mouth of the Rappahannock River, thence northeasterly along the north shore of the Rappahannock River approximately 72 air miles to Muddy Creek at the point where the western boundary line of King George County at its southernmost point begins, thence northward along the King George-Stafford County line approximately 7 air miles to the point of the beginning.

E. MAP OF THE NORTHERN NECK SHOWING EXISTING AND PROPOSED VINEYARDS AND WINERIES

Exhibit 12. Located on this map are 16 established and 1 proposed vineyard with 92.5 acres planted at this date in vinifera and French-American hybrid grapes. There is considerable interest in establishing other vineyards, see Exhibit 6 in which the August 2, 1984 Northern Neck News article notes the strong local interest in grape production. There is one bonded winery in Westmoreland County and one proposed for King George County.

ATLAS

OF

WESTMOREIAND COUNTY VIRGINIA



PATENTS

SHOWING HOW LANDS WERE PATENTED FROM THE CROWN & PROPRIETORS
OF THE NORTHERN NECK OF VIRGINIA, INCLUDING SOME HISTORY
OF THE PATENTEES, INDIANS, CHURCH & STATE, PARISHES,
MINISTERS, PROMINENT MEN, SURVEYS, PORTRAITS,
MAPS, AIRPLANE VIEWS & OTHER DATA

"We are a bundle of our ancestors."—EMERSON.

BY

DAVID W. EATON OAK GROVE, VA.

THE DIETZ PRESS, RICHMOND, VA.

1942



George Washington

of Virginia

First President of the United States

Boen at Wakefield Tebenary 22, 1732 Died at At. Vernon December 14, 1700 Age 07 Tears

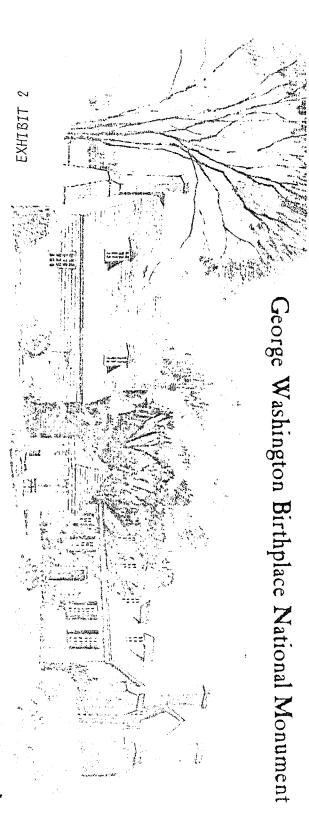
A CONTRACTOR

George Washington was born on his father's farm, Wakefield Plantation, February 11, 1731, Old Style; or, February 22, 1732, the present style. Here George lived until 1736 when his father moved to Mt. Vernon. Augustine Washington then moved to "Ferry Farm" on the Rappahannock river in King George, now Stafford county. Here he died in 1743, and was buried on Wakefield Plantation. George spent the Winters of 1745 to 1747 with his half-brother Augustine (called Austin, to distinguish him from his father). Here he went to school to a noted teacher, Henry Williams, at Church Point. George studied surveying, and

the only leaf of his note books left shows a practice-survey made from Mattox creek to the "Digwood" swamp, published in *History of the George Washington Bicentennial Gelebration*, Vol. I, p. 387, Plate 8, which may be seen at Birthplace of George Washington. This plat shows that he had attained considerable skill in mapping. He then went to school in Fredericksburg where he was instructed by noted teachers.

"After coming back from the school kept by Williams in Westmoreland County, Washington attended the Rev. James Marye school."—(See Moncure D. Conway.)





Washington's Birthplace, VA

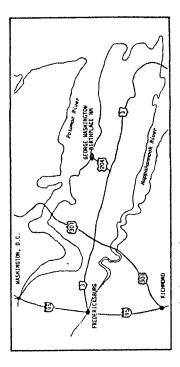
George Washington was born on his father's Popes Creek tobacco farm on February 22, 1732. He lived here until he was 3½ and again for several years in his teens. Today, a Memorial House stands near the site of the original home, which burned down in 1779. Here, the National Park Services operates a colonial farm re-creating the sights, sounds and smells of 18th-Century plantation life — a life that influenced the character and development of the young Virginian who became the first president of the United States.

Daily Activity Schedule

- VISITOR CENTER—"A Childhood Place," a 14-minute film on life at Popes Greek, shown every half-hour. Exhibits on colonial artifacts and Washington family history.
- MEMORIAL HOUSE—Tour of Memorial House and Kitchen leaves kitchen every half-hour.
- WEAVING ROOM—Demonstrations of spinning and weaving, as staffing permits.
- FARM WORKSHOP—Demonstration and discussion of plantation crafts. such as woodworking, blacksmithing and leatherworking.
 - COLONIAL FARM—Weekly chores of plowing, hoeing, planting, harvesting and weeding are done as the need arises. Ox-driving demonstrations as staffing permits.

Visiting the Park

George Washington Birthplace National Monument is located on Popes Creek off the Potomac River 61 kilometers (38 miles) east of Fredericksburg, Virginia, and is accessible over Virginia Route 3 and Soute 204. The park is open daily 9:00 AM - 5:00 PM, closed only December 25 and January 1. Admission is free. Groups should call (804-224-0196) or write the park to advise the staff of your visit-date, time, and number in group. A picnic area is available, as well as several picnic tables located at the park's Visitor Center. No refreshments, except snack and soda machines. Disabled visitors will find the Visitor Center completely accessible; transportation is provided for those unable to walk the 300 yards to the historic area. Allow 2 hours for a leisurely visit.



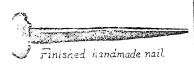
Administration

Gcorge Washington Birthplace National Monument is administered by the National Park Service, U.S. Department of the Interior. A Superintendent whose address is RR1, Box 717, Washington's Birthplace, Virginia 22575, is in immediate charge.

Talendar of Activities

leorge Washington Birthplace National Monument

Summer 1984



MAY

SUNDAY, 6th -May Day -Join the staff in celebrating the coming of spring. Sheep Shearing in the farm, 1:30 and 3:00 p.m. Spinet music at the House. 2:30 to 4:30.

SUNDAY, 13th, 20th & 27th --Sheep Shearing -Demonstrations using hand shears in the farm, 1:30 and 3:00 p.m.



"Hand", of tobacco

JUNE

SUNDAY, 10th - Herb Garden Tour - Examine the use of herbs in the 18th century, in the herb garden. 2:00 p.m.

SATURDAY AND SUNDAY, 16 and 17th - Blacksmithing and Coopering - Craft demonstrations in the farm workshop. 9:30 to 11:30 a.m. and 1:30 to 3:30 p.m.

SATURDAY, 30th - July 4th Weekend - Celeberate independence on an 18th century plantation. Free ox cart rides to all children who pull a handful of flax in the farm. Candlemaking demonstrations in the kitchen, and blacksmithing in the farm workshop. 10:00 a.m. to 12:00 p.m. and 2:00 to 4:00 p.m.



JULY

SUNDAY, 1st - July 4th Weekend - See June 30th listing for description and times.

WEDNESDAY, 4th - Independence Day - Join us for a lively musical celebration of the Fourth. Singing, musical instruments, and colonial dancing. On the front lawn of the house, 5:00 to 7:00 p.m.

SATURDAY, 7th - Afro-Heritage History Day - Come join us for 18th century Black music, songs, and dancing in the historic area. 10:00 a.m. to 4:30 p.m.

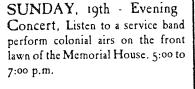
SUNDAY, 8th - Herb Garden Tour - Examine the use of herbs in the 18th century, in the herb garden. 2:00 p.m.

SATURDAY, 14th - Craft Day

- Come see a variety of colonial crafts as demonstrated by the staff and numerous private craftsmen. Candlemaking in the kitchen, spinning and weaving in the spinning room, and blacksmithing and coopering in the farm workshop. Other craft demonstrations throughout the historic area. 10:00 a.m. to 4:30 p.m.

SATURDAY, 28th - Musical -Various 18th century tunes played in the Memorial House. 2:00 to 4:30 p.m.

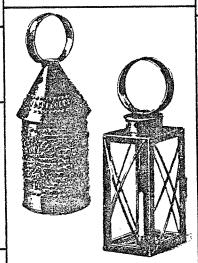
SUNDAY. 29th - Digging For Washington - Join the park's archaeologist for an explanation and walk pointing out the excavations done at George's home. 2:00 p.m. at the house site.



SUNDAY, 12th Spinet Music - 18th century airs played in the Memorial House. 2:00 to 4:30 p.m.



SEPTEMBER



SATURDAY, 1st - Musical -Colonial songs and spinet music performed in the Memorial House, 2:00 to 4:30 p.m.

SUNDAY, 2nd - Children's Day at the Birthplace - Bring the family down for a fun day. Children's games in the house area, carding and spinning wool at the spinning room, and free ox cart rides. 10:00 a.m. to 12:00 p.m. and 2:00 to 4:00 p.m.

AUGUST

SUNDAY, 5th - Herb Garden Tour - Examine the use of herbs in the 18th century, in the herb garden. 2:00 p.m. MONDAY, 3rd - Labor Day -Say goodbye to summer at the birthplace. Blacksmithing in the farm workshop and fireplace cooking demonstrations at the kitchen. 10:00 to 11:30 a.m. and 1:30 to 4:30 p.m.

Mt ...

THE LAND OF GEORGE WASHINGTON AND ROBERT E. LEE



FROM the portals of its stately homes it sent its sons to lay the foundations of a free Government.

Again and again from cot and manor they have gone forth to make the bounds of Freedom wider yet.

Courage and courtesy have ever marked their conduct; Fidelity to duty has been their guiding star."

B B B

THE WESTMORELAND ASSOCIATION
INCORPORATED

MONTROSS, VIRGINIA

FOREWORD



HE WESTMORELAND ASSOCIATION has been called into being to obtain and to disseminate authentic information of general interest relating to the region of Virginia lying between the upper and lower waters of the Potomac and Rappahannock Rivers, the city of Fredericksburg and the neighboring counties which border

on the Rappahannock.

It is the land of George Washington and Robert E. Lee. From its four corners came the blood that flowed in their veins. Throughout its confines each went in his youth. From its borders each set forth to his life's work.

It is the land of George Mason and George William Fairfax; of Madison and Monroe; of Marshall and Hugh Mercer and Geo. Weedon; of Paul Jones and Mathew Maury; of Richard Henry Lee and his illustrious brothers and of "Light Horse" Harry Lee.

It is the land of Robert Carter and Joseph Ball; of John Washington and Richard Lee; of Thomas Marshall and William Monroe, prodigious progenitors, whose descendants have ever stood for the rights of man and ordered liberty in the law.

It is a kindly land. John Smith cruising its waterways in 1608 said, "The verdue of the earth in most places doth manifestly prove the soyle to be lusty and very rich."

It is a land of infinite variety of fertile valleys and wooded hills; of rolling uplands and undulating plains and lush meadows; of sweet springs and gurgling brooks; of soft flowing broad placid rivers and great tidal inlets and the smell of salt sea. It has ever been the greatest home region of America. The precepts and examples of its Mary Washington, of Epping Forest, and its Ann Carter Lee, of Corrotoman, have served to keep its home fires burning.

From the men of this region, led by the descendants of Cavaliers of old England, the resolve to be free from British oppression came and was accomplished.

Here the great republic was conceived and fostered and fashioned into being. It is the greatest birthplace on earth. It is hallowed ground.

BY - PAUL KESTER

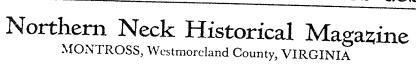
Again, when that group of intrepid patriots met at Leedstown in February, 1766, and formed that earlier Westmoreland Association, which was, I believe, the first organized challenge to English power to which responsible men in considerable numbers dared affix their signatures, it was not alone the men of Westmoreland who signed it, not alone Richard Henry Lee and his brothers, and the Washingtons, but Thompson Mason, of Loudoun; the Mountjoys, of Stafford and King George; William Bronaugh, of Fairfax; John Ballandine and William Grason, of Prince William, and William Ball, of Lancaster. The hundred and fourteen signatures represented a region, and not a single county.

It will be evident then that The Westmoreland Association of today means not only Westmoreland County, but those counties with which it lives in the present as it has lived in the past, on such intimate and friendly terms.

History has dealt very fully with the towering figures who first saw the light of day on this long richly wooded peninsula, which lies between the two broad tidal rivers, the Potomac and the Rappahannock. It would seem little more can be learned of Washington, Madison, Monroe, Richard Henry Lee and Robert E. Lee, yet historians are constantly making pilgrimages to this region, if not with the hope of finding new material, then with the purpose of securing a better understanding of these great men by a more intimate acquaintance with the environment in which they were born.

After visiting Gunston Hall, the home of George Mason, author of the Virginia Bill of Rights, and of the first Constitution of Virginia, and one of the framers of the Constitution of the United States, Lord Balfour told his friend, Mr. J. P. Morgan, that the old Hall and its surroundings had enabled him to understand the great planter statesmen of the Revolutionary era as he had never understood them before.

Who can really pretend to a knowledge of the character of Washington who is not in some measure familiar with the land in which his character was developed? It is easy to read of Washington, but to know him one must have spent hours at Mount Vernon and Wakefield and the Ferry Farm, and must know the streets of Fredericksburg, which he trod as a boy and through which he rode as a



VOL. I

DECEMBER 1951

NO. 1

FOREWORD

by Robert O. Norris, Jr., President of the Northern Neck Historical Society

No more history attaches to any relatively small geographical unit in the country than to that peninsula lying between the Rappahannock and Potomac Rivers and between the Chesapeake Bay and the foothills of the Blue Ridge Mountains. It may be truthfully said that this section was the birthplace of the nation for the reason that so many of the most illustrious characters of the heroic age of our country's history were born and spent the greater part of their early lives here. In the County of Westmoreland which lies in this region was born George Washington who, after having taken the leading part in securing our independence, assumed leadership in the formation of our Federal Constitution and became our first president. In the same county were born Richard Henry Lee and Francis Lightfoot Lee, two of the signers of the Declaration of Independence; James Monroe, fifth president of the United States and author of the Monroe Doctrine, and Robert E. Lee, the greatest military strategist our nation has produced and an ardent believer in the doctrine of States Rights and local self-government. Richard Henry Lee introduced in the Continental Congress at Philadelphia the resolution directing that a committee be appointed for the purpose of drafting and presenting a suitable Declaration of Independence. In the adjoining County of King George was born James Madison who, because of his

familiarity with the philosophy of the Republican Theory of Government and his erudition as a student, as a member of the Constitutional Convention of 1787, became known as the "Father of the Federal Constitution." In the present County of Fauquier, also in this section, was born Chief Justice John Marshall, the great interpreter of the Federal Constitution, who did more than any other single person to weld the several states of this union into a nation. Here also were born a considerable number of other persons who were identified in an outstanding manner with the achievement of independence and the formation of the Republic or who held positions of great leadership in colonial affairs. Among these latter should be mentioned Colonel Robert Carter of Lancaster County, known as "King Carter;" Richard Lee of Northumberland, founder of the distinguished Lee Family of America; William Fitzhugh of Stafford; Thomas Lee of Westmoreland, and George Mason of Stafford County, author of the Bill of Rights, which has been written into the Federal Constitution and the Constitutions of most of the states of the Union.

It is interesting to note that all of these historic personages, except Richard Lee and William Fitzhugh who came to Virginia from England, were descendants of families, nearly all of whom had lived in the Northern Neck for generations. Mary Ball Washington, the mother of George Washington, was a member of the well known Ball Family which had been in Lancaster County for several generations and his father, Augustine Washington, was a scion of a family which had lived in Westmoreland County for several generations. In the days preceding and during the Revolutionary period the great planter families along the Rappahannock and Potomac Rivers were accustomed to send their sons to England to be educated, and in the course of time created a civilization of great culture and learning, which had as its prime interest the philosophy of enlightened government, and it was for this reason that this region became known to some as the "Athens of America." The result was that there came about a conception of political equality and democracy among all the people of the Northern Neck which has persisted to this day and is a characteristic of these people. While many of them were not in a financial position to educate their sons at foreign universities, by keeping themselves informed through reading and study in the splendid libraries that adorned many of the homes of this section and by contact with the leaders, there came about a very fine understanding of and admiration for enlightened self-government through a representative democracy which permeated the entire population and which resulted in their great contribution to the successful formation of the Republic.

A great part of the Northern Neck of Virginia was for many years an isolated section, particularly the eastern portion. To this day no railroad runs through the four eastern counties. However, its natural beauty, its history, its excellent roads and bridges have in recent years brought this region to the attention of the outside world and many cultured and enlightened people have settled within its limits and have contributed their share to the outlook and perspective of the present generation. The stranger who comes into the Northern Neck from the south over the Downing Bridge at Tappahannock, or the Port Royal Bridge, from the east by way of its ferry connections, from the north by way of the Potomac bridge, or from the west by state highway number three from Fredericksburg cannot help being greatly impressed with its rolling landscape, its good highways, its excellent farm lands, its magnificent vistas, its fine old colonial homes and churches, its history and its people.

It is but natural that those people of the Northern Neck to whom history appealed and who knew something about the history of the section should reach the conclusion that there should be formed the "Northern Neck Historical Society" with the purpose of collecting and preserving historical data peculiar to the region and the publication of a magazine disseminating such information. The result was that a number of interested persons, including the present President of the Society, met at Montross and issued a call for an organization meeting to be held at Montross in Westmoreland County in October, 1950. The response was much greater than was expected and on the date named a large number of people met in the Museum Building at the county seat of Westmoreland County and adopted a Constitution and By-laws which are printed in this issue of the magazine and elected officers and members of the necessary committees. The Society now has nearly four hundred members, several of whom are life members. It is proposed to issue a magazine annually, known as the "Northern Neck Historical Magazine," containing articles with reference to the history of the section so that they may be preserved for all time. The President on the part of the Society desires to express his great appreciation of the interest that has been manifested in this work and to say that the Society will welcome members from any part of the country and appeals to people everywhere who are

Washington's Boyhood

By

MARIAM HAYNIE



ILLUSTRATIONS

By

SIDNEY E. KING

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very plantation had its fruit trees and grape abors. Fresh fruits were enjoyed in season, and they were also preserved in various ways for winter use.

Apples were cored, peeled in spirals and hung in the sun to dry, made into jelly or cider. Jelly, preserves and wine were made from grapes, and peaches were used for preserves, pickle and brandy. Nothing was wasted, even wild fruits were preserved in various ways -- wild cherries and wild grapes were made into wine and persimmon were made into beer or brandy. (Persimmon beer especially was enjoyed quarters.) Each plantation mistress had her secret recipes "handed down" in the family from generation to generation.

Drinking toasts at dinner was a customary plantation rithual. Lime punch and Madeira were often used for toast drinking, as well as the wine, cider, and brandy made on the plantation. 194

As evidence of the gracious living of colonial times, at Ferry Farm there were — seven rundletts, which held eighteen gallons of wine each, as well as a large cooler, five small coolers and a decanter. 195

^{194.} Fithian. Journal, pp. 72, 38, 185, 186, 251.

^{195.} King George County, Inventories (Book 1) 1721-174.

GEORGE WASHINGTON BIRTHPLACE

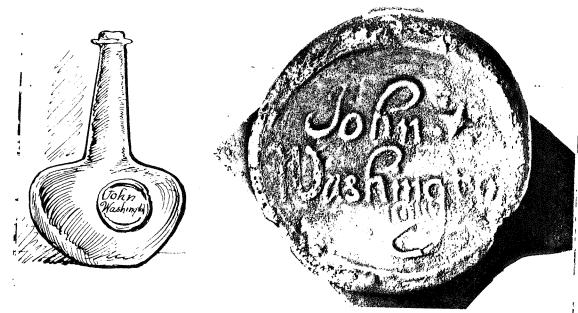
National Monument Virginia

by J. Paul Hudson



NATIONAL PARK SERVICE HISTORICAL HANDBOOK SERIES No. 26 Washington, D. C., 1956

(Reprint 1961)



Wine bottle seal found near homesite of John Washington, and drawing of a bottle of the period.

place was forgotten for so many years that knowledge of the exact location and use of many of the plantation buildings became lost.

The third and last period of the story covers the years when the Federal Government, various individuals, and patriotic organizations became interested in preserving the historic site; a period culminating in the preservation of the ancient plantation by the Wakefield National Memorial Association and the United States Government.

John Washington

In late 1656, or early 1657, John Washington, about 24 years old, arrived in the Potomac River in Westmoreland County, Va., as mate of the Ketch, *Sea Horse of London*. Owing to a disagreement with the owner and captain of the vessel, Edward Prescott, John decided to remain in Virginia.

Of John's early history little is known. He was born in England about 1632, son of the Reverend Lawrence Washington (M.A., B.D., Fellow of Brasenose College, Oxford, Rector of Purleigh, Essex) and Amphillis Twigden of Northamptonshire. In November 1640, Charles I presented John with a "scholar's place" at Sutton Hospital (Charterhouse School), but owing to a long waiting list he did not receive an appointment and appears to have been educated elsewhere.

A year or two after his arrival in Virginia, John married Anne Pope and, in 1659, was given land on Mattox Creek by his father-in-law, Col. Nathaniel Pope. Here their first son, Lawrence (George's

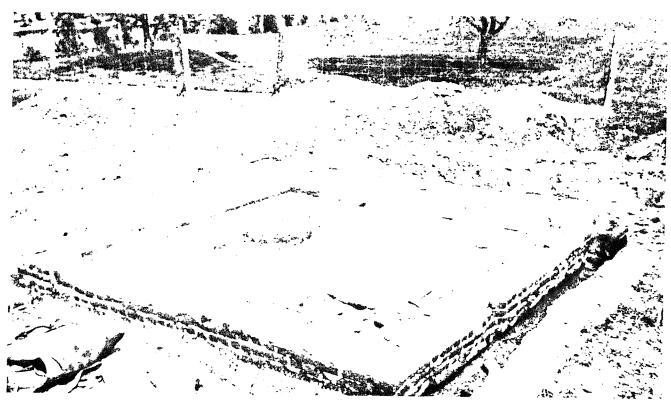
Popes Creek Plantation Birthplace of George Washington by Charles E. Hatch, Jr.

Addendum by Brooke S. Blades Edited by George C. Mackenzie

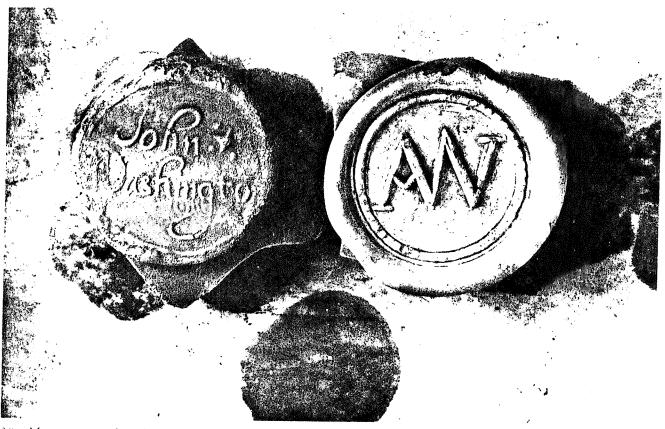
Published by The Wakefield National Memorial Association In cooperation with the National Park Service United States Department of the Interior

George Washington Birthplace National Monument Washington's Birthplace, VA 22575

ISBN 0-934146-00-4 Library of Congress Catalog Card Number 79-63853 Printed in the United States of America 1979



19. These foundations, excavated in 1934, are those of a dependency-possibly the smokehouse of the Popes Creek Plantation.



20. Monograms, such as these for wine bottles, were found during archeological investigations near the home sites of John and Augustine Washington.

much better (I think) than in England; though the mait-trees soon decay, yet they are soon raised to creat perfection."95

Pears also were, or came to be, common. In Liver's day there were "some sorts of Pears, but very few Plantations; I have seen the Bergamy, arden, and two or three other sorts, and these are fair, large and pleasant as they are in England." However, other varieties were introduced and they became much more common. Byrd could list sagar pears" (two sorts), "bergamot" (three spees, "all good"), "warden" (which ripened early), Summer Bon Chretien" (three varieties), "eggcaped" (two species), "Winter Bon Chretien" ("it came from the Island : Madeira"), musk and others. John Oldmixon arote, in his account issued in 1741, that "They have had such extraordinary Success with Aples and Pears, that there's never a Planter but as an Orchard, and makes Large Quantities of order and Perry, which is some of their common Drinks."96

Glover noted that "here are likewise Apricock, and some sorts of English Plums, but these do not upen so kindly as they do in England." On the same subject Byrd commented: "There are two species of plums, not counting the ones, namely the white and the black, which were sent from Europe." "Apricot trees grow very tall and thick here." He identified but two species. 97

Glover reported "great store of quinces" and onsequently "Quince-drink." They were "longer and fairer than those of *England*, and not so harsh in taste." Byrd had found six varieties, "namely, Indian, Spanish, Portuguese, Italian, Barbary, and Brunswickian, which are all sweet and good either raw or cooked." As for currants Glover saw none of the English varieties; however, a half-century later Byrd made a different observation. "One has different varieties of currants, from England as well as from other lands. [They are the] black, white and red varieties, and are all very good in taste."

By 1737 "Pomegranates are also found at the home of the fanciers and they have become exceptionally beautiful and good in this land." Figs, nowever, were more well-entrenched. Byrd reported that "One may find here two species of fig they. One is low and bears a good fruit, which is very large. The other grows tall and thick, gives a beautiful shade, and bears abundantly." Earlier

Glover had found that in Virginia they "grow as good Figgs as they do in Spain." ¹⁰⁰

There were other fruits, too, of a native kind that grew well. It is doubtful that they were orchard or garden stock; however, likely they were part of most plantation scenes and available for use. Fruit bearing mulberries were most common, the native red and the imported white, likely too some of the black variety. Byrd wrote that "Mulberry trees grow everywhere of themselves and the uncultivated [ones] are the best in the country." Those sent from Europe, "however do not yield such good berries or such fine foliage as the Indian [red ones]."¹⁰¹

Then there was the persimmon, new to the English, who tried hard to identify it as a plum. Beverley wrote that "These, like most other Fruits there, grow as thick upon the Trees, as Ropes of Onions; the Branches very often break down by the mighty Weight of the Fruit." Hugh Jones added, "Some planters, etc., make good small drink with cakes of parsimmons a kind of plumbs, which grow there in great plenty." Beverley, also, noted the use of persimmons to make a kind of beer. 102

There were grapes, too, with great "abundance of vines in the woods," but little to indicate that they were cultivated extensively in planters' gardens and orchards as a general rule. This was particularly true after the flush of effort to produce wine of native origin in the early days of the Virginia colony. This was an unfruitful effort much after the manner of, but more easily discouraged than, sericulture. At one stage the two were linked and English vines were brought to the Colony as the white mulberry had been. ¹⁰³

Though not a cultivated plant, there was one that should be mentioned here. It was the "Myrtle," and its berries were put to general use in candle-making, as both Beverley and Byrd detail. In the words of the latter:

One has two species of *myrtle berries*, the ones somewhat larger than the others. They grow on small bushes, and are green all year long. From the fruit one makes the most beautiful, best and finest wax in the whole world, which is as green and as transparent as crystal. It is made in the following manner: namely, one takes the berries, when they are ripe, and cooks them in water until they are completely

Westmoreland County Virginia

1653-1983

Edited by Walter Biscoe Norris Jr.

Westmoreland County Board of Supervisors Montross, Virginia 1983

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110 Westmoreland County, Virginia - 1653-1983

Westmoreland County Orders: 129, 130.

16 J.F. Dorman: Westmoreland County Orders 1694-1698: 67.

Westmoreland County Orders 1698-1705: 98.

Westmoreland County Deeds #5: 10, 11.

Elizabeth Hardidge Ashton's tombstone on Nomini Plantation.

Henry Ashton Ibid.

Frances Ashton: Third Henry Ashton *Ibid*.
Frances Ashton: *Ibid*.

21 Westmoreland County Deeds #8 (Part 1): 130.
22 Westmoreland County Records and Inventories 1723-1764: 110.
23 George Washington, *Diaries 1748-1799*.
24 Westmoreland County Deeds #16: 35, 36, 37, 38, 59.
25 Westmoreland Land Tax Rolls - 1818 to 1841.
26 Westmoreland Land Tax - 1854.
27 Westmoreland Land Tax - 1882.
28 Westmoreland County Deeds #52: 128.
29 Westmoreland County Deeds #35:656, 657.



Glass wine bottle seals found at Nomini Plantation. Traced by Janet Curts.

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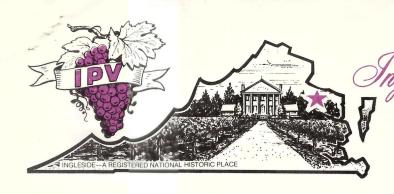
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PROPOSED - GEORGE WASHINGTON BIRTHPLACE VITICULTURAL AREA ESTABLISHED AND PROPOSED VINEYARDS - @ , BONDED WINERY - A , AUG. 6,1984



30,000 GALLON BONDED WINERY IN WESTMORELAND COUNTY

INGLESIDE PLANTATION, INC.
P.O. BOX 1038 • OAK GROVE, VIRGINIA 22443-0838

October 22, 1984

Mr. Ed Reisman, A.T.F. Specialist Department of the Treasury Bureau of Alcohol, Tobacco & Firearms Washington, DC 20026

Dear Mr. Reisman:

I have received from Mr. Sam Johnson, our county agent, the climatological summary reports for our area and the two adjacent areas to the west Louisa County and Orange County.

There are significant differences of which I have underlined several on the copies I am enclosing for you.

First of all there is a most significant difference to topography and elevation ranging from our near sea level flat land to the rolling almost mountainous thousand foot elevations in the western portions of Louisa County.

Secondly I am certain that the climate of our area, bordering on the Chesapeake Bay and the salty tidal Potomac and Rappahannock Rivers is vastly affected by the salt water. By contrast the reports also speak of large open bodies of water in or near Louisa and Orange affecting the climate. I do not know how the bay and the large tidal rivers can have much influence on the areas to the west of us as they do on this immediate five county area.

Climatologists claim that if the earth's atmospheric temperatures would move down a degree or up a degree it would cause the difference between new glacieral age or a new tropical age. The more than a few degrees difference between our tidewater counties and the piedmont counties makes it apparent that we should be divided into two separate climatic zones.

As we suggested in our petition the division line is really an invisible line. No one can say exactly where such a line should be placed. The best measure of this is to observe where nature has decreed the plants, animals, birds and reptiles, through timeless ages, may thrive or die. For the purpose of this petition, the most reasonable location for this climatic division line is the western boundary of King George County.

Mr. Ed Reisman October 22, 1984 Page 2

It will take only a few consecutive sub-zero days to kill or greatly harm grafted vinifera vines. The report notes that we very seldom have sub-zero days in our lower tidewater area. Late spring frost dates are important in grape production; a few days will make a vast difference. April 15 appears to be our last average frost date, while April 17 to 24 are frost dates to the west of us. Our frost free growing season averages 194 days, while to the west it varies from 173 to 189 days.

If you desire further information please do not hesitate to call me.

Yours sincerely,

Carl F. Flemer, Jr., President

CFF, Jr./maj

Enclosures

U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION,
IN COOPERATION WITH THE WATER RESOURCES FESEARCH CENTER AND THE RESEARCH
DIVISION OF VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

CLIMATOGRAPHY OF THE UNITED STATES NO. 20-44

LATITUDE 38°02'N LONGITUDE 78°00'W ELEV. (GROUND) 420 FT.

CLIMATOLOGICAL SUMMARY

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NARRATIVE CLIMATOLOGICAL SUMMARY

Plateau. The topography within the county is generally rolling with elevations ranging from 200 to 500 feet above sea level. The county seat is located in the town of Louise although the nearest large population and industrial centers are at Charlottesville, Fredericksburg, and Richmond.

The climate is modified continental with mild winters and warm and humid summers. The mountains to the west, Chasapeaks Bay, and the Atlantic Ocean are major factors controlling the climate in addition to the latitude and location on the North American continent. The mountains produce various steering, blocking, and modifying effects on storms and air masses. The large open bodies of water, which are slow in reacting to atmospheric changes, contribute to the humid summers and mild winters.

Mean annual temperatures at Louisa vary slightly from year to year but average 56 degrees, which is near the average of other nearby stations. Rather cool similar temperatures prevail during the cold season and rather warm similar temperatures prevail during the warm season with the spring and fall temperatures showing the upward and downward trends. May and September are usually warm, each having an average of a few days with the temperature greater than or equal to 90. Daytims highs during the cold season are usually in the upper 40's with nighttims lows in the upper 20's. Haximum temperatures in the upper 70's and minimum temperatures as low as -9 are the extremes during the winter season. Daytims highs during summer are usually in the upper 80's and nighttime lows in the low to middle 60's. Maximum temperatures up to 104 and minimum temperatures in the low 40's are the extremes during July and August.

The number of days with the temperature greater than or equal to 90 has ranged from 15 in 1967 up to 72 days in 1943. The maximum temperature is below freezing on an average of 7 days each year. The temperature falls below freezing 20 to 23 days a month during the winter months and reaches zero often enough to give a numerical average of 1 day for the year.

The growing season, defined as the period between the average date of the last freezing temperature in spring (April 24) and the average date of the first freezing temperature in fall (October 14), is 173 days. Freezing temperatures in spring have occurred as late as May 17 and as early in fall as September 21. This growing assemt is long enough to allow proper maturity of a large variety of crops. Since knowledge of critical temperatures near and below freezing is needed by various users, a separate table has been computed showing the probabilities of occurrence for different temperatures. Caution should be used in

applying these values to other locations in the county. Elevation, air drainage, soil characteristics, night radiation, and type of air mass are some of the factors controlling the minimum temperature, sometimes causing large differences in short distances.

Heating degree days (mean degree days) as shown in the above table are a measure of the departure of the average daily temperature from 65 degrees. When the average daily temperature is above 65, the degree day value for that day is zero. The usual practice is to accumulate daily totals starting July 1 through June 30. The accumulated degree days can be used as a measure of past temperature effect upon power and fuel consumption.

Precipitation is well distributed throughout the year with the maximum in July and August and the minimum in October and again in February. During this 30 year period, monthly amounts varied from less than & inch up to 16.33 inches during August 1969. The highest daily total of over11 inches occurred during the same month and was associated with the massage of hurricane Camille. Reinfall in summer is due mainly to showers and thundershowers. Nearly 40 days each year have thunderstorm activity which is about average for the state. In winter, some of the precipitation usually occurs as snow. The average is 20 inches a year but yearly amounts are extremely variable ranging from 3½ up to 46½ inches.

South to southwest winds predominate but with a secondary maximum frequency from a northerly direction in most months generally reflecting the progression of weather systems across the state. Relative humidity varies inversely with temperature being high in the morning and low in the afternoon. During the warm season average values are in the 80's early in the morning, dropping into the 50's in the afternoon. Cloudiness is least in fall averaging around five-tenths coverage, and greatest in winter, with over six-tenths coverage. Partly cloudy days are most frequent in summer with about 40% of the days in this category.

Hurricanes and other tropical disturbances occasionally move far enough inland to affect Louisa and the surrounding areas. They have generally lost their identity as hurricanes by this time, and the remaining low pressure centers usually produce heavy rains and occasionally strong winds. Tornadoes are local storms of short duration formed of wimes rotating at high speeds usually visible as a "funnel cloud." Tornadoes are infrequent in Louisa County with none officially documented during the last 55 years. Thundersto.ms, accompanied by severe lightning, high wind and heil, are much more frequent and produce the greatest amount of storm damage.

November 1971 Curtis W. Crockett

Curtis W. Crockett
NGAA Climatologist for Virginia
Agronomy Department, V.P.I. & S.U.
Blacksburg, Virginia 24061

PROBABILITY OF FREEZES OCCURRING AS LATE IN THE SPRING OR AS EARLY IN THE FALL AS DATES SHOWN IN THE FOLLOWING TABLE

PERCENT CHANCE					TEMPE	RATU	RE LEV	ELS				
OF LATER CATE	16	•	20),,	24	10	28	3	. 32	0	36	3°
IN SPRING 90	FEB	6	FEB		MAR		MAR	25	APR	8 18	APR	19
70	FEB	20	MAR	15	MAR		APR	10	APR	24	MAY	- 5
50 30	MAR	10	MAR	22	APR	3	APR	17	MAY	1	YAM	20
10	MAR	22	APR	1	APR	11	APR	26	MAY	10	DAT	2.
ERCENT CHANCE												
F EARLIER DATE												
N FALL 10	NOV	22	NOV	8	OCT	28	OCT	11	SEPT	29	SEPT	
30	NOV	29	NOV	17	NOA	4		20	OCT	8	OCT	-
50	DEC	5	NOV	23	NOV	10	NOV	27	OCT	21	OCT	1
70	DEC	10	NOA	29	NOV	22	NOV	11	OCT	29	OCT	18

STATION HISTORY

DATE	LOCATION	ELEVATION	OBSERVER
	(FROM POST OFFICE)	(FT. MSL)	
APRIL, 1916 - MARCH, 1941	8 MILES MINERAL	250	M. B. QUISENBERRY
MARCH, 1941 - NOV, 1970	O. 3 MILE NW	437	L. M. SIMS
NOV, 1970 - PRESENT	0.3 MILE E	420	R. D. GREEP

AVERAGE TEMPERATURE (°F)

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNL
لنسنبه	CONTRACTO				,				70 7	63.5	48.2	39.9	57.1
41	36.7	36.0	41.6	59.7	66.1	72.C	77.C	74.C	70.3	57.5	47.1	34.6	55.8
42	33.5	33.8	46.5	57.7	67.3	73.6	76.6	72.8	6F.0	56 • C	46.0		57.1
43	37.8	40.2	46.4	53.2	68.4	78.5	17.3	77.5	67.2	56.2	46.4	34.2	
44	37.9	19.7	42.9	55.3	70.7	75.3	76.8	74.5	69.3	56.9	49.4	31.7	57.1
45	32.9	40.2	56.7	59.3	42.9	74.0	75.1	73.9	72.3	70.7	77.7		•
47	2201								68.4	58.9	51.2	42.1	57.4
46	37.1	40.7	52.5	56.8	64.5	72.1	73.7	70.1		62.1	44.7	35.9	55.8
47	42.3	32.1	38.3	57.6	65.4	7C.6	73.5	77.4	68.9	54.0	50.4	40.0	56.0
46	29.8	38.2	49.5	51.3	64.2	72.9	76.4	73.6	66.1	60.9	47.7	40.7	58.2
44	44.5	45.0	46.5	54.7	65.0	73.7	78.7	75.2	66.7	59.5	46.6	34.4	56.6
50	48.9	39.4	43.6	53.8	64.9	72.5	74.9	73.9	00.7	24.7	70.0		
,,,						-		7. 1	69.C	60.5	43.5	40.4	57.0
51	39.6	39.8	46.1	55.9	64.4	72.5	77.0	75.1 75.1	67.3	54.8	47.9	37.8	57.3
52	41.5	4C. 9	45.3		04.5	76.7	78.6	76.7	69.3	54.5	46.9	40.3	58.5
53	41.2	42.7	47.1	55.8	76.9	73.6	76.5	75.6	72.4	61.0	43.6	36.1	57.3
54	37.4	43.3	46.2	61.0	61.8	72.7	76.1	75.4	68.0	58.3	44.7	33.5	56.4
55	34.5	38.9	49.3	59.3	\$6.4	68.4	79.4	13.4	50.0	,,,,			
						~~ .	75.7	74.3	45.9	58.5	46.6	47.5	56.8
56	34.1		45.5		65.3	72.4	76.9	73.5	65.8	52.2	48.C	40.4	56.9
57	34.7	42.0	46.1	59.9	66.1	73.6	77.9	73.5	66.9	55.8	48.6	31.4	54.2
58	33.0	31.5	40.9	56.3	64.3	70.5	76.C	77.8	65.7	60.0	46.0	40.3	57.5
59	34.5	39.7	45.4.		68.0	72.9	75.4	77.0	68.5	54.9	47.8	31.0	54.9
60	37.8	37.2	33.2	6C.1	62.5	71.8	1344	,,,,	1,000				
						71.8	76.1	75.1	71.6	57.3	48.5	35.6	55.4
61	29.3	39.4			60.6	71.3	73.9	73.1		58.9	44.1	32.2	54.4
62	33.5	36.6	42.4	55.1	48.0	71.6	75.1	74.2		58.9	49.6	30.1	55.2
63	33.4	31.8	50.7	57.2	64.1	73.7		73.4		53.1	49.7	41.3	56.3
64	36.B	35.6	47.3	54.0	66.8		15.0	75.0	69.9	54.1	47.8	41.5	54.3
6.5	35.3	39.1	43.1	54.9	68. q	70.4	1360	, , , , ,					
						72.2	74.6	75.0	65.8	54.7	47.6	. 35.7	54.8
44	30.8	35.6		52.3		71.2		73.5		55.0	43.4	39.6	55.0
67					59.4	73.0		76.3		58.4	49.1	36.2	55.8
. 68					61.3			72.6		55.7	44.7	33.7	54.8
65					65.6	73.3		75.6		60.3	48.7	38.9	56.5
70	30.l	37.3	42.0	55.4	67.0	1 2 4 3	1611	, ,					
					62.8	73.5	74.8	73.4	70.3	*.			
71	33.2	39.1	43.9	54.9	92.0	, 3. 3	.4.4			ye.			

TOTAL PRECIPITATION (INCHES)

-	-	-											
YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC ANN	L
							7.61	2.23	0.27	1.23	0.97	4.13 31.66	
41	2.37	0.70	1.72	4.16	1.03	5.24	8.32	8.25	3.27	7.35	1.62	3.62 51.19	
42	3.63	1.42	5.61	0.81	2.73	4.36	6.10	1.15	1.88		2.50	2.69 31.90	8
43	3.26	1.39	3.60	2.52	3.36	1.84	4.25	4.95	6.13	3.22	3.14	2.54 44.64	•
44	2.41	4.00	6.25	3.62	1.60	1.53		2.85		0.90	3.92	5.75 49.31	8
45	3.49	2.57	1.12	3.66	4.13	2.63	11.10	2.03					
4.5		-					7 22	4.27	2.67	2.30	1.88	2.66 44.3	5
46	2.23	2.94	5.28	2.46	7.16	3.10		3.02		1.66	5.96	C. 96 37.7	7
47	5.38	2.36	2.16	1.65	3.39	4.16	3.17	12.01	2.23	3.79	6.55	7.66 64.9	
46	4.64	.2.58	5.17	5,53	8.47	3.08	3.19	6.81	2.27	2.91	1.78	2.11 43.9	8
49	5.32	2.34	3.42	3-16	3.24	2.64	7.98	3.30	6.54	3.46	1.50	3.27 39.6	٥
50	2.20	2.83	3.91	1.53	4.78	1.41	4.47	3.30	0477	30.10			
	••••							2.47	2.71	1.16	5.69	4.78 39.6	6
51	1.49	2.74	3.56	4.15	1.47	8.10	1.34	5.18	3.85	1.37	6.91	2.37 48.3	2
52	5.31	1.98	5.36	5.35	5.84	3.27	1.53	0.57	1.75	3.43	1.14	4.19 32.1	3
53	2.34	2.21	5.41	3.49	3.23	3.08	1.29	3.30	C. 47	4.70	2.24	3.73 36.7	2
54	3.42	1.69	3.65	2.49	4.58	2.63	3.12	13.12	2.56	2.11	1.53	C.57 40.5	0
55		3,50	3.84	3.48	2.90	2.79	4.85	13.14	3.70				
	••••								6.36	4.65	4.02	3.08 42.3	9
56	1.28	3.93	2.32	2.54	0.79	2.41		3.34	4.64	4,43	4.51	5.13 44.7	8
57	3.05	4.44	2.03	4. E6	2.26	4.74	1.33	6.52	2.46	2.98	1.75	3.67 45.6	5
śä	3.77	3.88	5.93	3.28	2.19	4.39	4.83	3.87	1.32	3.56	3.13	2.81 40.0	1
59	2.30	1.30	2.90	4.01	2.53	4.16		3.91	5.19	2.23	1.29	2.20 43.2	7
60	2.64	5.44	3.43	2.97	4.21	2.60	4.16	3.71	3.17	2425			
							* ^^	4.69	2.45	8.08	1.78	4.58 50.2	4
61	2.67	5.78	5-12	3.27	5.40	2.52		3.69	3.59	1.01	5.37	3.50 44.6	.4
62	2.59	3.72	5.32	3.27	3.98	4.53		3.29	2.53	C.11	6.8C	2.17 33.3	9
63	2.01	2.13	6.60	0.96	1.30	3.40		1.86	2.01	3.55	2.23	3.62 34.8	5
64	4.60	5.70	2.09	3.99	0.56	1.59		5.34	2.10	1.19	C.65	C. 24 32.7	4
65	3.47	3.47	4.28	2.58	2.12	3.34	3.36	9.34	2.10		••••		
								1.16	8.61	3.78	1.33	3.61 41.3	4
66	4.72	4.78	0.92	3.02	3.20	2.49			0.91	3.83	1.94	6.99 37.6	2
67	1.32	2.47	4.09	1.05	3.90	0.87		5.13	1.26	2.57	3.7C	1.97 37.5	3
. 60	2.99	0.79	3.80	1.81		. 6.24	2.97		2.57	1.07	1.60	7.20 52.8	35
69	2.48	2.40	4.16		1.82	5.54		2.49	1.03	2.83	5.53	2.84 33.1	.7
70	1.53	2.61	3.48	4.45	1.80	0.35	4.10	2.77					
71	2.23	5.84	3.27	2.31	10.40	4.63	4.42	4.15	2.82			•	
11	4.43												

MONTHLY AND SEASONAL SNOWFALL (INCHES)

SEASON	SEPT	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	TOTAL
41-42	0.0	0.0	0.0	0.0	4.0	0.0	1.0	0.0	G.0	5.0
42-43	0.0	0.0	0.2	4.1	8.0	6.0	3.0	0.0	0.0	15.1
43-44	0.0	0.0	0.0	4.0	3.8	C.5	c.0	0.0	C.0	8.3
44-45	0.0	0.0	0.0	1.0	1.5	1.0	0.0	0.0	C.0	3.5
45-46	0.0	0.0	0.0	7.9	8.5	3.5	0.5	0.0	0.0	20.4
46-47	0.0	0.0	0.0	3.8	7.0	17.0	13.6	0.0	0.0	40.8
47-48	0.0	0.0	0.0	0.0	8.0	20.0	0 . C	0.0	C.0	28.0
48-49	0.0	0.0	0.0	1.5	2.5	2.0	0.0	0.0	C.0	6.0
49-50	0.0	0.0	0.0	0.0	C.0	8.0	2,5	0.0	0.0	10.5
50-51	0.0	0.0	1.0	6.0	0.0	1.0	0.0	0.0	0.0	8.0
51-52	0.0	0.0	0.0	2.5	1.5	C.0	0.0	0.0	C.0	4.0
52-53	0.0	0.0	2.0	1.5	C.0	0.0	7.0	0.0	0.0	10.5
53-54	0.0	0.0	2.0	C.0	12.0	0.0	0:0	0.0	0.0	14.0
54-55	0.0	0.0	0.5	2.5	7.0	1.5	0.0	0.0	0.0	11.5
55~56	0.0	0.0	0.0	0.5	2.7	G.0	1.5	0.0	0.0	4.7
56-57	0.0	0.0	0.0	0.0	10.5	1.0	0.0	1.0	0.0	12.5
57-58	0.0	0.0	0.0	6.0	1.0	19.0	12.5	0.0	0.0	38.5
58-59	0.0	0.0	0.0	1.5	4.5	G.0	0.0	3.0	C.0	9.0
59-60	0.0	0.0	0.0	0.0	3.0	13.0	28.5	0.0	0.0	44.5
60-61	0.0	0.0	0.0	7.0	12.5	17.5	0.0	0.0	0.0	37.0
61-62	0.0	0.0	1.0	5.5	10.5	7.5	22.0	3.5		46.5
62-63	0.0	0.0	2.0	16.0	0.5	3.5	0.0	0.0	C-0	22.0
63-64	0.0	0.0	0.0	4.0	7.5	10.5	2.0	0.5	0.0	24.5
64-65	0.0	0.0	1.0	C.0	10.0	3.0	1.5	0.0	0.0	15.5
65-66	0.0	0.0	0.0	0.5	32.2	7.0	0.0	0.0	0 =0	39.7
66-67	0.0	0.0	0.3	19.5	2.0	14.5	0.0	60.0	0.0	36.3
67-68		0.0	1.5	6.5	6.0	3.0	2.0	0.0	0.0	19.0
68-69	0.0	0.0	3.0	0.0	0.0	0.0	15.5	0.0	0.0	18.5
69-70	0.0	0.0	0.0	15.5	7.3	1.1	0.0	0.0	0.0	23.9
70-71	0.0	0.0	0.0	3.0	9.3	1.0	8.0	4.5	0.0	25.8
									٠.	1.

PRECIPITATION WITH PROBABILITY EQUAL OR LESS THAN

	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
JAN FEB MAR APR JUN JUL SEP OCT NOV DEC	1.25 8.07 1.58 1.23 0.92 1.07 1.42 0.96 0.59 0.65 0.67	1.52 1.35 1.94 1.51 1.23 1.38 1.86 1.86 0.92 1.06	1.90 1.75 2.44 1.92 1.69 1.85 2.52 2.10 1.32 1.35 1.78	2.22 2.66 2.86 2.25 2.10 2.24 3.09 2.74 1.74 1.74 1.74	2.52 2.40 3.22 2.51 2.50 2.63 3.64 3.37 2.13 2.13	2.82 2.73 3.65 2.89 2.92 3.02 4.21 4.63 2.53 2.73 3.12	3.14 3.08 4.08 3.24 3.38 3.46 4.84 4.88 3.16 3.16 3.19	3.52 3.50 4.58 3.64 3.92 3.97 5.58 5.83 3.79 3.57 3.75	4.30	4.71 4.84 6.17 4.93 5.74 5.65 8.02 9.10 1 5.99 5.48 5.62 4.22

Median precipitation amounts (0.50 probability level) in the above table differ from the means shown on the opposite page because of the method used in making the computations. The above values were determined from the incomplete gamma distribution whose curve has been found to give best fits to precipitation climatological series.

CLIMATOGRAPHY OF THE UNITED STATES NO. 20-44

LATITUDE 37°59'N LONGITUDE 76°46'W ELEV. (GROUND) 140 FT.

CLIMATOLOGICAL SUMMARY

STATION: WARSAW, VA.

MEANS AND EXTREMES FOR PERIOD 1941-71

				and or deliberation		TEM	PERA	TUR	E (° F)									PRE	CIP	TA	TION '	TOTAL	(II)	NCHES)					-	
		MEANS	S]	EXTE	EMES	5		1	MEA1 OF	N NU		R								SNOW	, SI	EET		-			IUM B DAYS		-
MONTH	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	DAY **	RECORD LOWEST	YEAR	DAY **	MEAN DEGREE DAYS BASE 65'	90° AND ABOVE W	32° AND BELOW	AND	O AND Z	EA	GREATEST MONTHLY	YEAR	GREATEST DAILY	YEAR	DAY **	MEAN	MAXIMUM MONTHLY	YEAR	GREATEST DAILY	YEAR	DAY **	.01 or MORE	.10 or MORE	. 50 or MORE	1.00 or MORE	MONTH
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	46.8 49.7 58.0 70.1 78.6 85.9 88.7 87.0 81.8 71.4 60.7 49.0	27.1 28.3 34.9 44.4 53.9 62.4 67.3 65.0 58.5 47.8 38.1 29.4	37.0 39.0 46.5 57.3 66.3 74.2 78.0 76.0 70.1 59.7 49.4 39.3	82 77* 92 95 99 105 106 103 105 100 84 78	43 61 45 60 41 59 42 53 54 41 71	19 29 26 29 30 20 31 7 6 2	-4k -1 10 0 0 41 47 44 35 24 14 -1	61 71 43 47 47 45 52 41 63 52 55 42	28 2 4 0 0 6 2 29 25 30 29 21	849 724 562 259 76 7 0 1 30 157 462 781	0 0 1 3 10 14 11 5 0	3 1 0 0 0 0 0 0 0 0	22 19 13 3 0 0 0 0 0 2 10 20	0 0 0 0 0 0 0 0 0 0 0	2.79 2.65 3.43 2.97 3.65 3.51 5.08 4.34 3.20 3.10 3.05	5.40 5.16 6.05 5.10 8.24 6.88 20.21 11.90 11.17 8.68 7.50 6.25	52 61 63 58 71 63 45 55 66 71 59 69	2.46 1.61 2.50 2.00 2.35 4.03 4.00 6.45 3.98 5.80 3.59 2.50	46 69 63 45 55 66 61 56 58	12 14 21 2 29	4.9 3.7 3.6 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	24.0 21.2 19.8 1.5	66 67 60 57	9.0 7.5 8.0* 1.5	60 64 57	13	9 8 9 10 9 10 9 7 7 7 8	6 6 7 6 6 6 7 6 5 5 5 5	1.7 1.9 2.5 2.4 2.5 2.5 3.1 2.8 2.1 2.0 2.3 2.2	0.3 0.6 0.6 1.1 1.0 1.6 1.1 1.1 0.9 0.7	JAN FER MAF APF MAY JUI AUG SEF OCT NOV DEC
EAR	69.0	46.4	57.7	106	42	20	-4it	61	28	3948	44	6	89	0	41.26	20.21	LY 45	.6.45	AUG 55		15.4	JAI 24.0		9.0		14	102	70	28.	10.	YE

*Also on earlier dates, months, or years. **Day observation was made.

NARRATIVE CLIMATOLOGICAL SUMMARY

February 1972

Warsaw, the county seat, is located in central Richmond County. This county lies in the Coastal Plain on the narrow Peninsula between the Potomac and Rappahannock Rivers known as the Northern Neck. The topography within the county is low and relatively flat. Elevations range from near sea level up to about 170 feet above sea level.

The climate of Warsaw is modified continental with mild winters and warm and humid summers. The mountains to the west, Chesapeake Bay with its tidal tributaries, and the Atlantic Ocean to the East are major factors controlling the climate in addition to the latitude and location on the North American continent. The mountains produce various steering, blocking, and modifying effects on storms and air masses. The large open bodies of water nearby and to the east, which are slow in reacting to atmospheric changes, contribute to the humid summers and mild winters.

Mean annual temperatures at Warsaw vary slightly from year to year but average about 58 degrees which is similar to the average of other stations in this region. Rather cool similar temperatures prevail during the cold season and rather warm similar temperatures prevail during the warm season with the spring and fall temperatures showing the upward and downward trends. May and September are usually warm, each having an average of a few days with the temperatures greater than or equal to 90. Daytime highs during the cold season are usually in the upper 40's with nighttime lows in the upper 20's. Maximum temperatures around 80 and minimum temperatures as low as -4 are the extremes during the winter season. Daytime highs during summer are usually in the upper 80's and nighttime lows in the middle 60's. Maximum temperatures up to 106 and minimum temperatures in the middle 40's are the extremes during July and August.

The number of days with the temperature greater than or equal to 90 has ranged from 13 in 1967 up to 78 days in 1943. Temperatures equal or exceed 90 mainly from April through October with the greatest frequency during June, July, and August which have averages from 10 to 14 days. The maximum temperature is below freezing on an average of 6 days each year. The temperature falls below freezing 19 to 22 days a month during the winter months but does not reach zero often enough to give a numerical average for the year.

The growing season, defined as the period between the average date of the last freezing temperature in spring (April 15) and the average date of the first freezing temperature in fall (October 26), is 194 days. Freezing temperatures in spring have occurred as late as May 11 and as early in fall as October 6. This growing season is long enough to allow proper maturity of a large variety of crops. Since knowledge of critical temperatures near and below freezing is needed by various users, a separate table has been computed showing

the probabilities of occurrence for different temperatures. Caution should be used in applying these values to other locations in the county. Elevation, air drainage, soil characteristics, night radiation, and type of air mass are some of the factors controlling the minimum temperature, sometimes causing large differences in short distances.

Heating degree days (mean degree days) as shown in the above table are a measure of the departure of the average daily temperature from 65 degrees. When the average daily temperature is above 65, the degree day value for that day is zero. The usual practice is to accumulate daily totals starting July 1 through June 30. At any time during the year, the accumulated degree days can be used as a measure of past temperature effect upon power and finel consumption.

Precipitation is well distributed throughout the year with the maximum in July and the minimum in February. During this 30 year period, monthly amounts varied from less than a cinch up to 20.21 inches during July 1945. The highest daily total of over 6 inches occurred during August 1955 and can be attributed to the passage of a hurricane. Rainfall in summer is due mainly to showers and thundershowers. Nearly 40 days each year have thunderstorm activity which is about average for the state. In winter, some of the precipitation usually occurs as snow. The average is about 15 inches a year but yearly amounts are extremely variable ranging from almost none up to nearly 40 inches during the winter 1966-67.

South to southwest winds predominate but with a secondary maximum frequency from a northerly direction in most months generally reflecting the progression of weather systems across the state. Relative humidity varies inversely with temperature being high in the morning and low in the afternoon. Average values are in the 80's early in the morning dropping into the 50's in the afternoon. Cloudiness is least during the fall season averaging less than five-tenths coverage, and greatest in winter, with almost six-tenths coverage. Partly cloudy days are most frequent in summer with about 40% of the days in this category.

Hurricanes and other tropical disturbances occasionally move far enough inland to affect Warsaw and the surrounding areas. They have generally lost their identity as hurricanes by this time, and the remaining low pressure centers usually produce heavy rains and occasionally strong winds. Tornadoes are local storms of short duration formed of winds rotating at high speeds usually visible as a "funnel cloud." Tornadoes are quite rare in Richmond county with only two reported in the last 55 years. Thunderstorms, accompanied by severe lightning, high wind and hail, are much more frequent and produce the greatest amount of storm damage.

Curtis W. Crockett
NOAA Climatologist for Virginia
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PROBABILITY OF FREEZES OCCURRING AS LATE IN THE SPRING OR AS EARLY IN THE FALL AS DATES SHOWN IN THE FOLLOWING TABLE

PERCENT CHANCE					TEMP	ERATU	JRE LEV	/ELS				
OF LATER CATE IN SPRING	16	3°	20)°	2	4°	2	3°	3:	2°		6°
	1 4 54	7.6	E C 0	7	FEB	24	MAR	12	APR	- 2	APR	12
90	MAL		FEB							20 10	APR	
70	FEB	11	FEB	21	MAR		MAR	24	APR	10		
50	FEB	22	MAR	2	MAR	16	MAR	31	APR	15	APR	27
30	MAR	4	MAR	11	MAR	23	APR	7	APR	20	MAY	4
10	MAR	19	MAR	24	APR	4	APR	17	APR	27	MAY	13
PERCENT CHANCE												
OF EARLIER CATE												
IN FALL												
10	DEC	2	NOV	20	NOV	8	OCT	26	OCT	11	SEPT	27
30	DEC	10	NOV	27	NOV	16	NOV	1	OCT	20	OCT	6
	DEC	15	DEC	3	NOV	22	NOV	5	OCT	26	OCT	13
50				-			NOV	9	NOV	1	OCT	19
70	DEC	22	DEC	8	NOV	28						
90			DEC	16	CEC	6	NOA	15	NOV	10	OCT	29

STATION HISTORY

DATE	LOCATION	ELEVATION	OBSERVER
	(FROM POST OFFICE)	(FT MSL)	
JAN, 1941 - JUL, 1947	.1 MILE S	143	R. A. FARMER
JAN, 1951 - MAY, 1966	2.3 MILES N	140	EASTERN VA. RESEARCH S
MAY, 1966 - PRESENT	2.0 MILES NW	140	EASTERN VA. RESEARCH S' HOUSTON M. CAMPER

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNL
41	38.7	36.2	42.1	59.6	69.0	73.5	79.1	76.1	69.7	65.1	51.0	43.7	58.6
42	35.1	35.9	49.3	59.7	69.9	75.6	80.5	75.6	71.9	60.7	52.5	36.1	58.6
43	40.2	42.2	47.4	53.9	70.3	80.2	78.5	77.9	64.4	58.8	49.0	40.1	59.0
44	39.9	40.5	46.2	56.6	72.2	77.1	78.4	75.8	72.2	59.3	49.3	36.7	58.7
45	34.3	41.9	59.0	61.7	64.4	76.1	76.1	75.9	75.1	60.2	52.4	33.5	59.2
-	-												
46	38.9	42.6	54.8	57.2	66.1	72.8	75.5	74.0	70.7	63.0	55.5	44.4	59.6
47	44.2	34.7	40.6			72.7	86.4						
48													
49													
50													
51	42.0	42.0	46.4	55.9	63.7	73.6	77.6	76.1	70.5	61.4	45.4	42.4	58.1
52	42.3	41.2	45.4	58.0	64.2	76.9	60.3	76.1	68.8	55.4	49.3	38.8	58.1
53	42.7	43.5	47.5	56.7	70.1	74.3	79.7	75.7	65.8	60.0	48.4	42.2	59.2
54	38.0	44.7	47.9	61.0	63.1	74.3	78.0	76.1	74.1	63.1	45.9	38.5	58.7
55	35.9	39.8	49.8	60.4	66.6	69.9	61.0	78.4	70.0	59.9	46.8	34.5	57.8
56	35.0	42.6	46.0	54.6	64,6	74.3	77.4	76.1	67.9	60.8	48.6	48.1	58.0
57	35.1	42.5	46.4	60.9	67.8	75.8	77.8	75.1	71.9	54.4	51.2	42.9	58.5
58	34.3	33.4	41.9	57.4	65.3	71.2	79.4	75.4	68.2	58.8	51.0	33.0	55.8
59	36.9	40.6	47.3	59.9	69.3	75.9	77.7	79.1	71.5	61.8	48.3	42.8	59.2
60	38.9	39.5	35.4	61.0	63.9	73.7	76.6	77.7	65.8	59.0	50.0	33.8	56.6
4.1	21 0	41.7	49.5	51.5	62.8	72.7	78.1	76.7	74.2	59.7	51.7	37.9	57.4
61 62	31.8	37.4	44.2	57.0	69.4	73.3	74.5	74.9	67.0	59.5	45.1	33.4	56.0
63	32.8	31.3	49.9	58.5	65.0	73.3	77.5	76.4	66.8	59.9	52.1	32.6	56.3
64	39.3	37.4	48.3	55.5	67.2	74.7	77.2	74.0	68.2	54.2	52.0	43.4	57.6
65	36.5	39.1	43.2	54.2	69.9	72.1	76.0	75.8	71.5	57.0	49.8	42.5	57.3
0,	,0.,				• . • .								
66	32.8	37.3	47.7	53.4	64.1	73.7	78.0	76.1	67.4	56.5	49.5	37.5	56.2
67	42.0	36.4	46.0	58.2	60.3	72.3	75.3	74.4	65.5	57.0	44.3	41.1	56.1
68	32.8	32.9	50.2	56.6	63.1	73.9	76.9	77.5	68.6	60.3	51.1	37.0	56.7
69	34.9	36.8	43.0	58.4	65.7	75.4	77.8	74.4	68.3	58.2	47.0	35.9	56.3
70	30.4	36.2	42.7	55.4	67.5	73.4	76.8	76.4	73.7	61.9		39.9	
	22.0	20.6	(2)	E / C	47 1	74.0	75.5	74.1	70.6	64.4	47.8	47.1	57.2
71	32.9	39.9	43.4	54.0	63.1	. 4.0	17.3	, 7 . 1	.0.0	0767	1, 10		
72	39.5												

TOTAL PRECIPITATION (INCHES)

ΥR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	ост	NOV	DEC	ANNL
41	2.40	1.45	2.92	3,40	2.73	1.70	5.13	2.63	0.02	0.65	0.66		26.82
42	3.33	0.97	5.37	0.46	1.59	3.76	4.73	6.96	4.25	5.43	1.68		40.95
43	2.37	1.92	2.46	3.31	6.33	2.64	4.24	3.34	3.38	3.79	1.74		37.37
44	2.89	3.57	5.62	4.79	0.77	2.72	6.45	3.71	3.51	2.89	3.60		42.43
45	1.59	2.32	0.84	2.41	4.66	3.02	20.21	0.92	5.13	1.24	4.12	5.67	52.13
46	1.90	1.67	3.25	2.65	6.33	3.47	6.35	4.56	3.71	2.49	1.26	2.30	39.94
47	4.53	1.43	1.39		4.93	3.09	4.53						
48													
49													
50													
51	1.47	1.69	2.68	3.07	3.04	4.66	5.23	2.91	2.68	2.19	5.27	3.87	38.76
52	5.40	2.87	3.99	4.67	3.28	2.92	2,62	2.61	3.44	2.53	4.58	3.46	42.37
53	3.94	3.28	4.38	3.31	4.25	1.40	1.33	4.73	1.50	2.77	1.70		35.27
54	3.86	1.20	2.86	2.08	3.58	C.52	2.60	3.29	0.63	2.21	2.67		28.42
55	0.98	2.90	4.21	4.20	3.06	5.92	2.86	11.90	5.47	2.63	1.97	0.82	46.92
56	2.23	3.30	2.94	3.08	2.39	2.78	6.48	2.24	8.01	5.02	6.58		47.99
57	3.23	3.41	3.70	2.60	1.96	4.68	1.16	6.24	3.22	6.40	3.80		45.88
58	3.81	4.52	5.87	5.10	4.78	4-15	4.75	7.85	2.41	4.78	3.29		55.68
59	1.22	1.57	2.79	3.92	0.71	1.10	12.21	1.93	2.29	5.20	7.50		43.33
60	2.08	3.73	2.61	3.34	6.57	1.07	5.63	6.02	7.97	3.13	1.18	3.01	46.74
61	3.49	5.16	4.65	2.26	6.33	5.49	2.39	2.82	3.56	8.48	1.61		51.36
62	4.92	3.45	4.32	4.08	2.44	5.81	4.39	4.45	3.95	C.78	6.85		48.32
63	1.81	1.83	6.05	0.14	2.59	6.88	0.66	1.57	2.52	0.00	5.98		32.02
64	3.48	4.97	2.60	4.88	0.73	3.93	3.63	6.08	3.38	2.65	2.28		41.45
65	2.38	2.01	3.48	2.26	1.25	5.31	7.24	2.40	3.36	1.10	0.43	0.37	31.59
66	3.20	3.70	0.83	3,41	2.91	3.79	3.75	1.36	11.17	5.19	1.45		43.91
67	1.88	2.41	2.38	1.20	4.26	C.90	6.36	6.48	1.47	1.41	2.01		35.84
68	2.63	0.51	5.38	1.49	4.33	6.34	2.97	4.23	1.21	1.89	2.87		35.69
69	3.28	3.02	3.16	3.52	4.35	2.18	5.75	11.25	3.59	1.28	1.63		49.26
70	1.16	1.92	3.27	2.72	3.37	4.33	5.36	0.57	1.27	1.70		2.63	
71	2.61	3.37	1.92	1.73	8.24	3.74	3.32	4.11	1.26	8.68	3.60	0.81	43.39
72	2.38												

SEASON	SEPT	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	TOTAL
41-42	0.0	0.0	0.0	0.0	5.5	0.0	3.0	0.0	0.0	8.5
42-43	0 . C	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0	8.0
43-44	0.0	0.0	0.8	2.0	2.9	1.5	1.6	0.0	0.0	8.2
44-45	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	1.5
45-46	0.0	0.0	0.0	7.0	5.0	0.0	0.0	0.0	0.0	12.0
46-47 47-48 48-49	0.0	0.0	0.0	0.0	0.0		13.9		0.0	
49-50 50-51					0.1	1.5	0.0	0.0	0.0	1.2
51-52	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	4.5
52-53	0.0	0.0	1.0	0.0	0.5	0.0	4.3	0.0	0.0	5.8
53-54	0.0	0.0	8.0	0.0	9.0	0.0	0.0	0.0	0.0	17.0
54-55	0.0	0.0	0.0	2.5	8.Ç	2.0	0.0	0.0	0.0	12.5
55-56	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7
56-57	0.0	0.0	0.0	0.3	7.4	0.7	0.0	1.5	0.0	9.9
57-58	0.0	0.0	0.0	3.5	4.3	6.4	7.2	0.0	0.0	21.4
58-59	0.0	0.0	0.0	13.3	1.5	0.0	0.0	0.0	0.0	14.8
59-60	0.0	0.0	0.0	0.0	1.4	8.5	19.8	0.0	0.0	29.7
60-61	0.0	0.0	0.0	5.5	5.7	8.5	0.0	0.0	0.0	19.7
61-62	0.0	0.0	0.0	0.8	19.4	5.5	8.0	0.0	0.0	33.7
62-63	0.0	0.0	1.0	9.4	2.3	3.1	0.0	0.0	0.0	15.8
63-64	0.0	0.0	0.0	1.5	4.2	16.6		0.0	0.0	31.8
64-65	0.0	0.0	0.3	0.3	11.8	3.9	1.7	0.0	0.0	18.0
65-66	0.0	0.0	0.0	0.2	24.0	4.5	0.5	0.0	0.0	29.2
66-67	0.0	0.0	0.0	12.0	6.0	21.2	0.0	0.0	0.0	39.2
67-68	0.0	0.0	1.5	3.8	3.1	1.0	4.0	0.0	0.0	13.4
68-69	0.0	0.0	0.0	1.5	0.0	4.0	15.5	0.0	0.0	21.0
69-70	0.0	0.0	0.0	3.0	6.9	1.3	0.0	0.0	0.0	11.2
70-71	0.0	0.0		0.4	7.4	0.8	6.7	0.0	0.0	
71-72	0.0	0.0	0.0	0.0	0.0					,

PRECIPITATION WITH PROBABILITY EQUAL OR LESS THAN

	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.
	Section 1	-	-	***************************************	-	-	-		Delitera		-
JAN	1.24	1.50	1.86	2.16	2.44	2.72	3.02	3.37	3.80	4.47	5.
FEB	0.97	1.21	1.55	1.84	2.10	2,39	2.69	3.04	3.49	4.18	4.
MAR	1.45	1.77	2.22	2.59	2.93	3.29	3.67	4.11	4.66	5.51	6.
APR	0.84	1.12	1.54	1.91	2.26	2.64	3.05	3.53	4.16	5.15	6.
MAY	1.07	1.42	1.94	2.39	2.84	3.30	3.80	4.40	5.18	6.39	7.
JUN	0.95	1.27	1.76	2.19	2.61	3.05	3.53	4.11	4.86	6.03	7.
JUL	1.31	1.79	2.54	3.21	3.87	4.56	5.33	6.25	7.45	9.34	11.
AUG	1.01	1.42	2.08	2.66	3.24	3.86	4.56	5.39	6.48	8.22	9.
SEP	0.57	0.88	1.42	1.94	2.48	3.07	3.75	4.58	5.69	7.52	9.
OCT	0.41	0.65	1.07	1.47	1.90	2.36	2.91	3.57	4.48	5.95	7.
NOV	0.73	1.02	1.48	1.90	2.31	2.75	3.24	3.82	4.59	5.81	6.
DEC	0.98	1.27	1.71	2.08	2.45	2.82	3.23	3.72	4.34	5.31	6.

Median precipitation amounts (0.50 probability level) in the above table differ from the means shown on the opposite page because of the method used in making the computations. The above values were determined from the incomplete gamma distribution whose curve has been found to give best fits to precipitation climatological series.

U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION,
IN COOPERATION WITH THE WATER RESOURCES RESEARCH CENTER AND THE RESEARCH
DIVISION OF VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

CLIMATOGRAPHY OF THE UNITED STATES NO. 20-44

LATITUDE 38°13'N LONGITUDE 78°07'W ELEV. (GROUND) 515 FT.

CLIMATOLOGICAL SUMMARY

Orange STATION: PLEDMONT RESEARCH STN.,

 4 815	FYTD	THEC	FOR	DEBIOD	1946-70	

		TEMPERATURE (* F)													PRE	CIP	ITA	TION	TOTAL	S (I	NCHES)		11	. 9						
		MEAN	5			EXT	REME	s			MEAL	N NU		R								SNOW	, s.	LEET					NUME		
MONTH	DAILY MAXIMUM	DAILY MINIMUM	MONTHLT	RECORD	YEAR	DAY **	RECORD LOWEST	YEAR	DAY **	MEAN DEGREE DAYS BASE 65	90° AND ABOVE	AND	32. AND BELOW Z	147	3	GKEATEST MONTIILY	YEAR	GREATEST DAILY	YEAR	DAY **	MEAN	MAXIMUM MONTHLY	YEAR	GREATEST DAILY	YEAR	DAY **	.01 or MORE	. 10 or MORE	. 50 or MORE	1.00 or MORE	
JAH PEB MAR AIR MAY JUL AUG SEP OAT NOV DEC	46.0 48.0 56.2 68.2 76.8 84.2 87.8 86.3 80.0 70.0 58.3	24.6 25.9 32.3 43.2 52.3 60.5 64.9 63.6 56.5 45.6 35.0	35.3 37.0 44.3 55.7 44.6 72.4 76.4 75.0 68.3 57.0 46.7	78 81 87 94 99* 102 106 103* 106 98 86 78	50 48 48 60 63 52 59 53 54 51 50 56	26 28 21 24 10 27 1 31 6 7	-9 -1 7* 20* 28 41 50* 48 33 22 9*	70 65 60 64 47 66 67 65 63 52 56 42	21 1 9 5 9 1 5 29 25 30 24	913 786 639 299 106 11 0 1 49 243 544	0 0 0 0 2 8 13 10	4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 21 16 3 0 0 0 0 0 2 13 23	0 0 0 0 0 0 0 0 0 0 0	2.51 2.52 3.56 3.12 3.35 3.34 3.72 4.29 3.27 2.92 3.05 3.03	4.82 4.73 5.83 5.63 7.79 9.37 6.93 13.32 10.72 7.18 6.98 7.14	49 60 63 52 48 51 49 55 66 54	2.33 2.76 2.51 2.07 3.50 3.28 3.96 2.92 5.24 2.82	55 66 54	14 8 6 1 2 1C 22 18 20 15 20	5.3 6.4 4.8 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27.0 25.0 25.5 4.0	61	4.0	66 58 62 59	15 6 13	9 6 10 11 11 10 11 10 6 7	6 7 7 7 6 6 7 5 4 6 5	1.6 1.8 2.8 2.2 2.0 2.1 2.5 2.5 2.1 1.9 2.0 2.1	0.4 0.8 0.9 1.0 0.9 1.0 0.6 0.7	J F M A M J A A S I S I O O N D I
:	47.6	26.5	3/01	70	20	SEPT	14	94	JAN	654		-	23	-	3.03	ĀU	-	2077	ÓC	7	103	JA		MA	_					~	-
AR	47 6	44.2	55.9	100	54	PEPI	-9	70		4450	37	8	102	1	38. 68	13.32		5.24	541	15	22.0					6	111	72	26.	10.	YI

*Also on earlier dates, months, or years. **Day observation was made.

NARRATIVE CLIMATOLOGICAL SUMMARY

The Piedmont Research Station is located just outside of the town of Orange which is the county seat of Orange County. The county is in the north central part of the Piedmont Plateau. The topography is generally rolling but becomes steep near the few mountains in the county. Elevations range mostly from 200 to 500 feet above see level except up to 1200 feet on the Southwestern Mountains in the western part of the county.

The climate of the Piedmont Research Station is modified continental with mild winters and warm and humid summers. The mountains to the west, the Chesapeake Bay, and the Atlantic Ocean are major factors controlling the climate in addition to the latitude and location on the North American continent. The mountains produce various steering, blocking, and modifying effects on storms and air masses. The large open bodies of water, which are slow in reacting to atmospheric changes, contribute to the humid summers and mild winters.

Mean annual temperatures at the Piedmont Research Station vary eligitly from year to year but average 56 degrees, which is near the average of other nearby stations. Rather cool similar temperatures prevail during the cold season and rather warm similar temperatures prevail during the warm season with the spring and fall temperatures showing the upward and downward trands. May and September are usually warm, each having an average of a few days with the temperature greater than or equal to 90. Daytime highs during the cold season are usually in the upper 40's with nighttime lows in the middle 20's. Maximum temperatures as low as -9 are the extremes during the winter season. Daytime highs during summer are usually in the middle to upper 80's and nighttime lows in the low to middle 60's. Maximum temperatures up to 106 and minimum temperatures around 50 are extremes during July and August.

The number of days with the temperature greater than or equal to 90 has ranged from 12 in 1967 up to 61 days in 1954. The maximum temperature is below freezing on an average of 8 days each year. The temperature falls below freezing 21 to 24 days a month during the winter months and reaches zero often enough to give a numerical average of 1 day for the year.

The growing season, defined as the period between the average date of the last freezing temperature in spring (April 17) and the average date of the first freezing temperature in fall (October 23), is 189 days. Freezing temperatures in spring have occurred as late as May 17 and as early in fall as October 4. This growing season is long enough to allow proper maturity of a large variety of crops. Since knowledge of critical temperatures near and below freezing is needed by various users, a separate table has been computed showing the probabilities of occurrence for different temperatures. Caution should be used in ap-

PROBABILITY OF FHEEZES OCCURRING AS LATE IN THE SPRING OR AS EARLY IN THE FALL AS DATES SHOWN IN THE FOLLOWING TABLE

PERCENT CHANCE					TEMP	ERAT	TURE LE	VELS				
OF LATER CATE IN SPRING	1	6°	2	50,		24°		28°		32°		36
90	FEB	5	FEB	25	MAR	7	MAR	22	MAR	31	APR	12
70	FEB	18	MAR	7	MAR	16	APR	1	APR	10	APR	23
50	FEB	26	MAR	14	MAR	23	APR	7	APR	17	APR	30
36	MAR	5	MAR	21	MAR	29	APR	14	APR	24	MAY	8
10	MAR	16	APR	1	APK	8	APR	23	MAY	4	MAY	19
PERCENT CHANCE												
OF EARLIER CATE												
IN FALL												
10	NOV	24	NOV	9	OCI	31	OCT	21	OC T	7	SEPT	29
30	DEC	2	NOV	18	NOV	9	OCT	28	OC T	16	OCT	6
50	DEC	8	NOV	24	NOV	15	NOV	1	OCT	23	OC T	12
70	DEC	14	NOV	30	NOV	21	NOV	6	DCT	29	OCT	17
90	DEC	23	DEC	4	NOV	30	NOV	13	NOV	7	OCT	25

plying these values to other locations in the county. Elevation, air drainage, soil characteristics, night radiation, and type of air mass are some of the factors controlling the minisum temperature, sometimes causing large differences in short distances.

leating degree days (mean degree days) as shown in the above table are a measure of the departure of the average daily temperature from 65 degrees. When the average daily temperature is above 65, the degree days value for that days is zero. The usual practice is to accumulate daily totals starting July 1 through June 30. The accumulated degree days can be used as a measure of past temperature effect upon power and fuel consumption.

Precipitation is well distributed throughout the year with the maximum in August and the minime in January and February. During this period, monthly amounts varied from about k inch up to 13.32 inches during August 1955. Two hurricanes passed through the state during this month causing excessive rainfall. The highest daily total of over 5 inches occurred during October, 1954 and was associated with hurricane Hazel. Rainfall in summer is due mainly to showers and thundershowers. Thicty-five to forty days each year have thunderstorm activity which is slightly less than the average for the state. In winter, some of the precipitation usually occurs as snow. The average is about 22 inches a year but yearly amounts are extremely variable ranging from less than 5 up to 48 inches.

South to southwest winds predominate but with a secondary maximum frequency from a northarly direction in most months generally reflecting the progression of weather systems across the state. Relative humidity varies inversely with temperature being high in the morning and low in the afternoon. During the warm sesson average values are around 80 early in the morning, dropping into the 50's in the afternoon. Cloudiness is least in fall averaging around five-tenths coverage, and greatest in winter, with over six-tenths coverage. Partly cloudy days are most frequent in summer with about 40 percent of the days in this category.

Hurricanes and other tropical disturbances occasionally move far enough inland to affect the Piedmont Research Station and the surrounding areas. They have generally lost their identity as hurricanes by this time, and the remaining low pressure centers usually produce heavy rains and occasionally strong winds. Tornedoes are local storms of short duration formed of winds rotating at high speeds usually visible as a "funnel cloud." Tornadoes are infrequent in Orange County with only one officially documented during the last 55 years. Thundaratorms, accompanied by severe lightning, high wind and hail, are much more frequent and produce the greatest amount of storm damage.

Curtis W. Crockett

NOAA Climatologist for Virginis
Agronomy Department, V.P.I. & S.U.
Blacksburg, Virginis 24061

STATION HISTORY

DATE	LOCATION	ELEVATION	OBSERVER
	(FROM POST OFFICE)	(FT. MSL)	
NOV, 1946 - PRESENT	1.6 MILES SSW	515	PIELMONT RESEARCH STATION (GEORGE D. JONES)

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	ост	NOV	DEC	ANNL
46												45.5	33.6
47	42.6	31.9		58.4		71.0			69.5	63.1	45.4	36.7	56.2
48	30.0	39.0		57.9		73.3	76.8	74.6	67.7	55.1	50.9	40.9	56.7
49	44.8	45.6		54.6		74.2	78.9	76.0	66.3	61.6	47.7	40.5	58.6
50	48.5	38.8	43.1	53.8	64.5	72.7	74.8	74.4	66.3	60.4	46.7	34.7	56.6
51	38.8	39.9	45.8	55.5	64.9	72.9	74.8	75.3	69.2	61.8	43.5	40.6	57.1
52	41.3	40.8	44.5	56.7	64.2	77.0	78.7	74.8	68.5	55.1	48.5	37.6	57.3
53	41.1	42.5	47.5	56. L	71.0	74.1	78.9	76.4	70.5	61.0	48.0	40.4	59.0
54	37.6	43.7	46.0	60.4	62.2	74.0	77.9	77.0	73.7	63.0	44.8	36.2	58.0
5 5	35.1	38.4	47.8	59.4	66.9	69.2	81.0	76.7	68.3	56.4	43.8	33.1	56.3
56	34.5	41.5	44.8	54.5	63.9	72.5	74.8	74.0	67.3	59.2	46.4	46.4	56.6
57	33.3	42.1	46.1	59.5	67.2	74.5	77.5	75.2	70.9	53.4	48.5	41.1	57.4
58	33.6	30.6	41.3	56.2	63.9	70.5	77.9	74.0	68.2	57.3	50.2	33.0	54.7
59	35.2	40.0	46.1	56.7	67.7	73.1	76.4	77.4	69.3	59.1	43.8	38.3	50.9
30	36.6	35.3	32.7	58.4	62.1	71.5	75.1	75.9	68.6	57.0	46.8	29.3	54.1
61	29.0	37.5	46.9	50.2	60.1	70.2	75.7	. 74.3	72.4	50.1	48.9	35.5	54.9
62	32.3	33.8	41.0	54.4	67.8	71.1	72.5	73.0	64.5	58.6	42.9	32.3	53.8
43	30.4	29.1	48.0	57.3	63.1	71.6	75.3	74.3		59.8	48.0	28.8	54.2
64	35.1	34.2	45.1	52.9	65.7	73.2	76.7	73.0	67.5	52.9	50.3	38.5	55.4.
65	33.1	34.6	41.0	51.9	68.7	69.6	75.4	74.3	69.9	54.0	47.2	38.9	54.9
		100								2400	4.14	20.7	34.7
66	29.2	33.4	45.4	49.7	62.0	71.7	76.4	74.6	66.3	53.7	46.8	34.7	53.7
67	34.0	31.4	43.8	54.2	58.0	71.5	74.2	72.6	63.5	54.4	42.0	38.8	53.7
68	29.9	31.9	47.9	55.8	60-1	72.0	76.1	76.4	67.8	-58.1	47.9	34.5	54.9
49	30.6	35.5	41.3	56.0	64.4	72.9	76.1	73.3	66.8	55.8	44.5	33.1	54.3
70	27.1	35.3	40.1	54.1	65.6	72.7	75.4	74.5	71.1	58.5	47.0	37.2	54.9
71	29.7	35.6	40.9	53.0	61.5	73.2	. 74.3	72.8	69.6	62.4	46.1		

SEASON	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	TOTAL
46-47				4.6	2.5	15.5	13.0	0.0	0.0	35.3
47-46	0.0	0.0	0.0	0.0	0.5	4.0	0.0	0.0	0.0	4.5
48-49	0.0	0.0	1.0	0.1	3.5	5.5	0.0	0.0	0.0	
49-50	0.0	0.0	9.6	0.1	0.0	8.5	0.0	0.0	0.0	8.4
50-51	0.0	0.0	1.5		0.0	1.0	0.0	0.0	0.0	•••
51-52	0.0	0.0	0.0	6.0	0.5	0.0	2.5	0.0	0.0	9.0
52-53	0.0	0.0	3.0	1.0	0.5	0.0	6.5	0.0	0.0	11.0
53-54	0.0	0.0	3.5	0.0	6.0	0.0	. 0.0	1.0	0.0	10.5
54-55	0.0	0.0	0.0	4.3	5.5	2.5	~0.0	0.0	0.0	12.3
55-56	0.0	0.0	3.0	0.0	3.0	1.5	2.0	0.0	0.0	9.5
56-57	0.0	0.0	0.0	0.0	9.7	3.0	0.0	1.0	0.0	13.7
57-58	0.0	0.0	1.0	7.0	1.0	19.0	15.0	0.0	0.0	43.0
56-59	0.0	0.0	0.0	1.0	5.0	0.0	0.0	4.0	0.0	10.0
59-60	0.0	0.0	0.0	0.0	1.5	11.5	25.5	0.0	0.0	38.5
60-61	0.0	0.0	0.0		14.5	25.0	0.5	0.0	0.0	48.0
61-62	0.0	0.0	1.5	7.5	4.0	8.3	20.0	0.0	0.0	45.3
62~63	0.0	0.0	1.0	12.0	1.0	2.5	3.6	0.0	0.0	19.5
43-64	0.0	0.0	0.0	8.0	7.0	5.0	7.0	0.0	0.0	27.0
64-65	0.0	0.0	0.0	1.0	13.0	3.0	3.0	0.0	0.0	20.0
65-66 ·	0.0	0.0	0.0	1.0	9.75	9.0	0.0	0.0	0.0	37.0
66-67	0.0	0.0	0.1	23. L	3.0	17.0	1.0	0.0	0.0	44.2
67-68	0.0	0.0	0.0	3.0	6.0	3.0	0.0	0.0	0.0	12.0
66-69	0.0	0.0	6.0	0.0	0.5	4.5	15.0	0.0	0.0	28.0
69-70	0.0	0.0	0.0	16.5	7.5	3.0	0.0	0.0	0.0	27.0
70-71	0.0	0.0	0.0	0.0	14.0	1.0	8.0	2.5	0.0	25.5

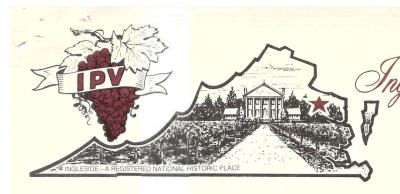
TOTAL PRECIPITATION (INCHES)

										-	THE OWNER OF TAXABLE PARTY.		وعبيدة بالجامة
YR	JAN	FEB	MAR		MAY	JUNE	JULY	AUG	SEPT	ост	NOV	DEC	ANNL
46		1.4	•	- :		-					1.19	2.22	3.41
47		1.30	1.76	2.53	2.58	3.15	3.14	1.38	3.11	1.14			31.46
48	3.18	1.69	3.45	5.C7		2.09					6.52		53.50
49	4.82	2-14	2.77	2.92	2,60	5.18	6.93	6.26	3.25	2.78	0.74		43.02
50	2.22	2.61	2.60	1.50	4.91	2.11	2.83	1.33	6.61	2.50	1.84		35.04
51	1.15		4.43	4.20	1.54	9.37	2,90	5.25	1.35	1.55	4.97	4.33	43.76
52	4.56	2.28	5.61	5.63	5.70	3.93	2.02	4.13	3.09				47.22
93	3.27		5.40	3.79	3,66	3.70	1.01	1.70	0.62	2.50	0.65	3.78	32.48
34	1.85		4.05	3.51	3.04	1.27	3.18	1.25	0.79	7.18	2.35	4.60	34.21
3 5	0.43	3.31	4.87	3.92	2.95	3.12	4.46	13.32	0.90	1.66	1.65	0.28	40.67
56	1.08		2.66	2.44	0.71	2.54	5.97	3.32	6.43	4.00	2.38	1.77	36.43
57	1.93	3.51	1.92	4.11	1.12	4.59	1.10	1.28	4.57	4.85	3.80	4.01	36.79
50	3.52	2.54	4.53	2.99	2.71	5.90	3.46	5.55	2.49	2.22	2.10		40.54
39	2.19	1.08	3.05	4.07	3.09	3.65	4.06	4.82	2.18	5.54	2.53		39.14
6 0	2.56	4.73	2.47	3.59	4.59	3.00	2.00	3.72	5.40	1.17	1.01		36.13
61	2.21	4.14	2.97	4.17	3.99	2.26	5.75	6.91	1.63	4.84	1.91	3.79	44.57
42	1.62	3.28	4.76	2.92	4.78	3.26	3.56	3.44	4.08	1.43	5.19		41.79
63	1.16	1.71	5.83	1.19	1.14	2.98	3.00	2.46	3,36	0.0	6.25		30.37
44	4.22	3.60	2.05	3.09	0.65	2.62	2.03	3.00	3.60	3.14	2.79		34.11
45	2.45	4.69	3.94	2.62	3.40	1.72	2,96	4.80	2.19	2.36	0.79	0.28	32.48
66	3.06	2.69	2.28	3.31	6.02	2.74	3.13	0.88	10.72	4.16	1.60	2.76	43.55
67	1.67	1.21	4.61	1.07	3.51	1.21	6.50	8.58	1.70	3.45	0.81		41.46
68	3.47	0.29	3.31	1.50	4.34	4.23	3.62	5.96	2.01	3.17	4.68		38.17
48	2.02	2.02	3.31	1.20	2.09	4.19	5.69	4.63	4.22	1.43	2.08		39.09
10	1.39	2.35	2.82	3.89	3,43	1.27	6.03	1.30	1.59	3.61	4.71		35.04
71	2.32	4.55	3.13	2.51	10.29	3.92	3.69	5.34	2.43	11.46	3.03		

PRECIPITATION WITH PROBABILITY EQUAL OR LESS THAN

	- Commercial and	Annual Section	September 1997	-				-			niserebasso
	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.1
JAN	0.88	1.12	1.46	1.74	2.02	2.30	. 2.60	2.96	3.41	4.11	` 4 .
FEB	0.85	1.09	1.44	1.73		2.30	2.62	2.98	3.46	4.19	4.
MAR	1.68	2.17	2.54	2.87	3.16	3.44	3.74	4.07	4.50	5.12	5.
APR	1.35	1.63	2.02	2.34	2.64	2.94		3-63	4.09	4.80	5.
MAY	0.98	1.31	1.81	2.24	2.66		3.58	4.15	4.69	6.06	7.
JUN	1.24	1.55	2.00	2.37	2.71	3.00	3.48	3.93		5.40	
JUL	1.45	1.00	2.31	2.73	3.09		3.97	4.48	3.13	6.13	7.
AUG	0.93	1.32	1.95	2.51	3. C8	3.69	4.37	5.19	4.27	7.99	9.
SEP	0.77	1.07	1.55	1.98	2.41		3.37	3.98	4.78	6.05	
OC T	0.45	0.70	1.12	1.52	1.94	2.40	2.93	3.58	4.45	5.47	7.
NOA	0.61	0.68	1.33	1.74	2.15	2.60	3.10	3.71	4.52	5.81	7.
DEC	0.66	0.94	1.39	1.79	2.19	2.42	3.10	3.45		5.65	6.4

Median precipitation amounts (0.50 probability level) in the above table differ from the means shown on the opposite page because of the method used in making the computations. The above values were determined from the incomplete gamma distribution whose curve has been found to give best fits to pageipitation climatological series.



30,000 GALLON BONDED WINERY IN WESTMORELAND COUNTY

INGLESIDE PLANTATION, INC. P.O. BOX 1038 • OAK GROVE, VIRGINIA 22443-0838

April 4, 1985

Mr. Ed Reisman, ATF Specialist Bureau of Alcohol, Tobacco and Firearms FAA, Wine and Beer Branch Washington, DC 20226

Dear Mr. Reisman:

In response to our recent phone conversations in regard to the proposed George Washington Birthplace Viticultural Area, I wish to present the following:

The five county proposed viticultural area is locally known as the "Northern Neck" being, of course, the northern most neck of land situated between the great rivers of tidewater Virginia. The name "Northern Neck" however, is not very well known throughout the rest of the state and is almost unknown outside the state.

It seems to us that in order to fully utilize the advantages in having a viticultural area established, the name, if appropriate and fitting, should be one that is recognizable to the general public not only in the state but also the region and the nation. We think that the names "Shenandoah" and "Monticello" are appropriate and will benefit not only the wine industry in those areas but also the area itself should receive certain deserved benefits.

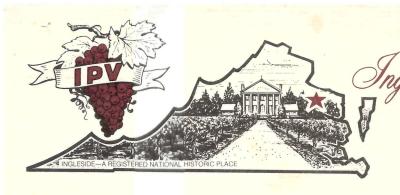
George Washington's family, both father and mother, for three generations before his birth were either residents, land owners, or intimately connected in some way with each of the five northern neck counties of the proposed viticultural area. His birth here was not just an accidental birth which may have happened because his mother was visiting or had just moved to the area. George Washington sprang from the Northern Neck as did his mother and father and their mothers and fathers. This is the land and birthplace of George Washington. We feel the name is appropriate and fitting.

Mr. Reisman, if we cannot get approval of this name, we will naturally be extremely disappointed and will reluctantly accept our second choice, "Northern Neck."

Yours very truly,

CARL F. FLEMER, JR.

President



30,000 GALLON BONDED WINERY IN WESTMORELAND COUNTY

INGLESIDE PLANTATION, INC. P.O. BOX 1038 • OAK GROVE, VIRGINIA 22443-0838

August 20, 1986

Richard A. Mascolo Chief, FAA, Wine and Beer Branch Department of the Treasury Bureau of Alcohol, Tobacco and Firearms Washington, DC 20226

Dear Mr. Mascolo:

Your letter of August 6, 1986 has been received and I thank you.

In reply, I would like to make one more appeal for the name "George Washington's Birthplace" or "George Washington".

I enclose a map, which I recently discovered, of the original Northern Neck of Virginia grant. I have highlighted the entire boundary of the more than 5,000,000 acre tract and in another color highlighted the relatively small tidewater county area which all of us natives consider closely associated and directly connected with the Washington family and the Birthplace of George Washington.

We agree, we are locally called the "Northern Neck" and without a doubt we are a portion of the vast original "Northern Neck" tract, however, we are that relatively small, isolated tidewater portion of the original grant in which the Washington and Ball families have lived for generations (and still do) and in which George Washington was born. In each of these five counties a vast majority of the citizenry take great pride in the fact that the "Father of Our Country" sprang from their area. Leading citizens in each county (as recent correspondence, enclosed, indicates) stand with us in asking you to give us the Washington name.

Though we feel that, in a loose term sense, we locally call ourselves the "Northern Neck" we are statewide, nationwide and internationally better identified as the "Land and Birthplace of George Washington". It is in no way misleading to anyone anywhere for us to be named the "George Washington viticultural area" or the "George Washington Birthplace viticultural area".

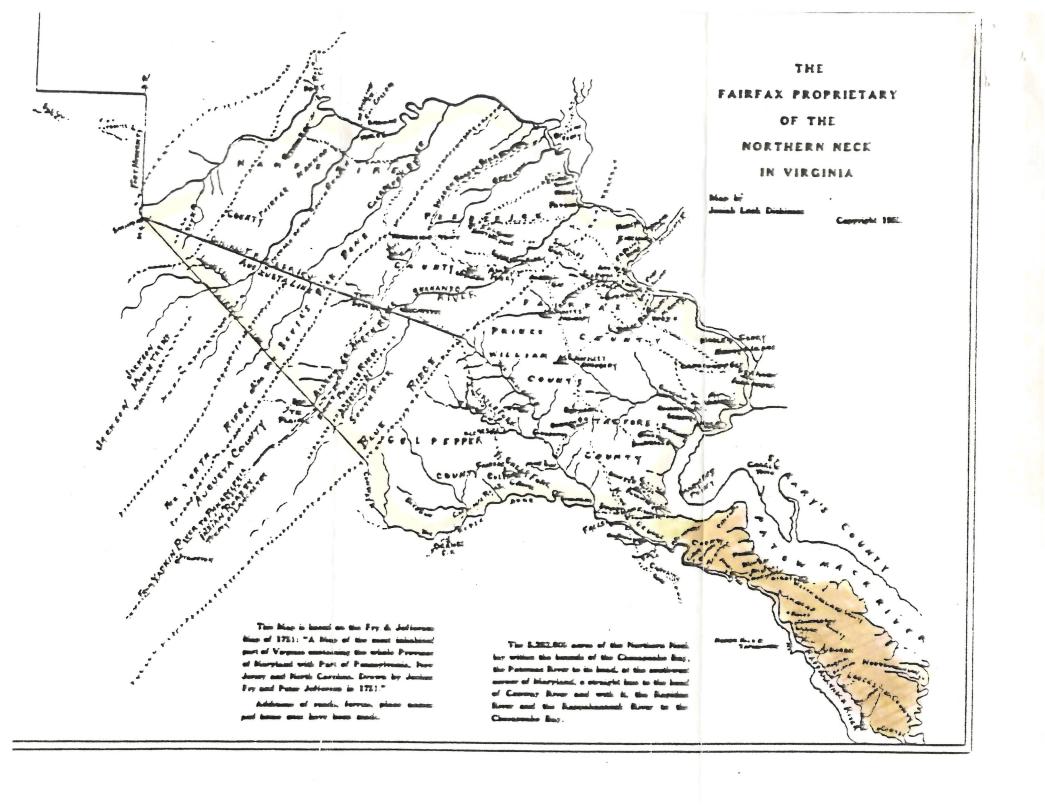
At your suggestion, for a compromise name, we would be willing to consider "George Washington's Northern Neck Birthplace" however, I wonder how all of this would fit on a wine label. Could an abbreviated form be used for labels and other printed matter? If so, how exactly, may it be abbreviated so that the use of the term will not be cumbersome?

Very truly yours,

Carl F. Flemer, Jr.

CFF: 1mp Enclosures

cc: Senator Paul Trible Ian Williams



Mary Ball Washington Museum & Library, Inc.

P. O. BOX 97 LANCASTER, VIRGINIA 22503 TELEPHONE (804) 462-7280

August 13, 1986

Ms. Anita Sanders
County Administrator
Board of Supervisors
P. O. Box 167
Lancaster, Virginia 22503

Dear Anita:

In response to your letter of the eleventh instant, this museum and library would very much like to see the Northern Neck be designated as a viticultural area, and named for George Washington.

To my knowledge, no organization, place, street, etc. uses his name. However, since his mother, Mary Ball, was born in Lancaster County, and since The Mary Ball Washington Museum and Library, Inc. is the only institution, to my knowledge, in the United States to have been founded to honor Washington's mother, it would seem fitting and proper that Lancaster County qualify as a part of the George Washington Viticultural Area in the Northern Neck. Our museum and library has members all over the country who are Ball-Washington family descendants. Our organization is widely-recognized and houses a very large collection of Washington memorabilia, including an authenticated lock of his hair and a very important early lithograph, a huge silver tray bearing his crest, and many fine silhouettes, all presented by members of the family.

On behalf of the Board of Directors, I heartily support so naming and identification of this viticultural area.

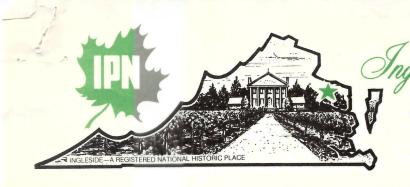
Sincerely;

Ann Lewis Burrows Executive Director

and

Secretary to Board

ALB: am1



VIRGINIA'S LARGEST AND FINEST NURSERY

2,000 ACRES LOCATED IN HISTORIC WESTMORELAND COUNTY

INGLESIDE PLANTATION, INC. P.O. BOX 1038 • OAK GROVE, VIRGINIA 22443-0838

September 26, 1985

Chief, FAA, Wine and Beer Branch Bureau of Alcohol, Tobacco & Firearms P.O. Box 385 Washington, DC 20044-0385

Dear Sir:

I enclose resolutions unanimously adopted recently by each of the Boards of Supervisors of the five counties, Lancaster, Northumberland, Richmond, Westmoreland and King George, in which they each recommend that the proposed viticultural area be approved and named the "George Washington Viticultural Area."

Our original petition asks for the name "George Washington Birthplace." We wish to state here that we will be pleased to accept either "George Washington Birthplace" or "George Washington" as the name for our viticultural area. We strongly feel that "Northern Neck" will mean very little to the vast majority of Virginia's population and nothing to those living in other states. We further submit that "Monticello" was an excellent and meaningful name choice for the viticultural area extending through the counties of Orange, Albemarle and Nelson covering 1,250 square miles which is an area considerably larger than our 922 square miles.

As is stated in the Federal Register Public Notice, George Washington's Birthplace is actually only the area encompassed by the National Park Service Memorial site in Westmoreland County. So also, we submit, Monticello is only the site of Jefferson's home in Albemarle County.

Yours very truly,

CARL F. FLEMER, JR.

President

CFF: CWC

Enclosure

WHEREAS, the Northern Neck of Virginia is a geographical area with great historical significance; and

WHEREAS, George Washington, "the Father of Our Country", was born in Westmoreland County, located in the Northern Neck, and served the region in the Virginia House of Burgesses,

WHEREAS, Mary Ball, mother of George Washington, was closely associated with each of the five Northern Neck counties, having been born in Lancaster, lived in Northumberland, Westmoreland and King George and owned property in Richmond County; and

WHEREAS, the growing of grapes in the Northern Neck of Virginia has developed in recent years as a significant agricultural pursuit worthy of designation as a viticultural area; and

WHEREAS, the historical association of George Washington and the Washington family with the Northern Neck is appropriate for naming and identifying such a viticultural area.

NOW THEREFORE, BE IT RESOLVED that it be recommended by this Board to the appropriate state and federal agencies that the Northern Neck of Virginia be designated as a viticultural area and be it further recommended that it be named the George Washington Viticultural Area.

Westmoreland County

By Everett w onell

Chairman, Board of Supervisors

Date July 10, 1985

MASON, WILLIAMS
& MASON
601 COLONIAL AVENUE
LONIAL BEACH, VA 2244:

TESTE COPY

E. E. Burge, County Admiristrato

E. Ralph Dameron First District

E. R. "Betty" Barrack Second District

John J. Cardwell
Third District



Anita Sanders County Administrator 804—462-5220 24 Hr. Iv. 804—462-5111

BOARD OF SUPERVISORS P.O. BOX 167 LANCASTER, VIRGINIA 22503

At a meeting on August 29, 1985, the Board of Supervisors of Lancaster County adopted the following resolution to be forwarded to the proper state and federal agencies recommending the Northern Neck of Virginia be designated a viticultural area, named the George Washington Viticultural Area.

RESOLUTION

WHEREAS, the Northern Neck of Virginia consists of four counties, being Lancaster, Northumberland, Richmond and Westmoreland Counties, and is a geographical area of great historical significance; and

WHEREAS, "the father of our Country", George Washington, was born in Westmoreland County and served the area in the Virginia House of Burgesses; and

WHEREAS, the mother of George Washington, Mary Ball, was born in Lancaster County, lived in Northumberland and Westmoreland Counties, and owned property in Richmond County; and

WHEREAS, the growing of grapes in the Northern Neck has developed in recent years as a significant agricultural pursuit worthy of the area being designated as viticultural; and

WHEREAS, the historical association of George Washington and his family with the area is appropriate for the naming and identification of this viticultural area;

THEREFORE, BE IT RESOLVED, the Board of Supervisors of Lancaster County recommends the Northern Neck of Virginia be designated as a viticultural area and it be named the George Washington Viticultural Area.

THE BOARD OF SUPERVISORS OF LANCASTER COUNTY

SEP 1985
SEP 1985
SEP 1985
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OF SEPTIMENT OF SE

: <u>Auta Sau dus</u> Anita Sanders, County Administrator W. D. "Berry" Gray, Chairman Washington Magisterial District Rt. 3, Warsaw, Virginia 22572

Louis G. Peckett, Vice Chairman Marshall Magisterial District Warsaw, Virginia 22572

Milton W. Douglas Farnham Magisterial District Rt. 1, Farnham, Virginia 22460

A. Myers France Stonewall Magisterial District Rt. 1, Warsaw, Virginia 22572 RICHMOND COUNTY VIRGINIA

Board of Supervisors

Warsaw, Virginia 22572

Stephen K. Whiteway County Administrator Warsaw, Virginia 22572 804-333-3415

William T. King Commonwealth Attorney Warsaw, Virginia 22572

RESOLUTION

WHEREAS, the Northern Neck of Virginia is a geographical area with great historical significance; and

WHEREAS, George Washington, "the Father of Our Country", was born in Westmoreland County, located in the Northern Neck, and served the region in the Virginia House of Burgesses,

WHEREAS, Mary Ball, mother of George Washington, was closely associated with each of the five Northern Neck counties, having been born in Lancaster, lived in Northumberland, Westmoreland and King George and owned property in Richmond County; and

WHEREAS, the growing of grapes in the Northern Neck of Virginia has developed in recent years as a significant agricultural pursuit worthy of designation as a viticultural area; and

WHEREAS, the historical association of George Washington and the Washington family with the Northern Neck is appropriate for naming and identifying such a viticultural area.

NOW, THEREFORE, BE IT RESOLOVED that it be recommended by the Board of Supervisors of Richmond County, Virginia to the appropriate state and federal agencies that the Northern Neck of Virginia be designated as a viticultural area and be it further recommended that it be named the George Washington Viticultural Area.

Stephen K. Whiteway

County Administrator

Date: August 8, 1985

SUPERVISORS

Edwin A. Sisson, Chairman Heathsville, VA 22473

William E. Sanford, Jr., Vice-Chairman Lottsburg, VA 22511

Leonard W. Newsome Lottsburg, VA 22511

William A. Hudnall Heathsville, VA 22473



Northumberland County, Virginia

Board of Supervisors
Heathsville, Virginia 22473

John E. Burton Heathsville, VA 22473 804-580-7666

COUNTY ADMINISTRATOR

VIRGINIA:

At a regular monthly meeting of the Northumberland County Board of Supervisors held in the Courthouse at Heathsville, Virginia on Thursday, August 8, 1985 at 10:00 a.m.

Present:

Edwin A. Sisson, Chairman

William E. Sanford, Jr., Vice-Chairman

Leonard W. Newsome

William A. Hudnall

Upon motion by William A. Hudnall duly seconded by William E. Sanford, Jr., and unanimously carried the following resolution was adopted:

RE: DESIGNATION OF THE NORTHERN NECK AS GEORGE WASHINGTON VITICULTURAL AREA

WHEREAS, the Northern Neck of Virginia is a geographical area with great historical significance; and

WHEREAS, George Washington, "the Father of Our Country", was born in Westmoreland County, located in the Northern Neck, and served the region in the Virginia House of Burgesses,

WHEREAS, Mary Ball, mother of George Washington, was closely associated with each of the five Northern Neck counties, having been born in Lancaster, lived in Northumberland, Westmoreland and King George and owned property in Richmond County; and

WHEREAS, the growing of grapes in the Northern Neck of Virginia has developed in recent years as a significant agricultural pursuit worthy of designation as a viticultural area; and

WHEREAS, the historical association of George Washington and the Washington family with the Northern Neck is appropriate for naming and identifying such a viticultural area.

NOW, THEREFORE, BE IT RESOLVED that it be recommended by this Board to the appropriate state and federal agencies that the Northern Neck of Virginia be designated as a viticultural area and be it further recommended that it be named the George Washington Viticultural Area.

A true copy, teste:

John E. Burton, County Administrator

Fing George County, Airginia

BOARD OF SUPERVISORS

Isaac S. Hughes James Madison District

Woodrow W. Saft Dahigren District

Diane F. Shields. James Monrie District



COUNTY ADMINISTRATOR

Kenneth M. Scruggs P.O. Box 169 King George, Virginia 22485 Phone (703-775-9181

At a regular meeting of the Board of Supervisors of King George County, Virginia, held on Thursday, the 15th day of August 1985, the following resolution was adopted on a motion by Diane E. Shields, seconded by Isaac S. Hughes, and carried unanimously, with Ms. Shields, Mr. Hughes and Mr. Saft voting aye:

RESOLUTION

WHEREAS, the Northern Neck of Virginia is a geographical area with great historical significance; and

WHEREAS, George Washington, "the Father of our Country," was born in West-moreland County, located in the Northern Neck, and served the region in the Virginia House of Burgesses; and

WHEREAS, Mary Ball, mother of George Washington, was closely associated with each of the five Northern Neck counties, having been born in Lancaster, lived in Northumberland, Westmoreland and King George and owned property in Richmond County; and

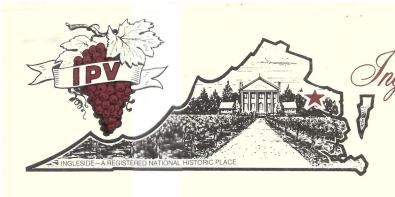
WHEREAS, the growing of grapes in the Northern Neck of Virginia has developed in recent years as a significant agricultural pursuit worthy of designation as a viticultural area; and

WHEREAS, the historical association of George Washington and the Washington family with the Northern Neck is appropriate for naming and identifying such a viticultural area;

NOW, THEREFORE, BE IT RESOLVED that it be recommended by this Board to the appropriate state and federal agencies that the Northern Neck of Virginia be designated as a viticultural area, and be it further recommended that it be named the "George Washington Viticultural Area."

A Copy Teste:

County Administrator



30,000 GALLON BONDED WINERY IN WESTMORELAND COUNTY

INGLESIDE PLANTATION, INC. P.O. BOX 1038 • OAK GROVE, VIRGINIA 22443-0838

October 1, 1986

Mr. Richard A. Mascolo Chief, FAA, Wine and Beer Branch Department of the Treasury Washington, DC 20226

Dear Mr. Mascolo:

Your letter of September 23rd has been received.

We feel that the most acceptable name of your four suggestions would be:

Northern Neck George Washington Birthplace

We hope that this will finally resolve the issue and that you can proceed with establishing and naming our five county viticultural area.

Yours very truly,

CARL F. FLEMER,

CFF:maj