

This letter shall serve as a letter of introduction for our revised petition for the establishment of an American Viticultural Area. Our contact information is as follows:

Petitioner and Contact Persons

Petitioner:

The Williamsburg Winery, Ltd.
5800 Wessex Hundred
Williamsburg, VA 23185
[Redacted]

Contact Persons:

Amanda J. Shortt
[Redacted]

Kristen M. Duffeler
[Redacted]

Proposed AVA

Name: Virginia Peninsula AVA

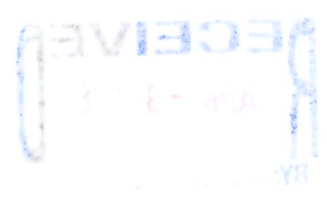
Location: The proposed Virginia Peninsula AVA is located in and comprised entirely of the area known as the Virginia Peninsula. The Virginia Peninsula is the southernmost of three peninsulas on the western shore of the Chesapeake Bay in Virginia. The boundaries of the proposed AVA are essentially the same as the boundaries of the peninsula, and are defined by the Chesapeake Bay to the East, the York River (and the Pamunkey River, which feeds into it) to the North, the James River to the South and the western boundary of Charles City and New Kent Counties (which are approximately coincident with the Atlantic Seaboard Fall Line) to the West. The proposed Virginia Peninsula AVA consists of all of the lands in the Counties of James City, York, New Kent, and Charles City, as well as the independent cities of Poquoson, Hampton, Newport News, and Williamsburg.

If you have any questions about the enclosed petition or its attachments, please do not hesitate to contact us through the contact persons listed above.

Sincerely,

[Redacted Signature]

Amanda J. Shortt



(1) Total acreage of the proposed AVA. 673,059 acres

(2) The total acreage within the proposed AVA that is currently occupied by commercial grape growing vineyards, together with any available information regarding planned increases in vineyard acreage. The petition should also explain the extent to which viticulture is dispersed within the proposed AVA boundary.

Of the 1,051 square miles of the proposed AVA, 112 acres are currently under vine and occupied by commercial grape-growing vineyards, with at least 61 additional acres to be added over the next 5 years. Vineyards are interspersed throughout the proposed AVA with 40 acres in James City County, 17 acres in Charles City, and 55 acres in New Kent County. For additional information and to illustrate viticultural activity within the proposed AVA, please see the attached as Exhibit A.

(3) The number of commercial vineyards in the proposed AVA.

There are currently 5 commercial vineyards in the proposed Virginia Peninsula AVA, all located adjacent to the 5 bonded wineries.

(4) The number of known bonded wineries in the proposed AVA.

There are currently 5 bonded wineries in the proposed AVA.

(5) Name evidence. The name of the proposed AVA is the Virginia Peninsula AVA.

(i) **Name usage.** The Virginia Peninsula is the southernmost of three peninsulas on the east coast of Virginia. The boundaries consist of the Chesapeake Bay to the East, the York River (and the Pamunkey River, which feeds into it) to the North, the James River to the South and the western boundary of Charles City and New Kent County (which are approximately coincident with the Atlantic Seaboard Fall Line and its attendant elevation shift) to the West.

(ii) **Source of name and name evidence.** The name "Virginia Peninsula" is in common usage to describe the area and has its own Chamber of Commerce as well as its own Wikipedia page. Many organizations make use of the name, including the Virginia Peninsula Foodbank, the Virginia Peninsula Rotary Club and the Virginia Peninsula Regional Jail. Some governmental organizations also make use of the name, including the National Oceanic and Atmospheric Administration (NOAA) and the National Weather Service. The name is in current use, and also has a long history – the so-called "Peninsula Campaign" of the Civil War is named for the location of battles on the Virginia Peninsula. Attached as Exhibit B are the following supporting materials:

- (1) An excerpt from a NOAA summary describing the hurricane history of central and eastern Virginia, including a reference to Hurricane Ernesto on the Virginia Peninsula (highlighted).
- (2) A screen shot from the New Kent County government website stating its location on the Virginia Peninsula
- (3) A screenshot from Virginia.org (the Official Tourism Website of the Commonwealth of Virginia) describing Hampton as being part of the "Virginia Peninsula"
- (4) A photocopy from the Yellow Pages showing use of the name by businesses located on the Peninsula

- (5) A one page excerpt from a book, "Place Names on the Virginia Peninsula"
- (6) A news article from the Richmond Times Dispatch making use of the name (highlighted)
- (7) A screenshot of the Virginia Peninsula Chamber of Commerce website
- (8) A map of the Virginia Peninsula from the Virginia Peninsula Wikipedia page
- (9) Map of battles of the Peninsula Campaign

(6) Boundary evidence. The petition must explain in detail the basis for defining the boundary of the proposed AVA as set forth in the petition. This explanation must have reference to the name evidence and other distinguishing features information required under this section. In support of the proposed boundary, the petition must outline the commonalities or similarities within that boundary and must explain with specificity how those elements are different in the adjacent areas outside that boundary.

As stated above the north, south and east boundaries of the area known as the Virginia Peninsula (and accordingly, of the proposed AVA) are well defined by the three bodies of water to the north, south, and east. For example, the book, "Place Names of the Virginia Peninsula" defines the peninsula as being bordered to the east by the Chesapeake Bay, and between the "broad James and York rivers" to the north and south (see Attachment A).

Further, the Virginia Peninsula has its own Wikipedia page, and the map on that page delineates the Virginia Peninsula as being bordered on three sides by the Chesapeake Bay, the York and the James.

The western boundary of the Virginia Peninsula is less precisely defined with various sources placing it slightly further west or east. Generally, the western boundary is defined as being approximately coincident with the western boundary of Charles City County and New Kent County – see for example, the map of the Virginia Peninsula from the Virginia Peninsula Wikipedia page. This western boundary is not merely a political boundary. It is further defined by a distinct change in elevation and in soil type (both of which are factors having a material impact on the viticulture of the area) which take places at the Atlantic Seaboard Fall Line. Based on data from the USGS maps, the area within the proposed AVA is defined as being at an elevation of 1-249 feet, with the area to the west of the proposed AVA marked as 250-499 feet in elevation.

As outlined above this selected western boundary, like the southern, eastern and northern boundaries, is also in keeping with the name evidence.

The Virginia Peninsula is a distinctive geographic feature on the Atlantic Coastal Plain of Virginia that is bound by the broad James and York River estuaries. The Virginia Peninsula is approximately 50 miles in length and varies from 5 to 15 miles in width. The Peninsula has played an important role in American history (Jamestown Settlement, Yorktown Siege, British Surrender, Civil War Campaign, etc.), but also has a physiography and climate distinctive from the Piedmont province to the West, the interior Coastal Plain to the South, and the Atlantic Coast to the Southeast. Below the Fall Line, the York and James River are tidal estuaries and provide a maritime influence which moderates the average minimum low and maximum high temperatures within the proposed boundary to a greater extent in comparison to areas to the West and South which are further away from these bodies of water. The soil in the boundary is sedimentary in nature while areas to the west of the Richmond Fall Line have an igneous or metamorphic rock base.

These differences and their impact on viticulture are further discussed in the following section on distinguishing features.

(7) Distinguishing features. The petition must provide, in narrative form, a description of the common or similar features of the proposed AVA affecting viticulture that make it distinctive. The petition must also explain with specificity in what way these features affect viticulture and how they are distinguished viticulturally from features associated with adjacent areas outside the proposed AVA boundary. For purposes of this section, information relating to distinguishing features affecting viticulture includes the following:

(i) **Climate. Temperature, precipitation, wind, fog, solar orientation and radiation, and other climate information;**

The climate type of the Virginia Peninsula is a humid subtropical climate (Koppen classification Cfa) with long humid summers and moderate to mild winters. The growing season (frost free period) averages 193 days, although there is considerable variability between the dates of the last frost (average last frost date is April 10) as well as when the last grapes are harvested (typically between the end of October and early November).

Per a five-year analysis (2013 – 2017) of Weather Underground of the growing season, the average maximum high temperature is 100°F for the Williamsburg area, 95°F for Surry, VA (located directly south of the proposed AVA), and 96°F for West Point (located immediately north of the proposed AVA) (see Exhibit C). The number of 100°+F days for Williamsburg has increased over the past five years from zero in 2013 to five in 2016 and 2017, while neither Surry nor West Point experienced any 100°+ days over the past five years. More importantly, Williamsburg averaged 57 days over 90°F whereas Surry averaged 17 days and West Point 32 days. One such study on the climate and grapevines stated, “the overall optimum temperature grapevine growth is 77°F and 90°F.” (Sluys, 2006) With almost 30% of the growing season above the optimum temperature range, the viticultural teams of the proposed AVA are faced with challenges that do not affect areas to the north or south. The study further states further that, “temperatures above the optimum range reduce the grapevines’ photosynthesis rate due to the increase in respiration.” As it is through the photosynthesis process that sugar is produced, a reduced rate would require fruit to hang longer, resulting in an elongated growing season to ensure the fruit reaches desired sugar levels, increasing the risk of disease or animals destroying a crop.

Precipitation averages 40” per year (see attached Exhibit C), and typically the Peninsula is well watered throughout the year. However, there can be extended periods of dry weather from August to November or large amounts of precipitation (5” to >10”) due to tropical storms that tend to impact the region every few years. This period corresponds to the period up to and including grape harvest throughout the proposed boundary.

During the Harvest season, from August 21 – November 8 in 2013 to 2017, the average rainfall was 7.4” in Williamsburg. West Point had a similar average rainfall to Williamsburg at 7.2”, however the number of days with significant rainfall (over 0.5”) during harvest was less than half than that of Williamsburg. Surry experienced a rainfall average during the same period of 10.4”, over 39% more than Williamsburg during this critical time of year. In addition, Surry experiences almost 30% more days of significant rainfall than Williamsburg during the harvest season. According to Wine Spectator, particularly heavy rains during harvest could cause berries to swell, and even split, causing issues such as spoilage, mold, and mildew in addition to diluting the flavor. As an example, in 2016, Williamsburg had almost a month of little to no rainfall, resulting in a strong harvest both in quality and quantity of white varietals, which are typically picked

earlier than reds. Beginning September 19th, Williamsburg received four consecutive days of rainfall well over 0.5" and, of the 8.86" of rain for the 80-day period, 92% fell over a three-week period in the middle of harvest. As such, harvest of red varieties was of poor quality with low yields in the proposed AVA (in 2017, the Williamsburg Winery harvested 54.57 tons of red fruit in 2017, an exceptional vintage, whereas in 2016 only 27.13 tons of red varieties were harvested). These heavy day rains force viticulture teams and winemakers to decide whether to pick unripe grapes early to avoid the above issues or to let the fruit continue to hang and ripen, but potentially spoil.

(ii) Geology. Underlying formations, landforms, and such geophysical events as earthquakes, eruptions, and major floods;

The Virginia Peninsula is located on the Atlantic Coastal Plain, a low elevation/low topographic relief region that is underlain by sediments (sand, mud, gravel) of Cenozoic age. These deposits were formed during periods of higher sea level when eastern Virginia was flooded, the laterally most continuous units are marine sands and muds that contain abundant marine fossils. Estuarine deposits formed along the major rivers (James and York rivers) during high stands of sea level, these deposits are characteristic of much of the surficial geology on the Virginia Peninsula and different from regions to the west (the Piedmont underlain by igneous and metamorphic rock) or along the Coastal Plain away from major rivers (Cederstrom, D. J. (1957).

To the west of the Virginia Peninsula lie the Hopewell faults marking the beginning of the high-strain zones in the Piedmont and Blue Ridge areas of Virginia. These regions faults are over 200 Ma, dating as far back as the Precambrian age around 700 Ma ago. The high strain zones have multiple fault lines throughout, running northeast throughout the state of Virginia. During periods of low sea level, erosion and incision took place, creating the Coastal plains region of Virginia. The sedimentary layers that underlie the Virginia Peninsula are geologically young, ranging in age from 4 to 5 million years to deposits that are less than 100,000 years in age. As a result, earthquakes in eastern Virginia are extremely rare (Bailey, 2000) (see Exhibit E). North and south of the proposed AVA have similar structures, with few fault lines and geologically young deposits.

The resulting younger land of the Virginia Peninsula, and areas to the north and south, are characterized by tertiary and quaternary rock formations, versus the granite, gneiss, metamorphic rock, and igneous intrusive that comprise other areas of Virginia to the west (see Exhibit D). These younger formations are ideal for viticulture, as the bedrocks tend to be more fractured than granite or older rock formations, resulting in greater penetration of rainfall and vine roots (Huggett, 2005). The ideal bedrock for a vineyard site has medium to high porosity, high fracture permeability (drainage created by fractures measuring at over 100 mD) and, and low matrix permeability (drainage through the rock formations with a range of 1 – 100 mD). Granite, such as that to the west of the AVA, has a low porosity, low fracture permeability and variable matrix permeability (Huggett, 2005). The proposed AVA, and areas to the north and south, are comprised of Tertiary and Quaternary sand, silt, and clay, which have high porosity, high fracture permeability, and variable matrix permeability (Bailey).

(4) Maps and boundary description. —(i) Maps. The petitioner must submit with the petition, in an appropriate scale, the U.S.G.S. map(s) showing the location of the proposed AVA. The exact boundary of the AVA must be prominently and clearly drawn on the maps without obscuring the underlying features that define the boundary line. U.S.G.S. maps may be obtained from the U.S. Geological Survey, Branch of Distribution. If the map name is not known, the petitioner may request a map index by State.

(ii) Boundary description. The petition must include a detailed narrative description of the proposed AVA boundary based on U.S.G.S. map markings. This description must have a specific beginning point, must proceed unbroken from that point in a clockwise direction, and must return to that beginning point to complete the boundary description. The boundary description must refer to easily discernable reference points on the U.S.G.S. maps. The proposed AVA boundary description may rely on any of the following map features:

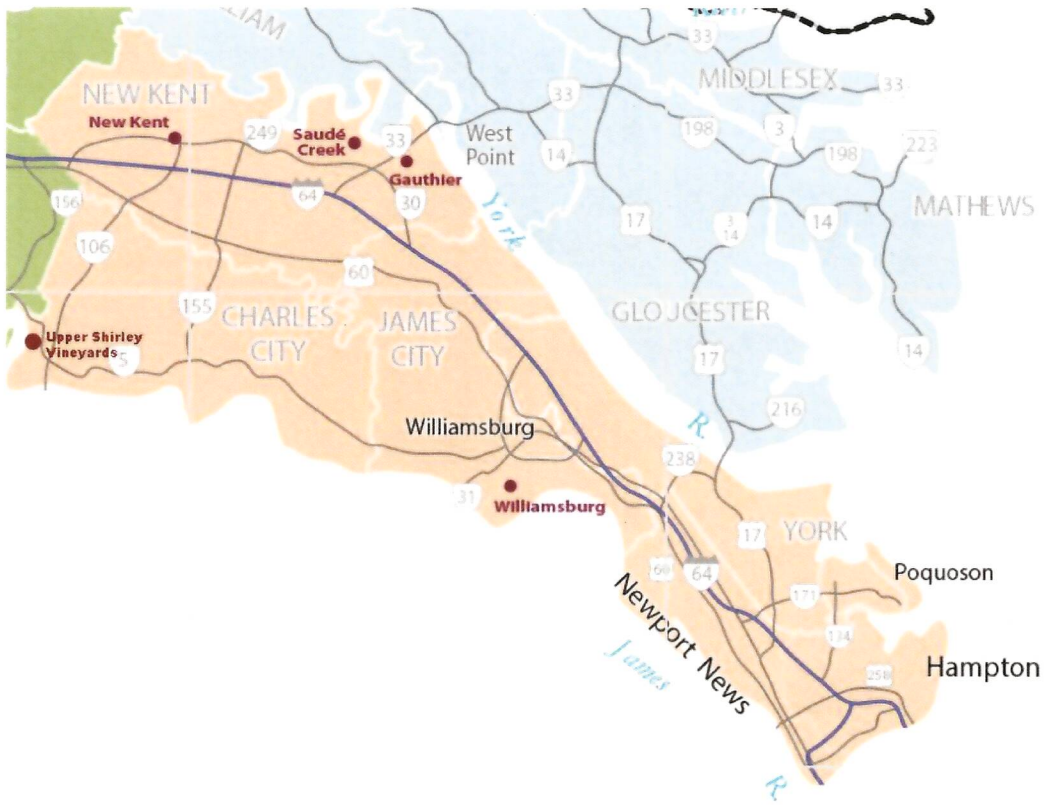
- (1) State, county, township, forest, and other political entity lines;**
- (2) Highways, roads (including unimproved roads), and trails;**
- (3) Contour or elevation lines;**
- (4) Natural geographical features, including rivers, streams, creeks, ridges, and marked elevation points (such as summits or benchmarks);**
- (5) Human-made features (such as bridges, buildings, windmills, or water tanks); and**
- (6) Straight lines between marked intersections, human-made features, or other map points.**

The proposed Virginia Peninsula viticultural area consists of all of the lands in the Counties of James City, York, New Kent, and Charles City as well as the independent cities of Poquoson, Hampton, Newport News, and Williamsburg. The boundaries of the proposed Virginia Peninsula viticultural area, using landmarks and points of reference found on the appropriate U.S.G.S. maps, are as follows:

- (1) Beginning on the Virginia U.S.G.S. map at the Southern point of Newport News, Virginia at Newport News Point and Interstate 664 (Hampton Roads Beltway) proceed west by northwest along the northern shoreline of the James River to the junction of Turkey Island Creek and the James River, located at the boundary of Charles City and Henrico Counties, approximately 54 air miles.
- (2) Thence proceed north by northeast following the county boundary line of Charles City and Henrico Counties to triple point of the boundaries of Charles City, Henrico, and New Kent County located at the Chickahominy River, approximately 8.5 air miles.
- (3) Thence proceed northwest following the Chickahominy River, which is also the boundary line of Charles City and Henrico Counties to where it intersects with VA Route SR 613 (Dispatch Road) at the triple point of the boundaries of New Kent, Hanover and Henrico Counties, approximately 5 air miles.
- (4) Thence proceed northeast following the boundary of New Kent and Hanover counties to VA Route SR 619 (Hopewell Road), approximately 5 air miles.
- (5) Thence proceed Easterly along VA Route SR 619 (Hopewell Road), following the boundary of New Kent and Hanover Counties for approximately 1.6 driving miles.

- (6) Thence proceed northerly along an unnamed tributary of Matadequin Creek, following the boundary of New Kent and Hanover Counties, for approximately 1.7 miles.
- (7) Thence proceed north by northeast along Matadequin Creek, following the boundary of New Kent and Hanover Counties, to the junction of Matadequin Creek with the Pamunkey River, approximately 1.1 air miles.
- (8) Thence proceed following the Pamunkey River heading easterly to where it flows into the York River at West Point, Virginia, approximately 19 air miles.
- (9) Thence proceed along the York River heading southerly to the Chesapeake Bay and Goodwin Islands, Virginia, approximately 30 air miles.
- (10) Thence proceed south along the Virginia Shoreline and Chesapeake Bay to Fort Monroe, approximately 20 air miles.
- (11) Thence head West at the point where the Chesapeake Bay and James River converge back to the point of beginning (Newport News Point and Interstate Route 664), approximately 7 air miles.

Exhibit A



Wineries	Current Acres under vine	Additional planned plantings (5 years)
Gauthier Vineyards	3	Undetermined
New Kent Winery	22	28
Saude Creek Winery	30	8
Upper Shirley Vineyards	17	undetermined
Williamsburg Winery	39	25

Exhibit B

1) NOAA - The Hurricane History Of Central And Eastern Virginia

2006 September 1 ERNESTO. The remnants of Tropical Storm Ernesto interacted with an unusually strong high pressure area over New England to generate strong winds, heavy rainfall, and storm surge related tidal flooding and damage. Five to eight inch rainfall amounts were common across central and eastern Virginia. This rainfall caused flooding in many areas, although no substantial river flooding resulted from the heavy rain. Wind gusts of 60 to 70 mph occurred on the Eastern Shore of Virginia, as well as areas adjacent to the Chesapeake Bay from Yorktown northward. Tides were particularly high from communities adjacent to the York River, northward through the Rappahannock River to tidal portions of the Potomac River. Tides of 4 to 5 feet above normal, combined with 6 to 8 foot waves, caused significant damage to homes, piers, bulkheads, boats, and marinas across portions of the Virginia Peninsula and Middle Peninsula near the Chesapeake Bay and adjacent tributaries. Similar damage also occurred in Chincoteague and Wachapreague on the Virginia Eastern Shore. At some locations on the Middle Peninsula, Northern Neck and Eastern Shore, the tidal flooding and damage rivaled that from Hurricane Isabel in 2003. Power outages were widespread across Virginia's Northern Neck and Middle Peninsula.

2) New Kent County Website Screenshot

The screenshot displays the New Kent County website's 'Airport' page. The page features a navigation menu with categories: Residents, Business, Your Government, Visitors, and How Do I?. The main content area includes a 'Welcome' message, 'Airport Information' with a list of details, and 'Contact Us' information for Duane Goss, Airport Manager. A 'Quick Links' section is also present. The footer contains contact information for the County Administration Building and the website's power provider, CivicPlus.

www.co.new-kent.va.us/index.aspx?NID=177

Engage your community - connect to news, events and information you care about. [View more information](#)

Residents Business Your Government Visitors How Do I?

New Kent
COUNTY VIRGINIA

Search...

Airport Advisory Commission

ePayments

Report a Concern

Notify Me

Real Estate Data

home > Your Government > Departments > Airport


Airport

Welcome
New Kent Airport (W96) is situated 15 minutes east of downtown Richmond and 30 minutes west of Williamsburg, Virginia. Our central location on the Virginia Peninsula serves the visitor well by allowing them easy access to our many natural and national treasures. Historic homes and battlefield sites dot the landscape, while world class golf and horse racing is just minutes away. This county airport provides the visitor a welcome relief from the congested airspace and road system of the Richmond area.

Airport Information

- Airport identifier - W96
- Field elevation - 123 feet
- Runway 10-28 dimensions - 3,600 feet by 75 feet
- Unicom frequency - 122.8
- 100LL available 24/7 with MasterCard, Visa, and Multiservice
- Hours of operation - 0800 to 1700
- RIC AWOS - (804) 236-1091
- Caution - deer on and in vicinity of airport
- Obstructions - trees

Contact Us [View All](#)



Duane Goss
Airport Manager
[Email](#)

6601 Terminal Rd.
Quinton, VA 23141

Ph: (804) 932-3984
Fax: (804) 932-3984

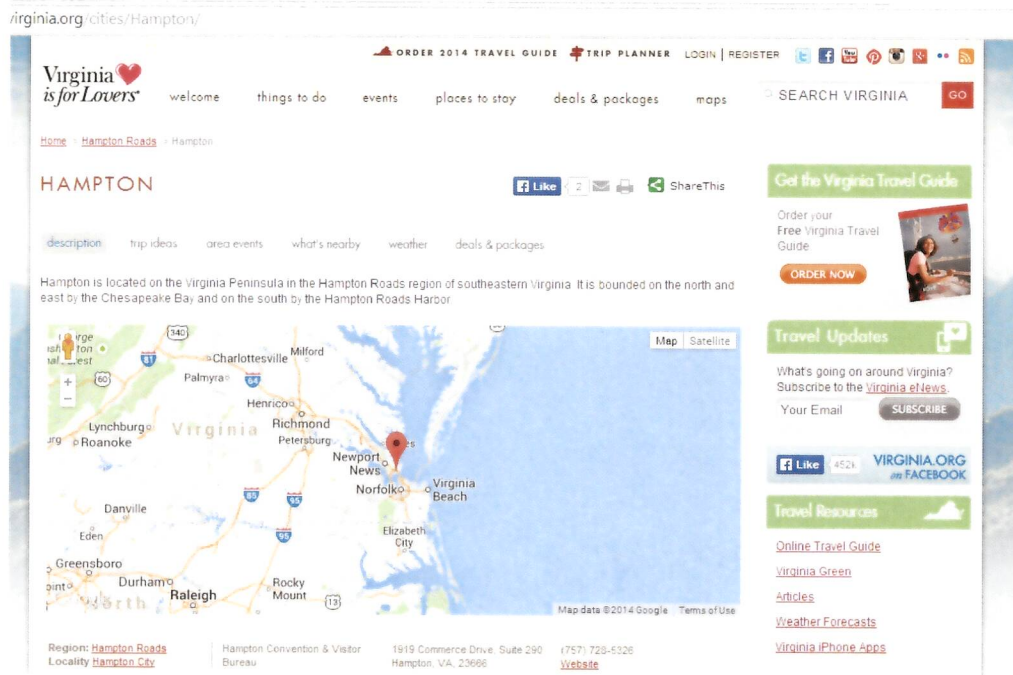
Quick Links [View All](#)

- [Local Weather](#)
- [W96 Airway](#)
- [New Kent Aviation, LLC](#)
- [Directions](#)
- [Local Attractions](#)

Home Contact Us Calendar Departments Site Map Accessibility Privacy Policy Copyright Notices Powered by CivicPlus

County Administration Building PO Box 150 12007 Courthouse Circle, New Kent VA 23124 (804) 966-9861

3) Virginia.org Screenshot



4) Excerpt from Yellow Pages featuring businesses using the name Peninsula

Area Code is 757 Unless Otherwise Specified

Virginia Peninsula Association Of Realtors Inc 1001 N Campus Pkwy Hampton 23666	599-5222
Virginia Peninsula Chamber Of Commerce 21 Enterprise Pkwy Ste 100 Hampton 23666	262-2000
Virginia Peninsula Public Service Authority 475 McLeans Cr Ste 3b Williamsburg 23185	259-9850
Virginia Peninsula Real Estate 5215 George Washington Mem Hwy Yorktown 23692	898-8287
Virginia Beach Consultants LLC	

PLACE NAMES ON THE VIRGINIA PENINSULA

P. BURWELL ROGERS

Bucknell University

THE VIRGINIA PENINSULA¹ is a long, narrow neck of land running down into Chesapeake Bay in a direction somewhat south of east. It is held tightly between the broad James and York rivers as they flow into the bay, and it varies in width from about ten to about twenty miles. The Peninsula is considered by Virginians to join the main part of the state at some indefinite point about forty or fifty miles from its lower tip--perhaps a little below West Point on the York and perhaps a little above the mouth of Chickahominy River on the James. Thus, it covers an area of roughly five hundred square miles. The Peninsula is deeply laced and cut by inlets and creeks, and it is heavily fringed with marshlands that are affected by the tides. Although these waters and lowlands are no barriers to modern highway and bridge builders, they were definite barriers to earlier residents of the Peninsula. Not only was the Peninsula effectively cut off from neighboring land areas, but sections of the Peninsula itself were separated from each other until only recently.

The place names of the Peninsula lend themselves naturally to consideration in an article of the length of this one: for the area is small, and its place names may be treated rather thoroughly in brief compass. The territory is so bounded geographically that there is no necessity for setting up artificial limits in order to restrict the subject. In addition, in the place names of the Peninsula there are evident certain characteristics peculiar to the locale, even though, at the same time, one may also see trends in naming which are common throughout the United States.²

When the ships guided by Captain Christopher Newport brought to the shores of Virginia the men who were to become the first permanent English settlers of America, on April 26, 1607 (O.S.), they landed on a sandy, barren point that they called Cape Henry, which lay opposite another point that they later called Cape Charles. Somewhat later, they rounded the point and entered the expanse of a great bay. They searched both visible shores for a landing place, and late in the evening of April 28 they landed on the lower tip of the Virginia Peninsula. After a few days they once more resumed their sailing and

1. *Peninsula* is capitalized throughout this article because to Virginians, who know only the Peninsula, it is a proper name applied exclusively to one particular peninsula.

2. Credit for many details in this paper is here given to a variety of articles appearing over a period of years in the *Newport News Daily Press* and to a number of acquaintances living on the Peninsula.

6) A news article from the Richmond Times-Dispatch making use of the name (highlighted)

285-acre Civil War site in Hanover to get federal protection

By CINDY HUANG

Richmond Times-Dispatch | Posted: Thursday, July 10, 2014 12:43 pm

The 62-acre Gaines' Mill Battlefield Unit of Richmond National Battlefield Park on Thursday acquired 285 acres of new land where Confederate Gen. Robert E. Lee won his first major victory.

U.S. Interior Secretary Sally Jewell accepted the transfer of the 285 acres on the Gaines' Mill Battlefield from the Civil War Trust for \$400,000.

"The public is going to own this now," said Civil War Trust President James Lighthizer.

Jewell toured the verdant farmland Thursday where Confederate soldiers, led by Lee, pushed Union troops into retreat about 150 years ago.

The battle was fought on June 27, 1862. It was the second of the Seven Days' Battles in which the Confederates sought to blunt federal forces that moved up the Virginia Peninsula with their sights set on Richmond.

Looking at a map of the battle, Jewell reflected on how different history books would be if the Union soldiers had taken Richmond.

The interior secretary said it's important to leave these significant historical locations "unimpaired for future generations."

"You can't tell the stories without the places," Jewell said.

She said the National Park Service must protect the "crown jewels" of American history.



GAINES' MILL

Dave Ruth, superintendent of Richmond National Battlefield Park, speaks at Gaines' Mill Battlefield Thursday, July 10, 2014. The Civil War Trust has sold 258 acres to the National Park Service adding to the existing Richmond National Battlefield Park site. At right are (L-R) O. James Lighthizer, president of the Civil War Trust, Va. Secretary of Natural Resources Molly Ward and U.S. Secretary of the Interior Sally Jewell.

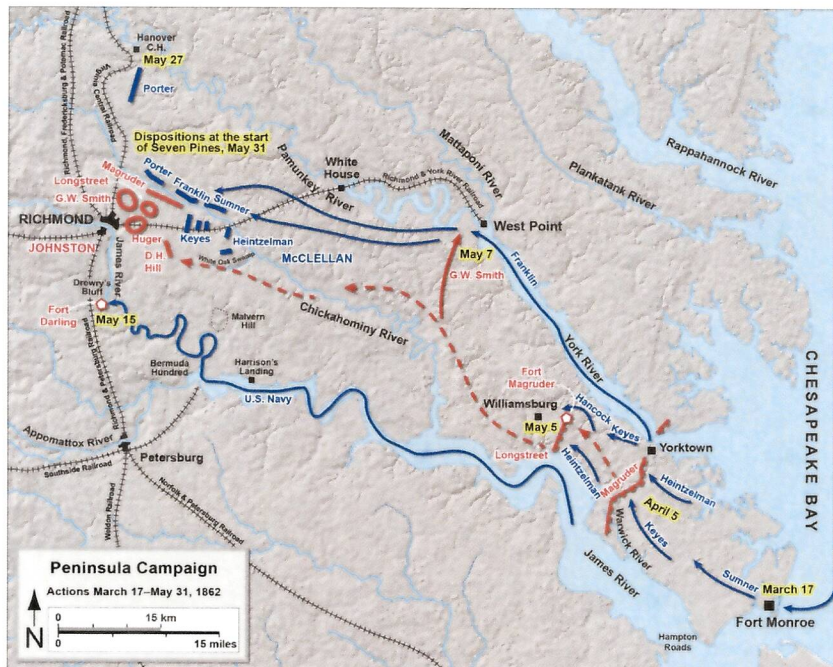
7) A screenshot of the Virginia Peninsula Chamber of Commerce website

The screenshot shows the homepage of the Virginia Peninsula Chamber of Commerce. At the top, there are social media icons for Facebook, LinkedIn, Twitter, RSS, and YouTube. To the right, there is a section for 'Annual Sponsors' featuring the logo for 'BON SECOURS VIRGINIA HEALTH SYSTEM' and a link to view all sponsors. The main navigation bar includes links for Home, The Chamber, Membership, Public Policy, Leadership, Programs, and Calendar, along with a search bar. Below the navigation, there is a 'New Members' section listing several organizations. A large banner image shows a historical sailing ship. Below the banner are four featured sections: Events: Featured, Peninsula Proud, Opportunities, and New to the Area?.

8) A map of the Virginia Peninsula from the Virginia Peninsula Wikipedia page



9) A map of the battles of the Peninsula Campaign



Courtesy of Hal Jespersen, www.cwmaps.com

EXHIBIT C
SUMMARY PAGE OF DATA

Maximum Temperature during Growing Season

	2013	2014	2015	2016	2017 Average	
Williamsburg	96	102	100	100	102	100
Surry	95	95	96	93	97	95
West Point	94	97	97	96	98	96

Average High Temperature during Growing Season

	2013	2014	2015	2016	2017 Average	
Williamsburg	81	82	87	84	85	84
Surry	79	78	82	78	80	80
West Point	80	80	84	80	82	81

Minimum Temperature during Growing Season

	2013	2014	2015	2016	2017 Average	
Williamsburg	33	33	42	33	33	35
Surry	33	29	36	33	43	35
West Point	30	29	34	30	37	32

Average Low Temperature during Growing Season

	2013	2014	2015	2016	2017 Average	
Williamsburg	63	62	67	65	66	65
Surry	61	59	62	63	65	62
West Point	60	60	64	61	62	61

Times Temperature was 100+

	2013	2014	2015	2016	2017 Average	
Williamsburg	0	1	2	5	5	2.6
Surry	0	0	0	0	0	0
West Point	0	0	0	0	0	0

Times Temperature was 90+

	2013	2014	2015	2016	2017 Average	
Williamsburg	41	44	76	66	58	57
Surry	14	15	31	17	10	17
West Point	20	28	47	39	26	32

Total Rainfall

	2013	2014	2015	2016	2017 Average	
Williamsburg	59.2	40.3	31.3	36.0	35.3	40.4
Surry	53.5	43.3	39.1	43.6	35.7	43.0
West Point	43.7	39.1	35.1	38.8	25.8	36.5

Total Rainfall - Harvest (8/21 - 11/8)

	2013	2014	2015	2016	2017 Average	
Williamsburg	5.8	6.1	6.0	8.9	8.1	7.0
Surry	12.0	7.7	11.6	12.5	8.0	10.4
West Point	4.6	3.4	2.5	10.4	2.9	4.8

Days w/ no Rain during Harvest

	2013	2014	2015	2016	2017 Average	
Williamsburg	60	58	62	61	54	59.0
Surry	59	55	47	52	44	51.4
West Point	60	46	71	62	52	58.2

Days with Precipitation during Harvest

	2013	2014	2015	2016	2017 Average	
Williamsburg	20	22	18	19	26	21.0
Surry	21	25	33	21	24	24.8
West Point	20	21	9	18	28	19.2

Days with over 1/2" Rain during Harvest

	2013	2014	2015	2016	2017 Average	
Williamsburg	4	4	5	7	4	4.8
Surry	6	4	9	7	5	6.2
West Point	2	2	1	4	1	2.0

Williamsburg, VA
High Temperature

	2013	2014	2015	2016	2017
1-Jan	48	53	51	53	60
2-Jan	42	46	55	53	51
3-Jan	41	39	42	53	51
4-Jan	48	42	75	46	62
5-Jan	50	62	60	37	44
6-Jan	51	64	48	50	41
7-Jan	53	23	39	57	30
8-Jan	55	35	28	55	26
9-Jan	69	48	48	62	28
10-Jan	62	51	37	69	42
11-Jan	53	69	46	46	57
12-Jan	57	57	51	55	73
13-Jan	60	62	44	41	66
14-Jan	66	53	33	62	44
15-Jan	46	57	39	69	53
16-Jan	46	42	57	46	46
17-Jan	48	53	46	55	59
18-Jan	44	51	53	41	64
19-Jan	53	53	57	62	57
20-Jan	62	62	62	57	51
21-Jan	57	50	48	64	51
22-Jan	37	24	53	44	51
23-Jan	35	33	46	35	55
24-Jan	33	26	-	32	57
25-Jan	28	35	55	37	68
26-Jan	35	46	59	42	69
27-Jan	42	64	41	37	51
28-Jan	53	28	44	37	51
29-Jan	71	26	44	44	53
30-Jan	75	35	48	51	44
31-Jan	71	48	42	71	60
1-Feb	41	55	51	78	57
2-Feb	39	64	64	62	60
3-Feb	46	48	42	75	41
4-Feb	44	44	57	64	42
5-Feb	55	48	48	50	57
6-Feb	57	41	41	48	66
7-Feb	48	46	60	46	75
8-Feb	53	35	71	51	78
9-Feb	50	-	66	51	59
10-Feb	51	37	39	44	44
11-Feb	62	35	46	37	69
12-Feb	60	35	51	33	82
13-Feb	51	42	33	35	57
14-Feb	51	60	50	33	51
15-Feb	62	48	30	39	53
16-Feb	44	50	23	62	48
17-Feb	37	44	35	57	60
18-Feb	46	64	39	51	73
19-Feb	57	71	26	51	78
20-Feb	48	60	24	71	73
21-Feb	46	77	39	71	60
22-Feb	42	62	51	59	64
23-Feb	42	71	42	51	78
24-Feb	59	60	30	73	80
25-Feb	46	44	48	64	80
26-Feb	57	48	37	53	55
27-Feb	62	51	41	50	64
28-Feb	51	39	39	71	75
29-Feb				73	

Low Temperature

	2013	2014	2015	2016	2017
1-Jan	42	28	30	39	46
2-Jan	35	33	39	33	48
3-Jan	28	21	42	37	46
4-Jan	24	17	62	32	42
5-Jan	28	37	32	19	32
6-Jan	35	21	30	24	30
7-Jan	30	12	19	39	17
8-Jan	28	15	12	44	8
9-Jan	37	28	24	48	8
10-Jan	37	30	23	44	15
11-Jan	35	51	21	32	42
12-Jan	51	37	37	30	51
13-Jan	50	33	32	28	42
14-Jan	46	37	32	28	39
15-Jan	42	37	32	39	41
16-Jan	39	30	30	44	39
17-Jan	33	32	28	33	44
18-Jan	28	26	39	21	44
19-Jan	30	28	35	17	39
20-Jan	37	37	33	19	41
21-Jan	30	21	33	28	48
22-Jan	23	12	32	26	50
23-Jan	17	12	32	30	42
24-Jan	19	10	-	24	32
25-Jan	17	19	37	24	41
26-Jan	17	23	35	39	44
27-Jan	24	28	30	32	35
28-Jan	32	15	26	30	30
29-Jan	46	12	23	30	35
30-Jan	57	6	28	26	28
31-Jan	37	15	23	39	26
1-Feb	24	24	24	51	37
2-Feb	19	39	30	42	39
3-Feb	33	37	24	46	32
4-Feb	26	35	33	42	26
5-Feb	42	35	24	30	32
6-Feb	33	30	17	28	33
7-Feb	33	28	28	30	48
8-Feb	42	30	46	35	55
9-Feb	30	-	39	35	30
10-Feb	26	32	33	30	23
11-Feb	42	24	32	26	44
12-Feb	42	21	28	19	48
13-Feb	42	35	19	19	33
14-Feb	33	35	24	15	28
15-Feb	35	30	17	24	35
16-Feb	32	26	15	41	30
17-Feb	26	28	21	39	26
18-Feb	19	33	19	30	37
19-Feb	37	37	12	24	48
20-Feb	32	41	6	44	44
21-Feb	24	48	10	50	39
22-Feb	33	37	33	44	44
23-Feb	39	37	24	44	55
24-Feb	37	35	21	46	51
25-Feb	30	30	23	46	53
26-Feb	30	28	28	33	37
27-Feb	41	28	24	26	37
28-Feb	39	21	21	35	51
29-Feb				44	

1-Mar	50	50	35	73	82
2-Mar	42	73	55	66	64
3-Mar	46	46	39	44	53
4-Mar	48	37	64	44	51
5-Mar	51	44	53	46	46
6-Mar	46	44	-	57	66
7-Mar	55	42	57	68	71
8-Mar	51	68	69	80	69
9-Mar	62	64	73	84	73
10-Mar	62	64	68	82	60
11-Mar	69	80	69	77	48
12-Mar	69	71	66	64	46
13-Mar	55	48	62	80	46
14-Mar	53	62	64	71	48
15-Mar	60	73	73	71	39
16-Mar	69	53	75	87	48
17-Mar	51	35	82	78	57
18-Mar	44	42	57	73	62
19-Mar	66	57	55	57	55
20-Mar	57	68	50	48	57
21-Mar	44	69	64	59	73
22-Mar	51	78	62	66	57
23-Mar	57	57	53	78	50
24-Mar	44	46	57	80	71
25-Mar	39	51	69	82	80
26-Mar	51	44	71	64	73
27-Mar	55	55	66	57	78
28-Mar	55	71	44	78	77
29-Mar	57	66	50	69	69
30-Mar	66	64	68	69	59
31-Mar	64	71	75	80	66
1-Apr	73	69	64	87	71
2-Apr	59	80	75	75	68
3-Apr	57	71	84	62	75
4-Apr	53	84	75	80	84
5-Apr	64	73	69	57	78
6-Apr	60	62	78	64	77
7-Apr	71	62	71	71	55
8-Apr	82	69	64	64	66
9-Apr	87	71	57	55	77
10-Apr	91	75	86	57	80
11-Apr	87	82	75	77	86
12-Apr	84	78	71	64	84
13-Apr	71	84	82	64	73
14-Apr	77	82	77	66	73
15-Apr	69	73	68	68	86
16-Apr	78	57	73	75	89
17-Apr	87	60	82	75	87
18-Apr	82	57	86	91	69
19-Apr	84	62	73	91	71
20-Apr	68	68	80	71	86
21-Apr	60	73	75	82	91
22-Apr	60	86	80	80	75
23-Apr	64	71	68		59
24-Apr	78	69	68		60
25-Apr	68	78	55		78
26-Apr	71	80	66		77
27-Apr	73	73	71	75	87
28-Apr	69	60	75	62	89
29-Apr	66	64	78	62	91
30-Apr	69	77	64	60	91
1-May	66	82	57	71	87
2-May	71	71	75	89	80

1-Mar	39	24	23	37	60
2-Mar	33	35	30	35	39
3-Mar	30	19	30	30	33
4-Mar	28	15	39	35	28
5-Mar	26	32	30	30	28
6-Mar	37	30	-	33	30
7-Mar	39	37	41	35	51
8-Mar	37	33	42	51	50
9-Mar	35	37	42	51	48
10-Mar	30	33	42	64	35
11-Mar	39	50	53	55	28
12-Mar	50	48	39	51	30
13-Mar	35	28	33	53	30
14-Mar	30	24	46	55	35
15-Mar	28	48	46	53	24
16-Mar	46	35	39	51	24
17-Mar	39	32	48	55	26
18-Mar	37	33	33	46	44
19-Mar	39	39	37	42	35
20-Mar	37	44	41	41	37
21-Mar	30	35	39	39	48
22-Mar	28	48	46	35	37
23-Mar	30	35	37	53	30
24-Mar	33	30	35	57	35
25-Mar	33	33	42	55	60
26-Mar	33	30	55	50	53
27-Mar	35	24	42	51	53
28-Mar	35	44	30	55	59
29-Mar	35	60	28	48	48
30-Mar	35	42	42	39	42
31-Mar	48	44	37	57	51
1-Apr	48	41	41	71	51
2-Apr	35	46	39	55	42
3-Apr	35	51	62	42	46
4-Apr	33	53	44	53	66
5-Apr	41	48	37	35	53
6-Apr	42	41	53	32	55
7-Apr	37	46	62	55	44
8-Apr	55	55	53	48	37
9-Apr	64	50	48	41	39
10-Apr	66	44	48	33	53
11-Apr	64	59	51	48	60
12-Apr	68	60	44	48	62
13-Apr	53	60	50	42	53
14-Apr	48	62	57	39	48
15-Apr	55	39	51	39	57
16-Apr	55	33	48	39	68
17-Apr	62	35	59	41	60
18-Apr	62	42	62	44	51
19-Apr	64	48	57	53	51
20-Apr	48	46	73	51	60
21-Apr	41	42	57	51	68
22-Apr	37	50	48	66	55
23-Apr	48	53	48		53
24-Apr	46	42	42		53
25-Apr	48	48	44		59
26-Apr	42	51	48		60
27-Apr	46	53	42	57	64
28-Apr	48	51	46	55	69
29-Apr	57	51	48	53	75
30-Apr	59	64	57	53	73
1-May	55	69	50	55	69
2-May	51	55	44	64	69

3-May	66	78	84	78	80
4-May	66	84	87	69	73
5-May	66	69	87	57	73
6-May	75	73	87	60	66
7-May	73	77	82	69	68
8-May	71	93	84	82	71
9-May	80	93	86	78	73
10-May	89	89	87	69	80
11-May	84	86	80	73	66
12-May	75	91	93	69	57
13-May	66	96	80	78	62
14-May	69	82	75	84	84
15-May	89	87	80	68	82
16-May	91	75	89	73	84
17-May	84	73	93	64	96
18-May	73	73	93	66	91
19-May	78	77	93	69	93
20-May	80	84	84	78	80
21-May	84	89	64	68	73
22-May	87	91	77	62	75
23-May	80	82	78	68	66
24-May	69	80	86	86	66
25-May	69	86	87	89	80
26-May	75	89	89	93	82
27-May	78	93	91	91	87
28-May	87	93	89	89	77
29-May	89	66	91	82	89
30-May	91	69	91	75	82
31-May	91	82	93	84	86
1-Jun	91	78	96	84	89
2-Jun	89	82	86	84	87
3-Jun	80	91	69	89	89
4-Jun	78	93	71	80	93
5-Jun	80	84	71	89	78
6-Jun	82	86	86	86	84
7-Jun	80	87	82	91	71
8-Jun	82	89	89	82	73
9-Jun	86	84	91	84	84
10-Jun	84	96	89	84	91
11-Jun	87	89	95	95	95
12-Jun	93	84	96	95	93
13-Jun	96	87	96	84	93
14-Jun	64	86	95	84	93
15-Jun	86	84	98	87	84
16-Jun	89	93	100	91	87
17-Jun	84	98	91	77	84
18-Jun	82	98	93	84	91
19-Jun	75	98	96	87	91
20-Jun	80	87	96	91	80
21-Jun	82	86	96	91	87
22-Jun	87	82	96	87	89
23-Jun	89	86	100	87	91
24-Jun	91	89	91	87	93
25-Jun	93	89	91	84	89
26-Jun	93	93	80	86	87
27-Jun	89	93	91	89	86
28-Jun	93	87	84	80	84
29-Jun	87	87	87	89	89
30-Jun	87	91	93	87	91
1-Jul	84	95	89	89	91
2-Jul	87	98	87	87	93
3-Jul	91	98	87	73	96
4-Jul	93	87	89	78	96

3-May	48	55	50	62	55
4-May	48	53	57	57	51
5-May	48	51	66	51	66
6-May	55	57	62	51	53
7-May	59	59	62	48	48
8-May	53	64	60	55	44
9-May	55	62	68	51	46
10-May	60	66	69	59	50
11-May	69	64	69	60	55
12-May	55	62	73	62	53
13-May	46	69	60	62	51
14-May	41	66	51	57	48
15-May	60	69	53	48	57
16-May	68	62	64	42	51
17-May	64	55	69	57	66
18-May	60	51	71	55	73
19-May	66	48	73	53	73
20-May	69	51	62	50	60
21-May	69	69	57	59	57
22-May	71	68	53	55	64
23-May	66	59	55	55	62
24-May	51	57	60	55	60
25-May	46	57	68	60	60
26-May	46	62	69	64	60
27-May	51	71	73	71	60
28-May	64	68	73	68	66
29-May	69	62	71	66	68
30-May	69	60	71	69	33
31-May	71	60	73	69	68
1-Jun	73	53	71	66	64
2-Jun	71	51	64	69	64
3-Jun	69	62	64	69	60
4-Jun	60	69	66	71	64
5-Jun	57	66	64	71	68
6-Jun	62	62	66	72	66
7-Jun	69	62	62	66	57
8-Jun	68	64	64	59	55
9-Jun	66	69	69	55	55
10-Jun	71	75	68	64	62
11-Jun	73	73	71	69	73
12-Jun	69	73	78	75	73
13-Jun	77	71	77	62	73
14-Jun	62	66	75	64	71
15-Jun	62	60	75	68	69
16-Jun	66	71	78	69	69
17-Jun	71	73	75	64	73
18-Jun	68	77	73	60	75
19-Jun	64	71	77	57	75
20-Jun	60	71	78	64	69
21-Jun	57	71	77	73	69
22-Jun	62	66	75	75	73
23-Jun	69	64	80	73	75
24-Jun	75	64	71	69	80
25-Jun	75	77	71	68	73
26-Jun	71	75	71	62	64
27-Jun	71	75	73	64	66
28-Jun	75	66	69	73	62
29-Jun	71	62	64	69	68
30-Jun	77	71	71	66	73
1-Jul	73	75	71	71	77
2-Jul	73	78	71	69	75
3-Jul	75	80	69	66	75
4-Jul	75	68	73	66	75

5-Jul	91	84	89	93	91
6-Jul	91	89	91	96	91
7-Jul	91	93	93	96	91
8-Jul	89	96	91	96	95
9-Jul	91	91	98	93	91
10-Jul	91	80	96	91	95
11-Jul	82	86	84	89	96
12-Jul	80	89	87	91	100
13-Jul	89	95	89	93	100
14-Jul	91	96	87	100	100
15-Jul	93	93	91	98	96
16-Jul	96	82	82	89	93
17-Jul	96	86	89	91	89
18-Jul	96	87	96	95	91
19-Jul	95	82	96	91	96
20-Jul	93	91	98	89	98
21-Jul	93	82	96	91	98
22-Jul	89	89	89	93	102
23-Jul	93	95	91	98	100
24-Jul	93	86	91	100	96
25-Jul	80	87	91	98	93
26-Jul	86	91	93	100	89
27-Jul	87	86	93	98	91
28-Jul	89	91	95	98	89
29-Jul	86	84	93	89	75
30-Jul	87	84	96	89	86
31-Jul	84	87	93	96	89
1-Aug	84	80	96	91	93
2-Aug	89	75	91	87	93
3-Aug	89	82	93	86	95
4-Aug	86	87	98	87	93
5-Aug	86	89	96	87	89
6-Aug	75	93	91	93	89
7-Aug	89	89	84	91	87
8-Aug	91	86	86	80	78
9-Aug	93	82	89	89	87
10-Aug	91	86	82	93	87
11-Aug	89	87	91	95	84
12-Aug	91	91	89	96	84
13-Aug	89	89	89	98	84
14-Aug	78	86	89	100	87
15-Aug	80	86	91	98	89
16-Aug	80	91	93	98	91
17-Aug	80	93	95	98	91
18-Aug	73	89	91	95	96
19-Aug	75	82	93	91	91
20-Aug	86	89	93	93	91
21-Aug	89	91	93	95	91
22-Aug	91	86	89	91	93
23-Aug	82	84	91	89	91
24-Aug	86	84	95	89	87
25-Aug	80	84	91	93	84
26-Aug	86	89	87	100	86
27-Aug	91	89	87	98	84
28-Aug	87	93	91	95	84
29-Aug	87	87	91	96	71
30-Aug	87	91	91	95	80
31-Aug	89	95	84	93	89
1-Sep	93	96	93	93	75
2-Sep	91	102	98	84	78
3-Sep	89	93	98	75	82
4-Sep	84	95	96	84	86
5-Sep	89	91	91	87	89

5-Jul	75	60	71	75	73
6-Jul	75	64	73	77	75
7-Jul	75	73	75	75	77
8-Jul	75	78	80	75	75
9-Jul	75	73	78	75	69
10-Jul	77	71	78	71	71
11-Jul	73	69	73	71	75
12-Jul	71	68	71	73	78
13-Jul	71	73	73	77	80
14-Jul	75	78	73	73	80
15-Jul	73	75	75	75	75
16-Jul	77	69	71	73	73
17-Jul	73	66	68	71	75
18-Jul	75	66	77	75	75
19-Jul	78	66	75	73	73
20-Jul	78	69	78	69	75
21-Jul	73	73	78	69	78
22-Jul	71	71	71	75	78
23-Jul	77	75	71	77	78
24-Jul	75	71	69	80	75
25-Jul	69	68	66	80	71
26-Jul	66	69	71	80	69
27-Jul	69	73	77	77	75
28-Jul	73	73	77	78	73
29-Jul	71	66	77	77	68
30-Jul	68	64	78	75	62
31-Jul	69	69	73	75	60
1-Aug	69	66	73	73	64
2-Aug	69	66	71	73	69
3-Aug	71	71	71	69	73
4-Aug	66	71	78	71	71
5-Aug	62	71	77	71	69
6-Aug	66	73	73	78	62
7-Aug	71	71	73	73	75
8-Aug	75	64	68	71	69
9-Aug	77	68	66	71	66
10-Aug	75	66	73	78	66
11-Aug	73	64	71	78	69
12-Aug	75	73	69	78	75
13-Aug	78	73	66	80	71
14-Aug	60	62	66	82	71
15-Aug	60	66	64	80	77
16-Aug	60	68	66	77	75
17-Aug	68	69	71	80	75
18-Aug	66	71	75	77	75
19-Aug	66	73	75	75	75
20-Aug	69	71	78	71	73
21-Aug	71	75	75	78	73
22-Aug	73	73	69	69	77
23-Aug	64	71	64	66	73
24-Aug	62	66	69	64	69
25-Aug	62	62	73	71	66
26-Aug	57	62	69	75	66
27-Aug	68	62	68	75	64
28-Aug	75	69	64	73	64
29-Aug	69	68	64	69	66
30-Aug	66	73	66	71	64
31-Aug	71	77	73	71	69
1-Sep	75	78	73	75	57
2-Sep	73	78	73	69	62
3-Sep	71	77	71	69	66
4-Sep	66	73	73	66	62
5-Sep	66	73	71	62	71

6-Sep	82	95	86	93	84
7-Sep	82	80	91	91	78
8-Sep	91	73	93	95	78
9-Sep	84	77	96	98	80
10-Sep	93	84	91	91	75
11-Sep	93	89	89	93	75
12-Sep	93	82	87	89	82
13-Sep	84	82	80	89	87
14-Sep	77	78	80	96	84
15-Sep	80	78	86	84	86
16-Sep	84	84	89	82	87
17-Sep	73	80	87	91	84
18-Sep	75	80	89	93	84
19-Sep	78	82	91	87	82
20-Sep	82	82	84	75	91
21-Sep	82	87	77	75	91
22-Sep	80	82	77	80	86
23-Sep	73	69	80	84	89
24-Sep	75	69	82	91	91
25-Sep	78	69	78	75	87
26-Sep	82	82	75	77	80
27-Sep	78	84	84	75	89
28-Sep	73	80	84	82	91
29-Sep	78	75	84	80	80
30-Sep	78	80	87	82	75
1-Oct	84	82	69	86	75
2-Oct	87	80	62	80	77
3-Oct	87	80	75	82	78
4-Oct	89	80	69	78	80
5-Oct	91	68	68	73	86
6-Oct	89	77	77	73	86
7-Oct	84	80	80	82	84
8-Oct	66	84	82	71	86
9-Oct	62	78	84	64	89
10-Oct	64	80	69	69	86
11-Oct	66	71	77	73	84
12-Oct	69	68	78	78	75
13-Oct	69	84	80	80	69
14-Oct	75	84	78	71	69
15-Oct	68	80	75	73	82
16-Oct	78	73	64	78	73
17-Oct	78	75	69	84	66
18-Oct	73	78	62	86	69
19-Oct	66	66	60	89	77
20-Oct	66	71	73	86	80
21-Oct	69	77	78	82	80
22-Oct	71	57	80	66	78
23-Oct	64	69	77	69	82
24-Oct	59	73	71	78	80
25-Oct	60	73	75	66	69
26-Oct	62	77	62	64	66
27-Oct	68	75	62	75	71
28-Oct	68	86	75	69	75
29-Oct	73	78	80	77	68
30-Oct	71	69	69	82	60
31-Oct	75	66	64	68	71
1-Nov	75	53	69	64	73
2-Nov	75	55	64	78	80
3-Nov	64	66	77	86	84
4-Nov	55	71	71	69	69
5-Nov	66	69	77	66	73
6-Nov	69	66	82	75	80
7-Nov	69	66	73	62	64

6-Sep	64	77	71	66	64
7-Sep	60	71	69	71	60
8-Sep	66	71	71	75	55
9-Sep	71	71	77	77	57
10-Sep	73	69	73	77	55
11-Sep	73	71	68	75	57
12-Sep	73	71	73	68	62
13-Sep	64	64	60	66	71
14-Sep	57	60	55	71	71
15-Sep	51	64	55	69	66
16-Sep	62	69	59	68	69
17-Sep	53	64	62	64	68
18-Sep	51	60	62	71	69
19-Sep	53	64	68	71	69
20-Sep	57	60	69	71	68
21-Sep	62	69	68	71	64
22-Sep	60	60	66	71	66
23-Sep	53	57	62	69	64
24-Sep	48	60	60	68	66
25-Sep	51	66	69	64	64
26-Sep	60	60	66	64	71
27-Sep	57	57	68	69	75
28-Sep	55	57	71	69	64
29-Sep	55	62	75	68	59
30-Sep	53	62	69	71	55
1-Oct	53	62	60	69	51
2-Oct	59	62	60	69	53
3-Oct	60	62	62	64	53
4-Oct	68	53	60	62	53
5-Oct	64	42	57	62	62
6-Oct	69	53	55	60	66
7-Oct	60	59	55	66	66
8-Oct	60	60	59	64	75
9-Oct	59	53	66	55	75
10-Oct	60	62	55	48	77
11-Oct	60	59	53	46	75
12-Oct	64	60	53	51	64
13-Oct	64	64	64	55	64
14-Oct	59	69	57	51	64
15-Oct	55	62	51	50	66
16-Oct	64	59	50	51	51
17-Oct	62	53	48	59	46
18-Oct	57	59	39	64	42
19-Oct	55	46	37	66	48
20-Oct	46	42	46	66	50
21-Oct	42	57	44	59	53
22-Oct	53	55	48	44	53
23-Oct	46	53	51	42	59
24-Oct	39	50	48	57	59
25-Oct	35	46	55	44	51
26-Oct	33	48	50	42	44
27-Oct	42	41	50	51	41
28-Oct	42	55	62	46	50
29-Oct	51	55	60	44	48
30-Oct	51	46	48	57	46
31-Oct	57	44	44	48	44
1-Nov	68	44	57	46	48
2-Nov	57	41	60	53	60
3-Nov	41	35	55	60	55
4-Nov	37	46	53	48	53
5-Nov	42	53	64	44	57
6-Nov	46	53	66	42	62
7-Nov	46	41	53	39	46

8-Nov	60	57	62	71	50
9-Nov	60	64	64	62	59
10-Nov	71	68	66	64	57
11-Nov	59	68	73	71	46
12-Nov	57	78	77	55	50
13-Nov	48	51	69	64	48
14-Nov	60	48	62	53	53
15-Nov	60	48	66	60	59
16-Nov	60	51	71	68	68
17-Nov	71	71	71	66	57
18-Nov	75	51	73	71	64
19-Nov	57	42	69	78	66
20-Nov	55	60	68	53	57
21-Nov	62	46	64	51	66
22-Nov	73	53	55	57	66
23-Nov	62	62	48	57	48
24-Nov	42	77	59	62	57
25-Nov	41	68	62	64	69
26-Nov	64	51	73	59	62
27-Nov	68	48	73	57	62
28-Nov	42	48	71	55	66
29-Nov	50	53	64	71	71
30-Nov	51	69	50	75	66
1-Dec	55	78	57	71	64
2-Dec	60	53	64	57	55
3-Dec	60	57	64	55	60
4-Dec	57	55	57	46	60
5-Dec	66	55	60	57	71
6-Dec	78	57	60	53	64
7-Dec	48	53	57	60	48
8-Dec	37	48	62	53	44
9-Dec	46	46	64	44	35
10-Dec	42	57	69	42	44
11-Dec	46	50	73	46	53
12-Dec	41	53	78	62	48
13-Dec	50	53	71	53	39
14-Dec	53	57	75	53	50
15-Dec	59	60	73	44	46
16-Dec	51	55	62	33	50
17-Dec	60	62	59	53	53
18-Dec	48	51	57	77	62
19-Dec	62	50	48	41	64
20-Dec	68	42	55	44	59
21-Dec	73	50	64	55	53
22-Dec	78	44	68	64	62
23-Dec	69	48	75	51	71
24-Dec	46	69	80	51	53
25-Dec	37	66	77	55	46
26-Dec	51	57	69	53	44
27-Dec	51	66	78	68	44
28-Dec	60	66	69	55	32
29-Dec	64	55	62	60	39
30-Dec	53	46	66	46	42
31-Dec	51	46	66	50	32

8-Nov	35	33	46	39	46
9-Nov	32	42	46	48	50
10-Nov	46	39	57	44	35
11-Nov	35	46	50	41	30
12-Nov	35	50	51	33	30
13-Nov	28	42	46	30	39
14-Nov	28	30	39	33	39
15-Nov	39	28	35	44	35
16-Nov	51	32	39	39	46
17-Nov	51	46	44	42	35
18-Nov	48	28	51	39	35
19-Nov	41	23	64	42	41
20-Nov	35	37	39	37	33
21-Nov	42	28	37	33	42
22-Nov	48	24	39	26	41
23-Nov	42	33	30	30	30
24-Nov	26	62	30	44	30
25-Nov	21	51	33	46	32
26-Nov	35	39	42	37	37
27-Nov	37	37	44	33	33
28-Nov	26	30	46	35	35
29-Nov	26	30	50	53	44
30-Nov	28	42	46	59	42
1-Dec	30	53	46	44	39
2-Dec	32	42	55	35	33
3-Dec	33	42	39	35	39
4-Dec	46	39	35	35	35
5-Dec	51	42	35	44	44
6-Dec	48	48	35	44	44
7-Dec	35	37	41	39	42
8-Dec	35	39	37	37	33
9-Dec	35	39	39	30	33
10-Dec	33	39	44	26	33
11-Dec	26	30	48	28	30
12-Dec	24	32	53	44	42
13-Dec	26	30	53	39	21
14-Dec	35	30	60	39	39
15-Dec	37	33	51	19	26
16-Dec	33	42	42	17	24
17-Dec	35	39	50	32	28
18-Dec	32	33	41	42	39
19-Dec	32	30	32	33	37
20-Dec	44	30	30	28	37
21-Dec	55	35	44	26	32
22-Dec	60	37	53	39	37
23-Dec	44	41	60	39	51
24-Dec	30	48	69	44	41
25-Dec	23	39	68	37	35
26-Dec	24	33	59	44	28
27-Dec	28	33	59	50	26
28-Dec	30	51	51	39	17
29-Dec	42	41	55	41	19
30-Dec	37	30	57	30	26
31-Dec	30	28	51	26	19

High Temp	96	102	100	100	102
Average	70	71	73	73	73
Times over 100	0	1	2	5	5
Times over 90	41	44	76	66	58

Low Temp	17	6	6	15	8
	51	51	54	53	53
Times below	50	59	45	42	39

Surry, VA

High Temperature

	2013	2014	2015	2016	2017
1-Jan	48	51	48	51	56
2-Jan	46	46	52	49	48
3-Jan	41	42	51	50	51
4-Jan	46	42	72	41	60
5-Jan	51	64	58	30	43
6-Jan	48	66	50	43	39
7-Jan	51	23	37	52	25
8-Jan	57	37	24	51	23
9-Jan	68	50	44	57	28
10-Jan	57	64	34	67	41
11-Jan	60	71	46	43	54
12-Jan	59	57	58	52	71
13-Jan	68	62	43	39	62
14-Jan	69	59	33	57	42
15-Jan	48	57	39	56	47
16-Jan	51	44	52	59	44
17-Jan	48	53	44	44	58
18-Jan	44	46	54	32	61
19-Jan	55	51	53		54
20-Jan	62	64	61	34	49
21-Jan	57	55	49	35	50
22-Jan	42	24	51	30	51
23-Jan	33	32	43	29	55
24-Jan	33	23	54	37	53
25-Jan	28	36	50	47	65
26-Jan	33	48	49	55	66
27-Jan	39	61	35	47	49
28-Jan	51	29	39	44	48
29-Jan	73	22	41	50	51
30-Jan	75	32	43	51	38
31-Jan	71	49	40	65	60
1-Feb	42	53	48	73	58
2-Feb	39	58	59	53	57
3-Feb	44	55	38	75	41
4-Feb	44	39	53	63	38
5-Feb	57	47	47	44	48
6-Feb	55	42	37	43	63
7-Feb	51	44	56	43	74
8-Feb	53	40	68	47	72
9-Feb	48	43	66	47	61
10-Feb	51	42	37	42	43
11-Feb	64	31	37	33	66
12-Feb	60	41	48	31	81
13-Feb	50	42	29	30	53
14-Feb	50	58	48	26	52
15-Feb	60	46	27	33	50
16-Feb	44	46	20	59	45
17-Feb	33	37	30	51	57
18-Feb	46	62	33	45	72
19-Feb	57	68	26	48	73
20-Feb	48	64	20	68	66
21-Feb	46	76	48	72	57
22-Feb	46	60	54	56	62
23-Feb	44	67	36	47	62

Low Temperature

	2013	2014	2015	2016	2017
44	28	26		36	45
35	41	38		29	47
28	23	39		32	46
26	17	51		28	39
28	33	28		18	28
35	24	27		23	33
28	12	18		39	19
26	14	13		42	10
35	24	19		46	12
33	30	17		42	12
32	57	14		28	40
53	37	37		27	51
51	33	31		25	45
48	39	30		25	39
44	33	30		36	41
42	28	32		44	38
33	28	27		31	56
28	24	36		25	45
26	24	31			39
37	37	32		29	39
30	24	31		26	47
21	15	26		25	49
19	21	27		27	42
21	12	35		23	38
15	14	30		21	39
15	22	30		36	42
19	31	29		30	32
26	16	27		27	27
46	6	19		30	31
57	-3	28		23	27
37	15	20		37	25
26	20	25		49	41
19	39	30		42	41
30	37	21		42	37
24	34	23		42	27
37	35	24		29	39
33	30	14		25	30
41	27	23		28	47
42	26	43		33	59
28	26	37		33	30
24	30	31		28	23
42	24	27		21	41
46	23	27		18	49
46	34	18		18	35
33	34	16		15	27
30	29	15		21	37
33	24	13		33	29
26	27	20		37	24
17	32	16		34	37
28	34	11		31	48
30	42	5		40	45
24	43	5		47	38
35	33	35		44	42
42	30	25		44	57

24-Feb	53	58	26	70	75
25-Feb	42	40	43	62	79
26-Feb	64	43	33	47	53
27-Feb	60	50	40	46	63
28-Feb	51	32	32	67	75
29-Feb				69	
1-Mar	48	46	35	67	81
2-Mar	41	70	48	63	57
3-Mar	44	44	42	43	49
4-Mar	48	32	70	40	46
5-Mar	53	41	50	44	43
6-Mar	48	37	30	50	63
7-Mar	51	42	50	63	72
8-Mar	50	62	66	75	66
9-Mar	60	57	68	80	73
10-Mar	64	68	70	80	58
11-Mar	69	76	71	73	45
12-Mar	69	68	56	59	42
13-Mar	55	44	59	77	43
14-Mar	51	57	64	63	48
15-Mar	59	70	68	66	37
16-Mar	75	51	72	80	46
17-Mar	53	35	78	76	56
18-Mar	46	40	53	70	60
19-Mar	64	54	51	52	49
20-Mar	53	65	49	45	56
21-Mar	42	66	58	54	67
22-Mar	51	74	54	64	55
23-Mar	55	56	46	77	46
24-Mar	44	43	55	79	66
25-Mar	46	47	67	79	78
26-Mar	50	41	66	50	69
27-Mar	53	51	64	55	78
28-Mar	53	72	40	74	74
29-Mar	57	68	46	64	65
30-Mar	64	64	58	63	57
31-Mar	64	65	69	79	64
1-Apr	71	72	57	84	68
2-Apr	57	77	71	72	63
3-Apr	57	71	81	58	72
4-Apr	53	85	70	77	68
5-Apr	60	71	64	58	76
6-Apr	55	55	74	62	74
7-Apr	71	70	74	68	56
8-Apr	78	68	64	59	64
9-Apr	84	65	55	51	71
10-Apr	89	71	82	54	80
11-Apr	84	77	72	72	84
12-Apr	80	76	70	62	75
13-Apr	71	80	76	57	69
14-Apr	78	78	77	59	68
15-Apr	69	72	61	60	83
16-Apr	75	49	70	66	86
17-Apr	84	53	75	68	86
18-Apr	78	53	79	84	65
19-Apr	84	51	72	85	68
20-Apr	66	58	78	67	83

39	33	21	44	49
30	27	16	43	53
30	27	27	33	36
39	25	20	24	33
37	23	23	53	49
33	25	23	46	
37	29	29	34	60
32	21	30	35	37
28	14	39	30	30
26	29	28	34	28
35	32	19	29	29
39	36	16	31	28
35	31	38	33	49
33	33	41	47	50
28	29	44	51	45
37	47	53	61	38
55	46	36	52	29
37	25	28	49	30
30	21	45	50	31
33	43	40	53	34
48	34	33	51	24
39	32	50	51	22
37	34	35	54	25
42	38	36	44	42
37	40	37	41	36
30	30	37	39	37
21	46	43	37	47
26	33	33	30	41
30	29	30	50	32
35	29	40	54	29
30	27	59	63	57
33	22	39	49	53
30	40	30	50	53
30	59	26	53	58
32	41	33	49	48
46	42	33	37	41
51	35	39	51	50
37	42	31	71	49
33	49	58	49	45
32	49	40	41	42
42	49	31	47	67
35	42	43	35	52
33	46	58	27	54
53	51	49	52	44
62	47	45	42	33
64	39	45	40	38
64	53	47	33	51
68	54	39	44	58
55	53	43	52	67
44	59	56	43	52
55	39	48	37	45
57	33	46	39	57
55	32	50	36	64
62	41	57	37	61
60	45	50	39	53
46	47	62	49	53
41	45	50	47	58

21-Apr	55	65	69	79	87
22-Apr	57	81	76	79	74
23-Apr	60	67	63	73	56
24-Apr	77	66	63	67	60
25-Apr	64	75	54	82	69
26-Apr	69	75	58	86	70
27-Apr	71	71	65	77	83
28-Apr	69	57	67	60	85
29-Apr	68	65	73	60	88
30-Apr	69	79	60	59	86
1-May	60	78	56	70	76
2-May	66	68	69	85	76
3-May	68	75	79	73	74
4-May	62	79	80	65	65
5-May	60	65	81	57	72
6-May	75	69	80	57	62
7-May	77	76	79	67	64
8-May	73	88	75	79	70
9-May	78	89	82	75	
10-May	86	87	81	68	70
11-May	84	81	78	71	64
12-May	75	86	87	69	54
13-May	66	90	76	74	60
14-May	68	85	67	80	78
15-May	87	83	75	65	75
16-May	89	74	83	68	79
17-May	84	69	86	64	90
18-May	77	67	88	63	86
19-May	80	70	87	66	89
20-May	80	77	79	68	79
21-May	82	85	68	65	70
22-May	84	87	72	59	72
23-May	78	77	73	64	65
24-May	73	73	80	80	66
25-May	68	79	82	85	76
26-May	73	84	84	87	78
27-May	78	88	87	87	
28-May	84	90	86	84	72
29-May	87	66	86	80	82
30-May	87	68	86	75	78
31-May	89	76	88	81	69
1-Jun	89	72	89	81	76
2-Jun	89	79	83	80	81
3-Jun	78	85	67	84	
4-Jun	77	88	71		81
5-Jun	78	86	70		77
6-Jun	78	81	80		
7-Jun	84	81	77		63
8-Jun	82	84	84		68
9-Jun	84	81	84		79
10-Jun	82	90	86		85
11-Jun	84	90	89	89	89
12-Jun	91	81	90	91	88
13-Jun	95	84	94	78	89
14-Jun	75	81	90	81	89
15-Jun	84	81	93	84	80
16-Jun	87	90	95	86	83

39	41	42	41	64
44	52	45	62	55
42	45	38	55	53
44	42	40	49	53
39	52	42	46	58
42	50	36	62	62
42	46	42	58	60
57	49	45	56	67
59	65	54	54	73
55	68	49	54	71
48	55	41	54	74
46	51	46	66	62
50	49	50	62	54
48	49	58	57	63
55	52	52	52	66
57	53	54	49	50
51	64	54	49	45
55	62	63	57	43
57	66	64	50	
69	59	68	58	64
50	58	68	59	53
46	68	59	62	52
42	63	48	62	50
55	66	45	57	46
68	58	56	49	55
62	50	62	40	55
60	48	68	55	63
66	45	67	55	69
68	47	57	54	69
68	62	55	48	60
68	64	50	58	58
69	61	48	56	64
51	54	48	55	62
44	54	55	53	59
44	57	57	60	58
46	68	68	63	57
59	66	68	69	
66	61	65	63	68
66	56	62	64	65
69	53	63	69	66
69	48	68	69	66
69	41	64	65	67
71	53	63	67	63
60	65	64	69	
53	64	62		74
57	60	61		69
69	56	57		
69	56	55		60
66	62	69		55
71	70	66		54
71	68	70		61
66	70	71	79	68
69	68	72	71	69
60	64	71	64	71
59	59	69	60	71
64	62	73	73	69
68	69	71	70	67

17-Jun	84	92	86	71	82
18-Jun	84	94	90	79	82
19-Jun	77	93	91	83	88
20-Jun	78	83	91	86	78
21-Jun	80	82	91	88	83
22-Jun	84	77	91	83	87
23-Jun	86	81	96	81	87
24-Jun	87	85	85	83	87
25-Jun	91	87	87	79	83
26-Jun	91	87	80	80	82
27-Jun	91	86	87	85	80
28-Jun	91	82	80	78	79
29-Jun	87	81	84	83	85
30-Jun	82	85	88	83	87
1-Jul	82	88	84	86	86
2-Jul	87	92	85	82	87
3-Jul	84	91	82	73	89
4-Jul	89	82	86	77	88
5-Jul	89	79	84	88	86
6-Jul	89	81	85	90	85
7-Jul	89	88	88	91	
8-Jul	86	91	88	89	89
9-Jul	87	90	92	87	85
10-Jul	89	80	88		88
11-Jul	86	82	86		
12-Jul	80	86	83		87
13-Jul	87	89	82		94
14-Jul	86	90	85		95
15-Jul	89	88	85		89
16-Jul	93	77	77		87
17-Jul	93	83	85		86
18-Jul	93	82	90		87
19-Jul	91	79	91		90
20-Jul	89	81	92	85	93
21-Jul	89	80	91	85	93
22-Jul	89	84	85	89	97
23-Jul	89	88	84	91	93
24-Jul	91	82	85	93	93
25-Jul	78	81	85	92	86
26-Jul	82	86	87	92	85
27-Jul	84	81	87	91	89
28-Jul	87	86	86	91	84
29-Jul	84	79	89	84	73
30-Jul	84	79	93	85	80
31-Jul	82	82	88	88	83
1-Aug	82	75	92	87	87
2-Aug	87	71	89	82	89
3-Aug	87	75	91	81	90
4-Aug	82	80	93	82	89
5-Aug	82	83	93	83	86
6-Aug	71	87	91	89	84
7-Aug	87	82	81	83	83
8-Aug	87	81	78	79	
9-Aug	91	74	83	84	
10-Aug	93	82	81	87	
11-Aug	89	82	83	90	
12-Aug	91	86	84	90	

71	72	68	66	70
64	70	72	59	77
60	69	73	55	74
59	69	72	59	68
64	63	70	69	68
71	60	72	72	71
73	59	70	70	74
73	71	67	67	75
71	72	68	69	69
69	69	69	61	61
73	61	63	62	63
71	57	59	70	61
75	60	68	66	62
75	68	68	67	69
71	73	71	69	75
73	75	67	70	74
73	66	71	66	73
71	60	68	66	72
73	55	69	74	71
71	65	70	74	74
73	72	73	74	
73	70	72	73	76
75	69	71	72	68
73	68	68		68
71	65	69		
69	67	66		81
73	73	70		78
69	72	72		78
73	69	66		74
73	63	64		74
73	61	68		71
75	61	71		73
77	67	72		71
73	70	74	72	72
75	69	68	68	76
75	69	65	71	75
73	69	66	73	81
69	66	61	76	76
64	63	60	76	73
64	72	69	77	68
69	70	68	75	69
71	62	68	74	73
66	59	68	75	68
66	60	70	73	64
69	65	64	72	59
69	66	69	71	62
71	69	69	73	68
66	68	73	73	70
60	68	71	71	69
64	67	70	70	70
69	67	70	74	61
71	61	63	72	71
75	63	62	71	
75	63	64	71	
73	61	68	74	
73	70	65	75	
75	70	61	75	

13-Aug	89	84	85	92	
14-Aug	75	81	84	93	
15-Aug	77	81	86	92	
16-Aug	77	84	88	93	
17-Aug	75	84	91	92	
18-Aug	82	85	87	86	
19-Aug	75	82	87	84	
20-Aug	82	85	89	86	
21-Aug	87	88	86	87	
22-Aug	87	83	84	83	
23-Aug	86	79	89	82	
24-Aug	80	77	89	82	
25-Aug	78	78	85	79	
26-Aug	82	81	81	93	
27-Aug	89	83	80	90	
28-Aug	86	87	87	87	76
29-Aug	82	82	88	88	72
30-Aug	84	87	91	89	75
31-Aug	87	88	75	89	83
1-Sep	87	92	90	87	73
2-Sep	87	95	95	80	76
3-Sep	86	89	93	74	75
4-Sep	82	87	93	70	80
5-Sep	87	87	86	81	84
6-Sep	80	89	78	87	78
7-Sep	78	79	88	83	71
8-Sep	86	74	90	88	72
9-Sep	84	79	91	92	72
10-Sep	87	80	88	86	70
11-Sep	87	85	86	86	72
12-Sep	89	76	86	82	76
13-Sep	82	80	76	84	81
14-Sep	73	72	77	90	79
15-Sep	77	72	84	79	80
16-Sep	84	80	84	78	81
17-Sep	71	74	83	84	80
18-Sep	73	77	86	86	79
19-Sep	77	77	91	86	79
20-Sep	78	78	86	74	82
21-Sep	80	82	79	73	83
22-Sep	75	77	72	78	81
23-Sep	68	64	78	78	82
24-Sep	71	69	81	84	84
25-Sep	75	68	71	72	80
26-Sep	75	73	70	74	77
27-Sep	73	77	80	73	84
28-Sep	73	76	83	79	83
29-Sep	71	72	83	77	72
30-Sep	73	72	82	78	69
1-Oct	80	77	68	80	68
2-Oct	84	77	63	75	57
3-Oct	84	76	81	76	
4-Oct	87	75	70	73	
5-Oct	89	64	64	69	
6-Oct	86	72	71	71	
7-Oct	86	75	79	78	
8-Oct	64	80	82	71	75

60	59	62	78	
60	63	57	79	
59	66	58	77	
69	69	63	75	
71	68	67	76	
69	70	70	73	
66	69	73	72	
69	70	70	70	
71	70	64	72	
66	68	62	67	
64	65	62	64	
59	59	70	61	
53	58	67	67	
64	58	64	77	
73	64	60	75	
66	70	55	74	72
64	68	59	68	66
66	70	70	69	65
73	74	69	69	67
71	75	66	73	57
69	74	68	67	61
64	69	69	68	64
64	68	67	64	59
60	72	70	61	68
57	71	64	62	63
60	69	68	68	58
68	70	73	73	53
66	67	70	73	55
69	66	67	74	56
69	68	66	72	57
69	65	55	67	63
57	62	49	65	68
51	59	47	65	67
60	63	51	66	65
51	59	57	69	68
51	55	55	64	69
51	57	62	69	69
55	55	62	70	69
55	68	68	70	67
60	58	67	71	64
51	57	66	71	65
46	61	64	68	62
48	64	67	65	65
57	57	63	62	66
53	57	68	61	71
53	52	69	67	74
53	58	71	67	65
50	59	68	68	59
48	56	60	71	57
59	59	59.3	67	53
57	55	58.9	66	50
66	50	58.6	63	
62	38	58.9	62	
64	42	57.6	63	
64	51	55.1	61	
60	63	53.6	66	
60	49	55.4	64	73

9-Oct	64	73	81	64	83
10-Oct	66	79	67	49	83
11-Oct	64	79	70	65	76
12-Oct	73	65	81	70	67
13-Oct	75	81	75	72	67
14-Oct	71	82	76	64	68
15-Oct	66	80	73	65	77
16-Oct	75	71	59		69
17-Oct	78	72	68		59
18-Oct	71	75	57		56
19-Oct	68	62	59		60
20-Oct	64	67	70		62
21-Oct	69	72	76		72
22-Oct	66	56	78		72
23-Oct	62	66	74	64	77
24-Oct	57	68	71	71	73
25-Oct	55	69	74	59	62
26-Oct	60	72	61	59	59
27-Oct	66	71	62	71	66
28-Oct	66	81	75	64	70
29-Oct	69	75	78	70	67
30-Oct	71	64	68	78	55
31-Oct	75	61	65	64	65
1-Nov	75	50	68	61	70
2-Nov	71	50	63	73	75
3-Nov	62	61	72	78	76
4-Nov	51	70	66	65	66
5-Nov	66	67	74	59	68
6-Nov	71	66	77	66	75
7-Nov	69	59	74	55	65
8-Nov	55	56	59	63	49
9-Nov	57	58	68	58	57
10-Nov	69	64	70	57	51
11-Nov	57	67	68	64	41
12-Nov	57	72	75	52	48
13-Nov	44	51	65	57	47
14-Nov	57	43	57	53	50
15-Nov	64	44	64	55	54
16-Nov	64	50	70	62	62
17-Nov	71	72	71	60	52
18-Nov	73	49	71	64	63
19-Nov	55	39	67	72	64
20-Nov	51	57	65	47	52
21-Nov	62	42	66	48	63
22-Nov	73	51	53	52	60
23-Nov	62	62	44	52	44
24-Nov	42	73	57	59	51
25-Nov	41	63	60	63	63
26-Nov	66	50	72	52	56
27-Nov	68	43	76	51	57
28-Nov	42	41	71	53	62
29-Nov	46	47	69	71	65
30-Nov	50	66	50	74	63
1-Dec	55	71	54	69	58
2-Dec	57	52	64	54	53
3-Dec	60	56	61	50	57
4-Dec	62	52	56	45	55

62	55	62	55	72
60	58	54.8	47	74
62	59	52.5	44	73
66	59	50.2	49	65
57	64	59.5	53	65
55	59	54.4	49	66
64	54	47.3	48	65
60	50	47.4		51
57	54	43.9		47
57	40	39.1		50
44	35	36.8		56
42	50	38.8		57
50	51	42.3		51
48	48	46.7		52
39	44	49.4	38	58
35	39	44.9	53	57
33	43	51.9	44	48
39	35	52.5	41	42
41	44	51.4	46	39
48	54	61.2	45	46
48	43	58.1	42	49
55	41	47	56	43
66	37	40.8	46	42
55	37	49.8	44	50
42	29	58.4	51	59
37	42	51.9	58	54
44	50	50.5	47	54
44	50	62.6	42	56
51	40	64.3	40	60
35	30	53.8	37	46
33	38	44.1	35	45
46	33	44.3	48	52
35	46	55.6	44	35
37	50	46.5	39	30
26	41	48	31	29
26	30	42.3	29	38
30	27	34.6	31	41
48	26	30.6	43	36
51	45	37	37	44
53	25	41.5	40	32
42	19	50.7	38	32
37	31	62.7	40	37
44	23	38.8	34	30
44	19	37.3	29	35
37	30	38.6	24	41
26	62	27.8	29	29
19	49	26.3	38	27
33	37	30	46	30
35	32	38	35	37
28	27	41.1	29	31
24	25	43.9	32	31
30	32	48.5	49	42
32	49	44.5	61	41
28	42	44.6	44	37
30	41	53.6	33	32
48	40	43.1	32	38
51	42		37	32

5-Dec	68	54	57	51	70
6-Dec	78	62	63	48	62
7-Dec	53	50	52		50
8-Dec	42	44	59	41	43
9-Dec	46	42	62	40	35
10-Dec	46	51	69	39	40
11-Dec	46	45	70	45	48
12-Dec	39	51	75	59	43
13-Dec	48	51	73	52	36
14-Dec	60	53	75	49	51
15-Dec	55	55	69	43	42
16-Dec	51	60	66	30	47
17-Dec	60	58	67	50	49
18-Dec	46	45	57	75	60
19-Dec	60	44	45	41	62
20-Dec	69	39	55	41	56
21-Dec	73	45	62	51	47
22-Dec	80	46	64	60	60
23-Dec	71	48	71	47	69
24-Dec	44	67	79	50	55
25-Dec	37	66	76	49	43
26-Dec	44	55	67	51	40
27-Dec	51	59	74	66	40
28-Dec	59	64	66	54	26
29-Dec	64	56	77	57	36
30-Dec	53	41	64	44	43
31-Dec	50	41	63	48	30

53	44	31.3	42	43
41	40	30.4	43	43
37	40	36.8		38
35	36	35.2	38	34
33	36	36.6	29	32
26	28	43.5	23	30
26	28	45.1	26	29
26	26	52.3	43	36
32	27	54.5	45	21
37	28	58.7	39	29
30	31	49.2	23	26
37	36	40.8	23	23
28	28	48.9	30	28
30	27	37.6	41	36
44	27	29.7	33	39
51	28	26.6	28	39
62	34	36.6	24	31
44	38	50.4	36	36
32	48	59.3	29	51
24	35	66.6	41	40
26	30	67.3	37	33
26	30	56.7	43	27
26	44	56.6	48	26
44	40	48.8	37	17
37	27	54.1	37	16
30	25	56	31	27
27	100	48.9	45	19

Max	95	95	96	93	97
Average	69	67	70	67	67
Times over 100	0	0	0	0	0
Times over 90	14	15	31	17	10

15	-3	5	15	10
50	48	50	51	51

**West Point, VA
High Temperature**

	2013	2014	2015	2016	2017
1-Jan	47	52	50	49	57
2-Jan	43	46	52	51	50
3-Jan	39	36	51	54	49
4-Jan	47	41	72	39	62
5-Jan	48	64	56	32	41
6-Jan	51	65	44	43	37
7-Jan	50	23	36	51	30
8-Jan	52	37	28	49	24
9-Jan	66	48	46	58	26
10-Jan	59	47	35	67	41
11-Jan	51	70	46	43	53
12-Jan	53	57	44	51	70
13-Jan	62	62	42	36	60
14-Jan	65	55	32	57	43
15-Jan	46	58	38	55	48
16-Jan	46	41	53	60	44
17-Jan	46	52	43	41	59
18-Jan	40	50	53	34	61
19-Jan	52	54	54	28	54
20-Jan	60	62	60	34	49
21-Jan	53	44	45	36	50
22-Jan	33	23	50	32	50
23-Jan	33	32	43	32	52
24-Jan	30	26	43	39	53
25-Jan	28	37	54	47	64
26-Jan	37	45	53	57	67
27-Jan	40	65	40	49	48
28-Jan	50	28	43	45	48
29-Jan	70	25	43	49	50
30-Jan	74	35	46	51	40
31-Jan	71	49	41	67	56
1-Feb	40	53	53	73	54
2-Feb	39	64	61	55	56
3-Feb	41	50	41	72	37
4-Feb	43	44	56	62	40
5-Feb	55	49	45	44	55
6-Feb	54	39	41	45	63
7-Feb	45	47	59	42	72
8-Feb	48	43	70	46	73
9-Feb	47	43	59	45	60
10-Feb	48	38	37	42	42
11-Feb	62	35	45	34	63
12-Feb	60	37	49	30	80
13-Feb	49	40	31	31	52
14-Feb	50	56	49	28	49
15-Feb	61	46	28	42	52
16-Feb	41	48	23	58	43
17-Feb	35	42	32	52	56
18-Feb	45	63	38	45	72
19-Feb	53	71	25	46	72
20-Feb	47	56	22	66	67
21-Feb	44	74	36	66	57
22-Feb	39	63	53	54	59
23-Feb	42	71	39	46	74
24-Feb	55	58	31	70	74
25-Feb	45	44	48	59	78
26-Feb	55	45	36	47	52
27-Feb	60	50	36	46	60
28-Feb	48	36	36	66	72
29-Feb					
1-Mar	48	52	35	66	80
2-Mar	41	72	52	63	62
3-Mar	43	43	40	44	48
4-Mar	47	36	61	40	46
5-Mar	51	44	53	42	43
6-Mar	45	39	32	51	61
7-Mar	52	40	55	65	71
8-Mar	50	67	66	77	66
9-Mar	60	60	71	81	71
10-Mar	58	63	65	79	57
11-Mar	66	79	67	72	45
12-Mar	67	71	62	60	44
13-Mar	54	45	59	74	44
14-Mar	50	60	63	58	45
15-Mar	59	72	70	67	36
16-Mar	68	51	73	80	45
17-Mar	46	34	78	74	55
18-Mar	42	42	55	68	62
19-Mar	64	52	54	50	50
20-Mar	55	66	45	43	55
21-Mar	43	70	63	54	65
22-Mar	49	76	62	64	53
23-Mar	56	58	52	74	47
24-Mar	42	44	53	77	69
25-Mar	41	48	63	79	77
26-Mar	50	43	74	62	65
27-Mar	52	54	66	54	77
28-Mar	52	72	44	73	72
29-Mar	56	68	49	64	67
30-Mar	62	65	68	63	56
31-Mar	61	68	73	77	64
1-Apr	70	69	62	80	66
2-Apr	55	76	74	71	63
3-Apr	55	71	82	58	68
4-Apr	50	75	75	77	80
5-Apr	64	70	68	54	75

Low Temperature

	2013	2014	2015	2016	2017
1-Jan	40	24	29	34	40
2-Jan	32	28	38	26	45
3-Jan	23	18	37	32	44
4-Jan	20	14	46	28	39
5-Jan	24	34	27	14	24
6-Jan	31	23	28	15	28
7-Jan	27	13	18	34	17
8-Jan	23	12	12	40	8
9-Jan	34	28	21	41	-2
10-Jan	31	29	16	40	6
11-Jan	30	45	14	29	42
12-Jan	48	34	38	24	52
13-Jan	47	32	32	20	39
14-Jan	46	37	30	21	37
15-Jan	41	33	31	34	37
16-Jan	38	32	27	42	37
17-Jan	33	33	23	32	42
18-Jan	28	30	34	17	37
19-Jan	30	30	31	14	30
20-Jan	32	36	28	16	35
21-Jan	24	23	30	25	45
22-Jan	17	7	29	23	47
23-Jan	12	6	28	27	40
24-Jan	14	14	36	15	34
25-Jan	13	22	29	12	32
26-Jan	11	19	34	33	41
27-Jan	22	29	31	26	34
28-Jan	32	17	23	22	29
29-Jan	44	5	18	24	31
30-Jan	59	-1	27	20	22
31-Jan	35	9	22	41	19
1-Feb	23	23	22	46	30
2-Feb	14	40	29	37	31
3-Feb	28	39	19	38	27
4-Feb	23	32	30	41	24
5-Feb	35	35	24	26	29
6-Feb	28	32	13	23	27
7-Feb	25	27	23	26	49
8-Feb	40	29	43	32	55
9-Feb	27	32	36	33	27
10-Feb	20	29	33	28	17
11-Feb	41	21	31	22	41
12-Feb	44	16	27	15	40
13-Feb	40	34	17	16	27
14-Feb	30	36	19	12	23
15-Feb	30	29	16	21	31
16-Feb	32	24	14	36	25
17-Feb	27	25	18	31	19
18-Feb	22	33	7	24	30
19-Feb	35	34	12	17	41
20-Feb	30	32	0	43	35
21-Feb	25	39	1	47	32
22-Feb	32	34	31	42	39
23-Feb	36	32	24	41	53
24-Feb	36	30	19	43	43
25-Feb	27	26	16	42	52
26-Feb	26	22	24	28	35
27-Feb	35	23	18	21	29
28-Feb	34	20	16	25	44
29-Feb					
1-Mar	37	18	18	29	59
2-Mar	28	31	28	32	33
3-Mar	30	19	25	21	28
4-Mar	25	8	39	32	22
5-Mar	21	32	28	24	25
6-Mar	34	31	18	28	25
7-Mar	38	36	16	26	51
8-Mar	35	34	34	49	48
9-Mar	32	32	37	48	37
10-Mar	24	28	37	60	34
11-Mar	37	41	49	46	24
12-Mar	46	43	34	43	23
13-Mar	30	25	29	48	24
14-Mar	30	19	44	50	31
15-Mar	24	41	39	47	23
16-Mar	39	33	32	45	25
17-Mar	36	31	41	49	19
18-Mar	33	32	29	36	42
19-Mar	37	38	31	36	34
20-Mar	52	41	39	37	30
21-Mar	31	51	38	34	46
22-Mar	27	39	41	26	37
23-Mar	23	32	35	50	25
24-Mar	29	30	35	56	33
25-Mar	33	30	40	59	56
26-Mar	34	29	51	48	49
27-Mar	37	20	41	48	49
28-Mar	30	47	32	52	53
29-Mar	31	61	28	36	43
30-Mar	31	41	39	29	36
31-Mar	43	41	32	55	50
1-Apr	39	35	37	68	49
2-Apr	30	40	38	51	45
3-Apr	23	50	62	39	45
4-Apr	28	52	37	50	63
5-Apr	39	48	31	29	46

6-Apr	56	60	77	60	73
7-Apr	70	63	70	67	53
8-Apr	80	68	64	57	64
9-Apr	85	69	55	50	72
10-Apr	89	73	84	54	79
11-Apr	85	81	75	73	84
12-Apr	81	77	70	63	79
13-Apr	70	83	80	57	71
14-Apr	72	80	73	60	69
15-Apr	64	73	69	61	83
16-Apr	73	53	73	68	86
17-Apr	81	57	80	70	82
18-Apr	79	54	84	85	67
19-Apr	83	65	72	85	66
20-Apr	66	66	80	68	82
21-Apr	56	71	72	77	85
22-Apr	56	84	79	77	67
23-Apr	62	66	65	71	58
24-Apr	76	64	65	68	57
25-Apr	67	72	54	80	72
26-Apr	68	79	64	86	73
27-Apr	71	74	66	72	83
28-Apr	67	61	71	58	86
29-Apr	62	62	77	59	88
30-Apr	63	77	63	58	86
1-May	66	79	57	68	85
2-May	68	71	74	84	76
3-May	66	76	83	75	73
4-May	65	82	85	63	69
5-May	63	67	87	56	72
6-May	71	73	85	55	65
7-May	74	77	80	65	64
8-May	70	90	83	73	64
9-May	77	90	84	75	69
10-May	86	84	85	68	75
11-May	82	83	75	65	62
12-May	71	90	91	68	54
13-May	63	94	76	74	60
14-May	67	79	72	80	81
15-May	86	86	79	63	77
16-May	88	74	89	68	81
17-May	81	71	88	62	92
18-May	69	70	91	65	88
19-May	79	74	89	70	91
20-May	80	81	79	74	75
21-May	82	86	62	64	71
22-May	84	89	76	59	73
23-May	79	79	75	67	65
24-May	69	77	84	82	64
25-May	68	83	86	86	77
26-May	72	88	88	88	79
27-May	76	91	90	87	83
28-May	84	91	89	85	74
29-May	87	66	88	80	84
30-May	88	71	88	74	79
31-May	88	79	90	82	81
1-Jun	90	77	90	83	85
2-Jun	87	81	82	82	82
3-Jun	80	90	66	85	85
4-Jun	78	90	68	80	88
5-Jun	79	83	71	88	75
6-Jun	78	83	83	84	79
7-Jun	75	85	79	86	69
8-Jun	79	87	88	77	70
9-Jun	84	85	88	81	81
10-Jun	84	92	85	80	88
11-Jun	84	90	92	91	92
12-Jun	89	81	93	91	91
13-Jun	92	85	95	79	92
14-Jun	76	82	92	79	91
15-Jun	83	83	96	82	82
16-Jun	87	92	96	87	84
17-Jun	84	95	87	76	84
18-Jun	80	97	92	80	88
19-Jun	74	94	92	84	89
20-Jun	79	85	93	87	79
21-Jun	81	85	93	89	85
22-Jun	84	81	93	84	88
23-Jun	85	83	97	81	89
24-Jun	89	87	86	84	89
25-Jun	91	90	87	81	85
26-Jun	91	89	81	81	83
27-Jun	87	91	86	85	82
28-Jun	90	84	81	81	80
29-Jun	86	85	85	84	86
30-Jun	85	88	91	82	89
1-Jul	82	93	88	85	89
2-Jul	86	97	84	82	89
3-Jul	88	94	85	69	92
4-Jul	88	84	85	77	89
5-Jul	88	82	86	90	86
6-Jul	89	87	90	91	87
7-Jul	89	93	91	92	88
8-Jul	86	95	89	91	90
9-Jul	89	89	95	89	87
10-Jul	89	80	90	85	88
11-Jul	81	86	77	86	93
12-Jul	80	88	86	86	95
13-Jul	86	92	87	90	95

6-Apr	31	34	51	24	53
7-Apr	33	43	61	50	43
8-Apr	54	53	50	40	30
9-Apr	61	47	47	37	31
10-Apr	65	37	47	31	30
11-Apr	64	59	46	45	59
12-Apr	66	52	35	50	56
13-Apr	49	58	42	38	51
14-Apr	41	65	54	30	43
15-Apr	52	39	50	30	52
16-Apr	51	35	46	31	66
17-Apr	59	32	58	30	56
18-Apr	58	39	60	37	46
19-Apr	64	46	51	44	47
20-Apr	45	46	65	44	57
21-Apr	34	42	48	40	60
22-Apr	31	45	44	62	54
23-Apr	45	54	43	52	51
24-Apr	40	39	34	45	51
25-Apr	45	47	36	48	56
26-Apr	38	54	43	63	58
27-Apr	43	52	38	56	58
28-Apr	40	47	46	53	68
29-Apr	54	51	43	51	73
30-Apr	57	63	52	52	70
1-May	50	70	46	52	69
2-May	50	56	41	60	64
3-May	42	50	46	60	49
4-May	40	46	50	55	44
5-May	41	45	66	51	63
6-May	54	55	64	50	52
7-May	57	55	59	49	47
8-May	50	64	54	53	39
9-May	55	61	67	47	37
10-May	57	68	70	57	45
11-May	65	64	68	57	52
12-May	49	58	69	59	51
13-May	38	67	56	56	46
14-May	34	65	50	49	42
15-May	59	67	49	45	51
16-May	64	60	65	36	45
17-May	59	53	69	54	61
18-May	59	48	71	53	69
19-May	63	43	72	50	70
20-May	66	49	57	44	57
21-May	69	67	54	57	53
22-May	71	64	53	54	61
23-May	67	62	50	54	60
24-May	52	58	54	51	58
25-May	45	54	65	56	58
26-May	41	61	68	59	59
27-May	42	71	74	68	54
28-May	62	66	73	66	63
29-May	68	62	71	60	66
30-May	68	58	69	65	64
31-May	67	56	71	65	65
1-Jun	72	49	70	62	39
2-Jun	69	45	63	66	56
3-Jun	70	63	62	69	52
4-Jun	53	66	63	68	56
5-Jun	49	64	62	69	66
6-Jun	53	57	66	71	59
7-Jun	69	55	59	65	54
8-Jun	67	62	64	54	49
9-Jun	65	72	69	48	47
10-Jun	72	73	63	54	58
11-Jun	73	69	69	63	67
12-Jun	66	73	77	68	69
13-Jun	70	70	74	62	71
14-Jun	62	64	72	58	69
15-Jun	58	57	75	62	65
16-Jun	64	65	76	67	64
17-Jun	71	75	74	61	71
18-Jun	65	76	74	56	73
19-Jun	63	69	75	51	73
20-Jun	55	72	72	56	68
21-Jun	50	70	77	71	69
22-Jun	58	66	73	72	72
23-Jun	69	60	78	71	74
24-Jun	74	59	69	68	74
25-Jun	74	76	68	64	67
26-Jun	72	73	71	58	57
27-Jun	70	73	70	58	59
28-Jun	74	65	64	70	51
29-Jun	71	58	58	67	63
30-Jun	76	67	71	64	71
1-Jul	72	75	71	66	75
2-Jul	72	79	70	68	72
3-Jul	73	79	66	64	70
4-Jul	74	63	71	64	69
5-Jul	74	63	68	74	71
6-Jul	74	63	73	75	73
7-Jul	75	73	75	74	73
8-Jul	73	79	79	74	72
9-Jul	74	76	77	72	64
10-Jul	75	72	77	67	64
11-Jul	73	69	72	66	73
12-Jul	71	65	65	68	76
13-Jul	69	74	68	74	78

14-Jul	88	96	87	95	97
15-Jul	91	92	86	93	92
16-Jul	93	82	82	86	90
17-Jul	94	85	88	88	87
18-Jul	93	86	91	92	90
19-Jul	92	80	93	88	95
20-Jul	91	85	94	86	95
21-Jul	89	81	91	87	96
22-Jul	87	88	86	91	98
23-Jul	89	94	86	93	96
24-Jul	87	83	88	95	92
25-Jul	78	84	88	95	86
26-Jul	82	88	89	95	86
27-Jul	84	85	89	93	91
28-Jul	86	88	89	94	86
29-Jul	82	82	89	86	73
30-Jul	83	81	93	87	81
31-Jul	82	86	89	89	86
1-Aug	83	77	92	88	90
2-Aug	88	77	89	84	89
3-Aug	88	82	92	82	90
4-Aug	84	87	94	84	89
5-Aug	84	89	93	82	85
6-Aug	74	88	87	90	86
7-Aug	88	86	79	88	86
8-Aug	89	84	83	80	78
9-Aug	93	80	86	86	82
10-Aug	89	84	79	90	83
11-Aug	86	84	90	91	83
12-Aug	92	85	85	92	85
13-Aug	88	85	86	94	82
14-Aug	78	84	87	95	84
15-Aug	78	83	87	94	83
16-Aug	78	86	91	95	89
17-Aug	80	88	92	94	88
18-Aug	72	84	91	89	92
19-Aug	77	82	90	90	88
20-Aug	85	86	90	90	88
21-Aug	88	89	87	91	88
22-Aug	89	84	86	84	91
23-Aug	82	84	87	83	86
24-Aug	84	80	91	85	83
25-Aug	80	81	88	90	83
26-Aug	84	85	85	96	80
27-Aug	90	88	84	91	79
28-Aug	86	90	87	88	79
29-Aug	86	84	87	90	69
30-Aug	85	88	90	92	78
31-Aug	89	93	86	91	84
1-Sep	92	95	92	86	71
2-Sep	90	81	94	81	73
3-Sep	87	81	94	73	78
4-Sep	83	78	92	77	82
5-Sep	88	79	87	82	87
6-Sep	80	79	86	90	78
7-Sep	81	81	90	88	75
8-Sep	88	85	92	92	75
9-Sep	81	79	95	96	73
10-Sep	91	67	90	87	71
11-Sep	92	68	86	87	73
12-Sep	91	69	86	85	78
13-Sep	81	78	78	86	84
14-Sep	74	82	78	92	80
15-Sep	78	81	84	77	82
16-Sep	81	72	86	80	84
17-Sep	71	76	85	86	82
18-Sep	74		86	89	80
19-Sep	77		88	83	80
20-Sep	80		81	73	87
21-Sep	82		73	76	86
22-Sep	78		74	80	80
23-Sep	70		78	85	86
24-Sep	74		80	85	87
25-Sep	79		77	73	84
26-Sep	77		74	73	78
27-Sep	75		81	72	87
28-Sep	73		84	77	85
29-Sep	76		86	78	75
30-Sep	77		86	78	69
1-Oct	83	79	69	82	70
2-Oct	86	79	61	75	73
3-Oct	86	77	71	78	74
4-Oct	88	78	66	75	76
5-Oct	91	67	68	70	81
6-Oct	89	75	74	72	83
7-Oct	86	80	79	79	82
8-Oct	65	82	81	69	84
9-Oct	63	76	85	63	86
10-Oct	65	77	68		86
11-Oct	68	67	73		77
12-Oct	70	66	77	71	71
13-Oct	69	81	80	77	67
14-Oct	72	84	75	66	66
15-Oct	70	80	73	68	81
16-Oct	77	73	65	74	72
17-Oct	78	75	68	81	61
18-Oct	72	77	57	83	67
19-Oct	68	64	59	86	73
20-Oct	64	69	72	83	77

14-Jul	72	79	73	71	74
15-Jul	70	73	74	75	71
16-Jul	75	67	69	71	69
17-Jul	72	63	63	70	68
18-Jul	72	61	76	73	72
19-Jul	77	64	75	69	68
20-Jul	77	68	77	66	73
21-Jul	70	73	77	65	75
22-Jul	68	70	68	71	75
23-Jul	75	71	65	75	76
24-Jul	72	70	65	78	74
25-Jul	68	67	63	77	67
26-Jul	61	67	68	79	67
27-Jul	69	74	73	74	70
28-Jul	70	74	73	73	73
29-Jul	66	66	75	73	68
30-Jul	60	63	77	68	61
31-Jul	63	66	70	71	55
1-Aug	70	65	67	72	62
2-Aug	68	67	71	72	69
3-Aug	70	72	67	68	72
4-Aug	64	70	78	66	71
5-Aug	60	68	76	68	62
6-Aug	67	71	71	76	54
7-Aug	67	67	72	68	69
8-Aug	76	63	63	66	64
9-Aug	78	68	61	68	60
10-Aug	76	63	70	73	57
11-Aug	74	61	71	75	63
12-Aug	73	73	66	76	75
13-Aug	76	72	64	79	68
14-Aug	59	63	59	79	66
15-Aug	57	60	57	73	73
16-Aug	53	63	60	73	71
17-Aug	65	65	63	76	71
18-Aug	68	68	70	72	73
19-Aug	67	72	75	69	71
20-Aug	68	68	76	67	68
21-Aug	68	73	72	72	70
22-Aug	72	73	63	63	75
23-Aug	66	70	57	60	67
24-Aug	60	64	64	58	63
25-Aug	58	61	68	63	60
26-Aug	53	58	65	74	61
27-Aug	68	57	62	68	58
28-Aug	73	67	56	65	59
29-Aug	68	63	58	62	65
30-Aug	64	66	61	65	63
31-Aug	72	76	70	64	66
1-Sep	75	77	70	73	55
2-Sep	75	77	70	68	57
3-Sep	70	65	70	67	64
4-Sep	64	61	70	59	53
5-Sep	61	55	66	55	66
6-Sep	59	58	64	64	62
7-Sep	57	56	64	64	55
8-Sep	67	66	66	72	50
9-Sep	70	60	76	75	55
10-Sep	72	53	73	75	48
11-Sep	74	58	67	65	50
12-Sep	72	65	66	63	60
13-Sep	63	55	55	60	68
14-Sep	53	51	48	68	68
15-Sep	46	52	50	64	64
16-Sep	58	59	52	63	64
17-Sep	48	61	55	59	62
18-Sep	44		57	65	66
19-Sep	49		62	69	68
20-Sep	53		63	69	64
21-Sep	59		65	71	59
22-Sep	55		66	68	60
23-Sep	49		54	64	57
24-Sep	44		50	61	59
25-Sep	48		67	60	59
26-Sep	57		66	61	69
27-Sep	51		66	66	73
28-Sep	50		73	64	62
29-Sep	50		72	65	49
30-Sep	47		69	68	50
1-Oct	49	59	60	68	45
2-Oct	54	59	59	63	44
3-Oct	55	57	58	58	44
4-Oct	65	53	59	54	43
5-Oct	61	39	56	59	57
6-Oct	69	49	53	58	58
7-Oct	64	56	53	64	61
8-Oct	58	57	53	63	73
9-Oct	59	47	64	54	73
10-Oct	60	56	52		75
11-Oct	62	58	49		71
12-Oct	66	59	46	54	61
13-Oct	64	62	63	50	61
14-Oct	57	66	52	46	63
15-Oct	53	63	45	43	64
16-Oct	62	60	45	45	46
17-Oct	62	52	42	54	38
18-Oct	55	57	35	63	36
19-Oct	54	40	32	64	39
20-Oct	42	38	44	59	42

21-Oct	69	75	77	80	76
22-Oct	70	58	80	62	75
23-Oct	62	69	75	67	78
24-Oct	57	71	68	75	75
25-Oct	58	73	71	62	65
26-Oct	61	74	60	60	61
27-Oct	66	74	62	72	69
28-Oct	67	85	76	64	72
29-Oct	71	79	75	74	67
30-Oct	73	65	63	80	58
31-Oct	74	61	60	67	67
1-Nov	76	52	65	61	71
2-Nov	75	52	60	75	77
3-Nov	62	66	73	82	80
4-Nov	54	70	72	64	64
5-Nov	65	69	75	62	68
6-Nov	70	66	79	68	75
7-Nov	68	63	68	58	62
8-Nov	59	58	56	67	47
9-Nov	60	61	61	60	58
10-Nov	70	66	63	60	51
11-Nov	59	69	66	66	41
12-Nov	54	74	73	51	48
13-Nov	46	50	65	61	46
14-Nov	61	46	56	51	50
15-Nov	60	48	63	60	55
16-Nov	63	53	68	65	64
17-Nov	71	69	66	63	53
18-Nov	73	47	70	69	65
19-Nov	55	41	67	75	65
20-Nov	53	59	63	50	54
21-Nov	62	43	61	49	63
22-Nov	75	52	52	52	62
23-Nov	63	63	43	55	45
24-Nov	38	75	55	61	53
25-Nov	40	66	58	64	67
26-Nov	64	50	68	54	38
27-Nov	66	47	68	53	60
28-Nov	42	45	67	54	63
29-Nov	48	51	57	70	68
30-Nov	48	68	45	74	64
1-Dec	54	77	54	68	58
2-Dec	59	50	62	55	53
3-Dec	60	58	60	52	59
4-Dec	61	51	53	44	56
5-Dec	67	50	55	54	69
6-Dec	73	57	54	50	60
7-Dec	48	49	52	55	46
8-Dec	37	43	57	49	
9-Dec	45	47	61	41	
10-Dec	41	54	64	39	
11-Dec	47	49	69	44	
12-Dec	38	51	74	57	
13-Dec	49	51	70	50	
14-Dec	54	57	73	49	
15-Dec	56	57	69	43	
16-Dec	48	55	59	31	
17-Dec	56	60	54	51	
18-Dec	48	47	54	72	
19-Dec	63	46	45	39	63
20-Dec	67	39	50	41	54
21-Dec	72	48	61	52	47
22-Dec	78	42	63	63	60
23-Dec	68	48	71	48	68
24-Dec	46	68	75	50	50
25-Dec	37	67	77	51	43
26-Dec	52	57	68	52	39
27-Dec	52	65	76	67	38
28-Dec	61	64	65	53	26
29-Dec	65	52	56	58	37
30-Dec	54	45	58	45	39
31-Dec	51	43	59	49	27

Max	94	97	97	96	98
Average High	68	69	71	69	70
Times over 100	0	0	0	0	0
Times over 90	20	28	47	39	26

21-Oct	36	37	39	54	43
22-Oct	49	54	41	39	47
23-Oct	47	53	47	39	52
24-Oct	38	42	42	53	52
25-Oct	33	37	52	37	45
26-Oct	30	41	48	34	38
27-Oct	38	34	46	43	34
28-Oct	36	54	62	39	47
29-Oct	44	56	51	37	48
30-Oct	48	42	40	50	44
31-Oct	50	37	33	40	40
1-Nov	69	39	54	38	41
2-Nov	58	41	56	50	56
3-Nov	34	30	48	52	50
4-Nov	38	46	43	37	53
5-Nov	39	53	61	34	53
6-Nov	51	52	63	34	59
7-Nov	44	35	53	32	44
8-Nov	30	29	36	30	43
9-Nov	28	37	37	43	47
10-Nov	44	33	55	41	52
11-Nov	35	39	44	33	26
12-Nov	36	46	42	27	26
13-Nov	25	41	41	24	35
14-Nov	22	33	29	26	35
15-Nov	41	29	28	36	33
16-Nov	51	28	31	31	41
17-Nov	52	46	37	32	28
18-Nov	47	30	41	31	28
19-Nov	39	20	62	34	40
20-Nov	34	33	32	34	26
21-Nov	41	23	28	22	34
22-Nov	48	20	37	17	38
23-Nov	37	30	25	22	25
24-Nov	27	62	22	32	24
25-Nov	21	49	27	39	26
26-Nov	38	39	31	29	30
27-Nov	36	34	35	25	27
28-Nov	26	26	37	27	28
29-Nov	22	26	45	52	35
30-Nov	25	41	42	57	33
1-Dec	25	50	44	35	29
2-Dec	27	41	53	29	25
3-Dec	30	41	37	30	30
4-Dec	43	32	28	31	27
5-Dec	51	41	25	38	37
6-Dec	48	45	27	41	43
7-Dec	35	36	32	32	36
8-Dec	34	38	28	32	
9-Dec	35	37	30	27	
10-Dec	31	38	36	20	
11-Dec	24	28	44	24	
12-Dec	21	27	44	38	
13-Dec	23	26	46	34	
14-Dec	33	26	56	36	
15-Dec	36	32	40	15	
16-Dec	30	33	32	11	
17-Dec	36	38	41	30	
18-Dec	31	31	38	38	
19-Dec	32	29	26	30	43
20-Dec	48	25	23	22	27
21-Dec	55	32	30	18	24
22-Dec	63	34	48	29	30
23-Dec	45	40	59	28	51
24-Dec	30	48	63	37	40
25-Dec	22	34	66	31	33
26-Dec	20	29	55	41	24
27-Dec	23	30	55	46	23
28-Dec	29	49	47	32	16
29-Dec	40	41	50	34	17
30-Dec	34	27	52	25	22
31-Dec	28	23	47	19	17

Min	11	-1	0	11	-2
Average Low	48	48	50	48	50

West Point, VA

Table with 6 columns: Rainfall, 2013, 2014, 2015, 2016, 2017. Rows list dates from 1-Jan to 21-May.

Williamsburg, VA

Table with 6 columns: Rainfall, 2013, 2014, 2015, 2016, 2017. Rows list dates from 1-Jan to 21-May.

Surry, VA

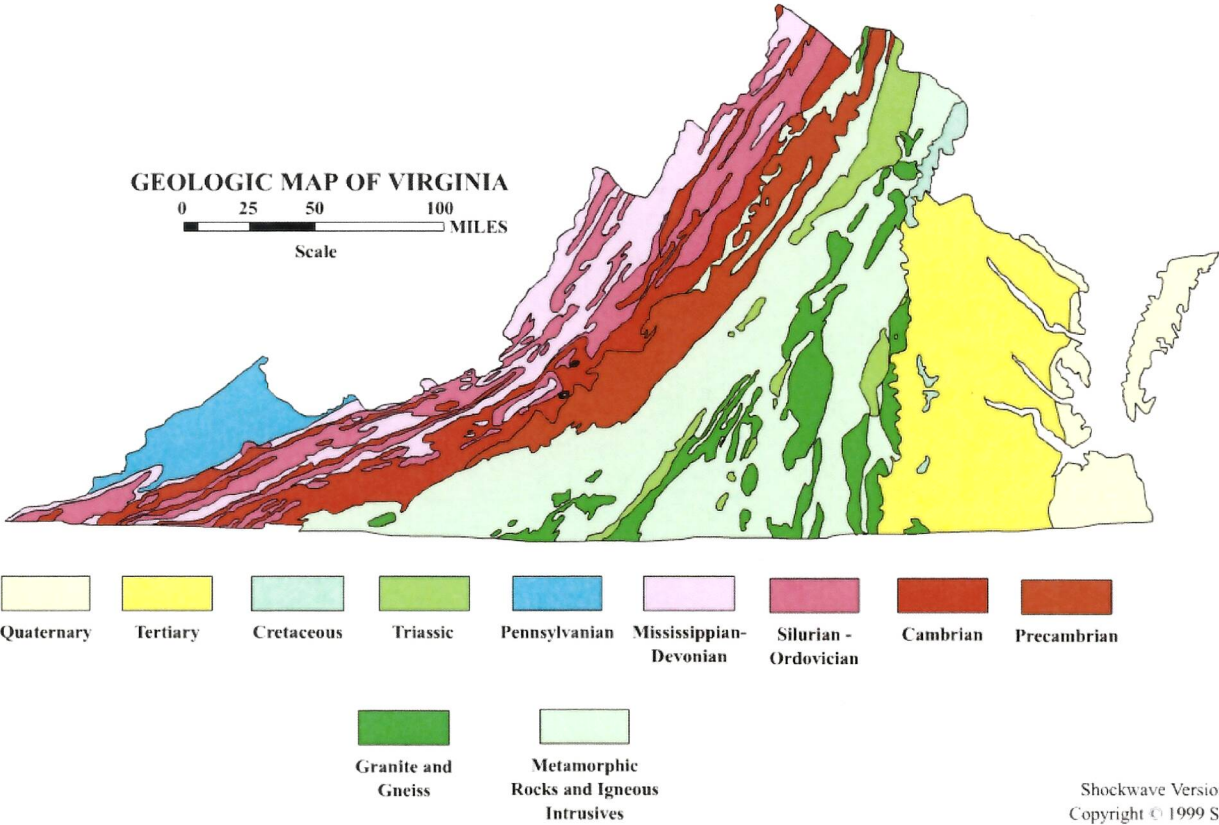
Table with 6 columns: Rainfall, 2013, 2014, 2015, 2016, 2017. Rows list dates from 1-Jan to 21-May.

Table with 5 columns: Date (e.g., 22-May), and four numerical columns (e.g., 0.12, 0.13, 0.53). The table lists data for every day from May 22nd to October 13th.

Table with 5 columns: Date (e.g., 22-May), and four numerical columns (e.g., 0.02, 0.28, 0.00, 0.05, 0.67). The table lists data for every day from May 22nd to October 13th.

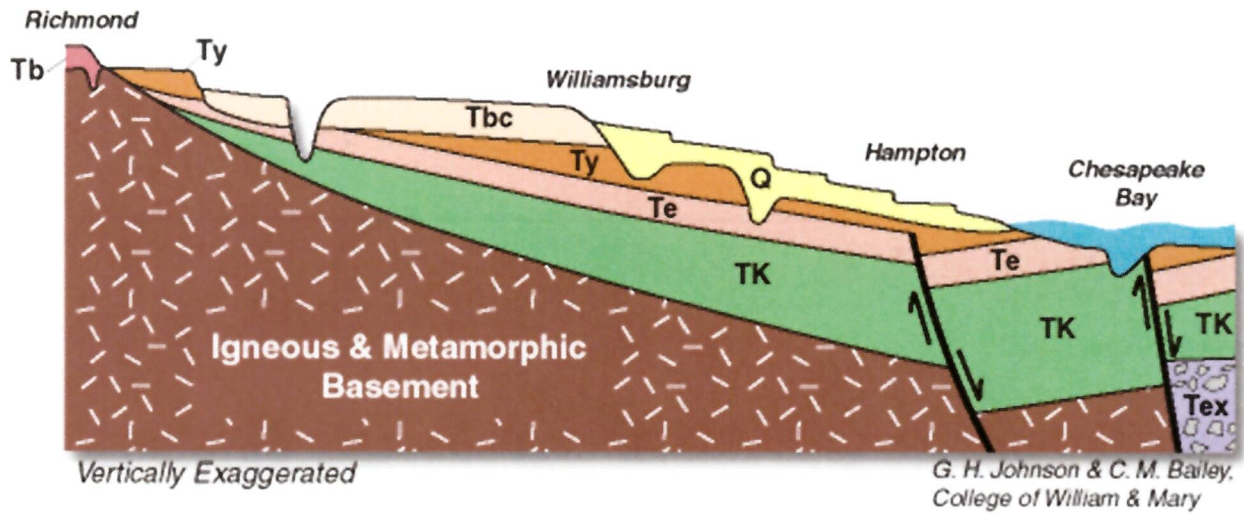
Table with 5 columns: Date (e.g., 22-May), and four numerical columns (e.g., 0.00, 0.00, 0.00, 0.24, 0.93). The table lists data for every day from May 22nd to October 13th.

Exhibit D



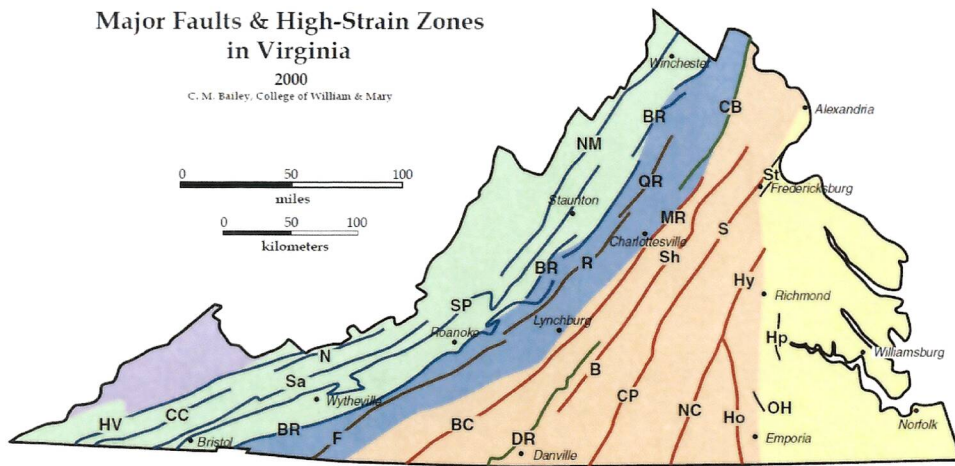
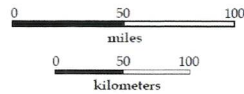
<http://csmres.jmu.edu/geollab/vageol/vahist/PhysProv.html>

Exhibit E



Major Faults & High-Strain Zones in Virginia

2000
C. M. Bailey, College of William & Mary



Valley & Ridge faults

Low-angle thrust faults of Alleghanian age (~300 Ma).

- BR- Blue Ridge fault system
- CC- Copper Creek fault
- HV- Holston Valley fault
- N- Narrows fault
- NM- North Mountain fault
- SA- Saltville fault
- SP- Staunton-Pulaski fault

Blue Ridge high-strain zones

Reverse ductile high-strain zones of Precambrian to Alleghanian age (~700 to ~300 Ma).

- F- Fries zone
- R- Rockfish Valley zone
- Q- Quaker Run zone

Piedmont high-strain zones

Reverse and strike-slip ductile high-strain zones of Taconic to Alleghanian age (~450- ~300 Ma). Many faults reactivated during Mesozoic.

- B- Brookneal zone
- BC- Bowens Creek fault
- CP- Central Piedmont zone
- HO- Hollister zone
- HY- Hylas zone
- MR- Mountain Run fault
- NC- Nutbush Creek zone
- S- Spotsylvania zone
- SH- Shores melange zone

Mesozoic faults

Brittle normal faults of Mesozoic age (~200 Ma).

- CB- Culpeper Basin
- DR- Dan River Basin

Cenozoic faults

Brittle reverse faults (65 Ma to the present).

- HP- Hopewell faults
- OH- Old Hickory faults
- ST- Stafford faults

Bibliography

Bailey, C. M. (2000). Major Faults and High Strain Zones in Virginia. Retrieved March 2, 2016, from http://web.wm.edu/geology/virginia/provinces/pdf/va_faults.pdf

Bailey, C. M., & Johnson, G. H. (n.d.). Coastal Plain province | The Geology of Virginia. Retrieved March 02, 2016, from http://web.wm.edu/geology/virginia/provinces/coastalplain/coastal_plain.html

Cederstrom, D. J. (1957). Geology and Ground Water Resources of the York-James Peninsula, Virginia (Tech. No. 1361). Washington, DC: United States Government Printing Office.

Cooper, R. (2013, May 17). Late season frost takes some toll on Virginia winemakers. Retrieved March 02, 2016, from <http://www.bizjournals.com/washington/blog/2013/05/late-season-frost-takes-some-toll-on.html>

Huggett, Jennifer M. (2005, June 11) Geology and wine: a review. Retrieved September 1, 2016, from http://www.petroclays.com/publications/2005_huggett_geology_and_wine.pdf

Sluys, S. L. (2006) Climatic Influences on the Grapevine. University of Canterbury. Retrieved on January 12, 2018. https://ir.canterbury.ac.nz/bitstream/handle/10092/1338/thesis_fulltext.pdf.txt;jsessionid=C578EB006C70BDD0766DC9B6B0C77DE0?sequence=2

Winkler, A. J. (1974). General viticulture. Berkeley: University of California Press.