

FISHER RIDGE



VINEYARD

418 MEDICAL ARTS BLDG., CHARLESTON, WV 25301

July 15, 1985

John A. Lithicum
Co-ordinator FAA
Wine and Beer Branch

ATF
Washington D C 20226

Dear Mr. Lithicum,

As the owner of the Fisher Ridge Wine Company, BWV2, I am writing to petition the Bureau for the establishment of a viticultural district in the Kanawha River Valley area.

The proposed district is wholly included within the Ohio River Valley Viticultural District. The proposed Kanawha River Valley District has features different from the Ohio River Valley.

I am enclosing documentation in support of the petition. The information was prepared with the assistance of the West Virginia Department of Agriculture.

Sincerely,

Dr. Wilson E. Ward

cc: Commissioner Gus Douglas
West Virginia Department of Agriculture

Documentation in Support of
the Petition to Establish the

KANAWHA RIVER VALLEY VITICULTURE AREA

April 19, 1985

General Description

The proposed Kanawha River Valley viticultural area consists of approximately 1,500 square miles. There are fourteen (14) acres of grapevines growing in the proposed area and one (1) winery.

The area is wholly in the State of West Virginia and is completely within the boundaries of the Ohio River Valley viticulture area. Five (5) West Virginia counties (Putnam, Cabell, Kanawha, Mason and Jackson) are either partially or wholly included in the proposed area.

History shows that the traditions of grape growing and winemaking are rich in the Kanawha River Valley. The recently reconstructed wine cellars at Dunbar, WV are a historic remnant of a flourishing viticulture which existed in the Kanawha River Valley as early as 1826. Several hundred acres of grapes were planted in the 1850's. The first commercial venture into grape growing was probably established by Thomas Friend about 1856. The Civil War brought an untimely end to this enterprize. Appendix 1 contains a history of the Dutch Hollow Wine Cellars.

Viticulture was again started in this area in 1967 and has expanded to its present state as a small but flourishing industry with an excellent potential.

Name

There is extensive literature supporting the use of the name Kanawha River Valley. The name is believed to be derived from an obscure tribe of indians which camped near the river. It is thought the tribe was known by a name similar to Kanawha. The

name Kanawha River was used for the river on the survey maps when George Washington was the owner of the land now known as the Kanawha River Valley.

The Kanawha River is formed by the confluence of the New River and the Gauley River and flows approximately 97 miles in a northwesterly direction to a point where it flows into the Ohio River at Point Pleasant.

Boundary

The Kanawha River Valley Viticultural area is located entirely in West Virginia and the Ohio River Valley viticulture area. The boundary description is included in the following paragraphs.

1. The beginning point is a point near the confluence of Sandy Creek and the Ohio River near the town of Ravenswood, WV (Ravenswood quadrangle)
2. The boundary follows the West Virginia-Ohio State line in a Southwesterly direction to the confluence of a Twelve-pole Creek and the Ohio River near Huntington, WV (Huntington quadrangle)
3. The boundary proceeds in a straight line Southeasterly to the boundary of the Ohio River Valley viticulture area in the town of Saint Albans, WV (Alum Creek quadrangle)
4. The boundary follows the boundary of the Ohio River Valley viticulture area in a straight line Northeasterly to a point near the town of Pocatalico, WV (Pocatalico quadrangle)
5. The boundary proceeds in a straight line Northwesterly to beginning point.

DISTINGUISHING CHARACTERISTICS

Viticulture

The existing vineyards within the proposed viticulture area are quite different in location and makeup from those of the surrounding areas. All of the vineyards are located at elevations

above 900 feet above sea level (maps enclosed). This is done to take advantage of the prevailing winds, the air drainage and the general topography.

The fourteen acres are divided among five (5) owner-operators with the largest vineyard being seven (7) acres of grapevines and the smallest being one-half (0.5) acre of grapevines. The makeup of the vineyard is almost exclusively french hybrid varieties and vinifera varieties. Of the fourteen (14) acres in grapevines approximately eight and one-half (8.5) acres are planted to french hybrid types, five (5) acres are planted to vinifera types and only one-half (0.5) acre is planted to labrusca types.

The fact that vinifera types can grow and produce in the vineyards of the proposed area differentiate it from the surrounding area.

Soils

The proposed Kanawha River Valley viticultural area is in the Central Allegheny Plateau (Land Resources Area 126) Region (Appendix 2). This region is underlain by shale, siltstone and some limestone of Permian and Pennsylvania Age. Most of the area is steep to very steep except for the less sloping areas adjacent to the major drainages. The growing season is 150-185 days. The major soil types in the proposed viticulture area are Gilpin, Upshur, and Vandalia. The minor types include Linside and Ashton confined to the flood plain of the Kanawha River and Monongahela.

Gilpin soils with appropriate slope have a good potential for the commonly grown cultivated crops, however, erosion can be a

problem if poorly managed. Soils of the Gilpin-Upshur complex are also suitable for the commonly grown cultivated crops and pastures. The erosion hazard in unprotected areas is a major management concern. Permeability is moderate in the subsoil of the Gilpin soil and slow in the subsoil and substratum of the Upshur soil. In unlimed areas the Gilpin is strongly to very strongly acid and the Upshur soil is strongly acid to slightly acid. Natural fertility is low to moderate in the Gilpin soil and moderate to high in the Upshur soil.

Vandalia soils are commonly on the foot slopes and have similar characteristics of the Gilpin-Upshur complex of the uplands.

Climate

The Kanawha River Valley lies beyond the immediate climatic effects of the Atlantic Ocean. Its climate is classified as continental, exhibiting marked temperature contrasts between summer and winter. The average annual temperature is approximately 52° F. In winter the average temperature minimum is in the 20's while the average maximum is in the upper 40's. Average summer minimum temperature range from the middle 50's to the middle 60's while the average maximum temperatures generally exceed 85° F. Temperatures near or in excess of 100° F have been recorded at most observation stations in the valley.

The prevailing winds are westerly but are frequently interrupted by northward and southward surges of relatively warm and cold air.

The average annual precipitation over the Kanawha River basin is approximately 43.5 inches. Precipitation is fairly well dis-

tributed throughout the year. Monthly precipitation averages indicate that the average varies from a low of 2.69 inches in October to a high of 4.88 inches in July. The average precipitation for all months was 3.65 inches (Appendix 3).

Maps

The following maps contain the area proposed as the Kanawha River Valley viticultural area. They are USGS topographical maps in the scale 1:24,000 as follows:

1. Ravenswood, WV-Ohio (dated 1960, revised 1970)
2. Sissonville, WV (dated 1958)
3. Bancroft, WV (dated 1958)
4. Garrett's Bend, WV (dated 1958)
5. Gallipolis, Ohio-WV (dated 1958)
6. Pomeroy, Ohio-WV (dated 1960)
7. Pocatalico, WV (dated 1958)
8. Beech Hill, WV (dated 1957, revised 1975)
9. Barboursville, WV-Ohio (dated 1957)
10. Alum Creek, WV (dated 1958, revised 1971)
11. Athalia, Ohio-WV (dated 1968)
12. Addison, Ohio-WV (dated 1960)
13. Cheshire, WV-Ohio (dated 1968)
14. New Haven, WV-Ohio (dated 1968)
15. Glenwood, WV-Ohio (dated 1968)
16. Kenna, WV (dated 1957)
17. Catlettsburg, Ohio-WV-KY (dated 1957)
18. Elmwood, WV (dated 1958)
19. Robertsburg, WV (dated 1958)
20. Milton, WV (dated 1972)
21. Mt. Olive, WV (dated 1958)
22. Winfield, WV (dated 1958)
23. Scott Depot, WV (dated 1958)
24. Saint Albans, WV (dated 1958)
25. Hurricane, WV (dated 1958)
26. Huntington, Ohio-WV (dated 1957)
27. Mt. Alto, WV (dated
28. Ripley, WV (dated 1960)
29. Cottageville, WV (dated 1960)
30. Chester, Ohio-WV (dated 1960, revised 1971 & 1976)
31. Apple Grove, Ohio-WV (dated 1968, revised 1975)
32. Arlee, WV (dated 1958)

References

1. Anonymous. 1982. Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1951-80, West Virginia. NOAA, Nat. Climatic Ctr. Asheville, NC.
2. Anonymous. 1984. Local Climatological Data 1983, Charleston, West Virginia. NOAA. Nat-Climatic Ctr. Asheville, NC.
3. Anonymous. 1984. Local Climatological Data, 1983. Huntington, West Virginia. NOAA. Nat. Climatic Ctr. Asheville, NC.
4. Gorman, J. C. and J. B. Rayburn, 1961. Soil Survey of Jackson and Mason Counties, West Virginia. USDA, Soil Conservation Service.
5. Harris, V. B., 1964. History of the Kanawha Valley.
6. Marshall, P. D., 1977. Architectural Research and Evaluation Report, Restoration and Reconstruction, Historic Wine Cellars, Dutch Hollow, Dunbar, West Virginia.
7. Van Houten, D. G., F. D. Childs, C. C. Teets, R. Estepp, and F. A. Doonan, 1981. Soil Survey of Kanawha County, West Virginia, USDA, Soil Conservation Service.



STATE OF WEST VIRGINIA
DEPARTMENT OF AGRICULTURE
CHARLESTON 25305

GUS R. DOUGLASS
COMMISSIONER

April 22, 1985

Dr. Wilson Ward
Fisher Ridge Wine Co.
Liberty, WV 25124

Dear Wilson:

With regard to your petition of the Bureau of Alcohol, Tobacco and Firearms for the establishment of the Kanawha River Valley viticultural area, I would like to express my full support of this project. The designation of such an area will undoubtedly enhance the existing vineyards and lend support to those interested in beginning a vineyard or winery.

After looking closely at the Ohio River Valley viticultural area and the proposed area there is no doubt that there are significant difference in topography and growing conditions and I can see why you are pursuing this matter.

Again, let me indicate my support for this project. I feel this type of effort is quite important for our fledgling grape industry.

Please feel free to include this letter in the packet of documentation with your petition.

I am

Very truly yours,


Gus R. Douglass
Agriculture Commissioner

GRD/bk

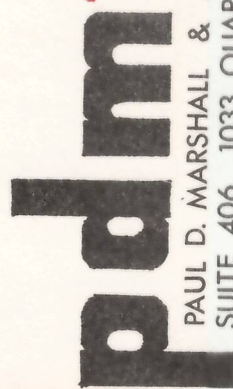
Note: Due to its size, the complete text of Appendix 1 was not scanned. Contact TTB for more information.

APPENDIX 1

ARCHITECTURAL RESEARCH AND
EVALUATION REPORT
DECEMBER 30, 1977

RESTORATION AND RECONSTRUCTION
HISTORIC WINE CELLARS
DUTCH HOLLOW
DUNBAR, WEST VIRGINIA

THE CITY OF DUNBAR
HON. FRANK B. LEONE, MAYOR

The logo for Paul D. Marshall & Associates, Inc. features the lowercase letters 'pdm' in a bold, black, sans-serif font. The letters are positioned between two thick, horizontal red bars. The top bar is located above the 'p' and 'd', and the bottom bar is located below the 'm'.

pdm

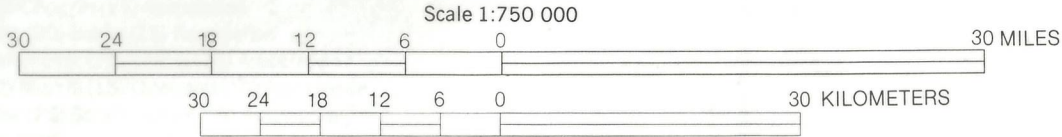
PAUL D. MARSHALL & ASSOCIATES, INC.
SUITE 406, 1033 QUARRIER STREET, CHARLESTON, WEST VIRGINIA

304 - 343 - 5310
25301

Note: Due to its size, the entire General Soil Map was not scanned.
Contact TTB for more information.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

GENERAL SOIL MAP WEST VIRGINIA



Base Source: U.S.G.S. 1:500 000 base map

DECEMBER 1979

APPENDIX 2

CLIMATOGRAPHY OF THE UNITED STATES NO. 81 (BY STATE)
MONTHLY NORMALS OF TEMPERATURE
PRECIPITATION, AND HEATING
AND COOLING DEGREE DAYS 1951-80

PREFACE

The climatological normals presented in this publication are based on records for the 30-year period 1951-80, inclusive. Data are assembled by individual States.

Data are presented in the order shown in the title. Units used in this publication are °F for temperature and inches for precipitation. Heating and cooling degree day (base 65°F) normals are derived from the monthly normal temperatures using the technique developed by Thom (1), (2). Degree day normals also have been computed to other bases and may be obtained at cost from the National Climatic Center, Asheville, NC 28801-2696.

Normals for National Weather Service Offices
and Principal Climatological Stations

A normal of a climatological element is the arithmetic mean computed over a time period spanning three consecutive decades. Homogeneity of instrument exposure and station location is assumed. If no exposure changes have occurred at a station, the normal is estimated by simply averaging the 30 values from the 1951-80 record. Since it is next to impossible to maintain a multiple purpose network of meteorological stations without having exposure changes, it is first necessary to identify and evaluate these changes and then make adjustments for them if necessary.

After the periods of heterogeneity have been determined, adjustments are applied to remove the heterogeneities introduced into the mean. This is done by comparing the record at the base station, for which the normal is desired, to the records at supplementary stations with homogeneous periods which covers the heterogeneous period at the base station. The difference method is applied to the monthly average maximum and minimum temperature and the ratio method to the monthly total precipitation (3). A weighted average of the various partial means of the adjusted and unadjusted record is then prepared to give the normal.

(Continued on inside of back cover)

WEST VIRGINIA

TEMPERATURE NORMALS (DEG F)

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ATHENS CONCORD COLLEGE	MAX	41.8	44.9	54.0	65.2	72.9	78.5	81.6	80.8	75.6	65.7	54.1	45.2	63.4
	MIN	22.1	23.6	30.9	39.9	48.2	54.6	58.7	57.6	51.8	40.5	32.4	25.5	40.5
	MEAN	32.0	34.3	42.5	52.6	60.6	66.5	70.1	69.2	63.7	53.1	43.3	35.4	51.9
BAYARD	MAX	36.0	38.5	47.8	60.8	70.0	76.4	79.0	77.2	71.1	60.7	49.0	39.3	58.8
	MIN	16.1	17.3	24.6	33.9	42.7	49.9	54.3	53.1	46.8	35.4	27.9	19.9	35.2
	MEAN	26.1	28.0	36.2	47.3	56.4	63.2	66.7	65.1	58.9	48.1	38.5	29.6	47.0
BECKLEY V A HOSPITAL	MAX	40.9	44.1	53.5	65.5	73.3	77.7	80.6	79.6	74.4	64.3	53.2	44.2	62.6
	MIN	19.7	21.4	28.7	37.3	45.5	52.3	56.8	55.9	49.7	38.2	29.9	23.1	38.2
	MEAN	30.3	32.7	41.1	51.4	59.4	65.0	68.8	67.8	62.0	51.3	41.5	33.7	50.4
BECKLEY W/O //R	MAX	38.6	41.4	50.5	62.2	70.5	76.5	79.6	78.7	73.3	62.9	51.3	42.1	60.6
	MIN	21.6	23.2	31.4	40.8	49.2	55.9	59.8	59.0	52.9	41.7	33.0	25.3	41.1
	MEAN	30.1	32.3	41.0	51.5	59.9	66.2	69.7	68.9	63.1	52.3	42.2	33.7	50.9
BLUEFIELD FAA AP	MAX	39.2	42.0	51.0	62.4	70.0	75.6	78.4	77.6	72.2	62.5	51.4	42.7	60.4
	MIN	23.8	25.6	33.6	43.4	51.8	58.5	62.2	61.5	55.7	44.7	35.4	27.6	43.7
	MEAN	31.5	33.8	42.3	52.9	60.9	67.1	70.3	69.6	64.0	53.6	43.4	35.2	52.1
BLUESTONE DAM	MAX	41.0	44.5	53.8	65.8	74.8	81.2	84.8	83.8	78.3	67.1	54.8	44.0	64.5
	MIN	21.8	22.9	30.6	39.4	48.6	56.8	61.7	61.6	55.2	42.3	32.3	24.7	41.5
	MEAN	31.4	33.7	42.2	52.6	61.7	69.0	73.3	72.8	66.8	54.7	43.6	34.4	53.0
BRANDONVILLE	MAX	35.4	37.6	47.6	59.6	69.6	77.3	80.7	79.6	74.3	62.8	50.6	39.3	59.5
	MIN	16.1	17.4	26.2	36.2	44.4	52.2	56.7	55.3	48.2	37.0	29.5	21.0	36.7
	MEAN	25.8	27.5	36.9	47.9	57.0	64.8	68.7	67.5	61.3	49.9	40.1	30.2	48.1
BUCKHANNON 2 W	MAX	40.6	43.5	53.6	65.0	74.0	80.8	83.6	82.7	77.6	66.6	54.3	44.5	63.9
	MIN	20.1	21.3	29.3	38.1	46.7	54.3	58.9	57.8	51.3	39.3	31.4	24.4	39.4
	MEAN	30.4	32.4	41.5	51.6	60.4	67.5	71.3	70.3	64.5	52.9	42.9	34.5	51.7
CAIRO 3 S	MAX	41.7	45.6	56.6	68.6	77.9	84.0	86.5	85.4	80.0	69.6	56.4	45.4	66.5
	MIN	20.1	21.6	29.6	38.3	47.6	55.9	60.8	59.8	52.8	40.4	32.0	24.2	40.3
	MEAN	30.9	33.6	43.1	53.5	62.8	70.0	73.7	72.6	66.4	55.0	44.2	34.9	53.4
CANAAN VALLEY	MAX	34.8	37.1	46.0	58.6	67.7	74.5	77.4	76.5	71.0	60.1	48.0	38.4	57.5
	MIN	15.8	17.1	24.3	33.6	42.3	48.5	52.6	51.5	45.4	35.2	27.6	19.6	34.5
	MEAN	25.3	27.1	35.2	46.1	55.1	61.5	65.1	64.0	58.2	47.7	37.8	29.1	46.0
CHARLESTON WSO R	MAX	41.8	45.4	55.4	67.3	76.0	82.5	85.2	84.2	78.7	67.7	55.6	45.9	65.5
	MIN	23.9	25.8	34.1	43.3	51.8	59.4	63.8	63.1	56.4	44.0	35.0	27.8	44.0
	MEAN	32.9	35.6	44.8	55.3	63.9	71.0	74.5	73.7	67.6	55.9	45.3	36.9	54.8
CLARKSBURG 1	MAX	39.6	42.7	53.1	65.1	74.8	82.3	85.1	84.0	78.2	66.5	54.0	43.6	64.1
	MIN	19.9	21.0	28.8	37.8	47.2	55.9	60.4	59.6	52.7	40.0	31.3	24.3	39.9
	MEAN	29.8	31.8	41.0	51.5	61.0	69.1	72.8	71.8	65.4	53.2	42.6	34.0	52.0
ELKINS WSO //R	MAX	39.0	41.6	50.9	62.2	71.3	77.9	80.7	79.6	74.4	63.8	52.0	42.7	61.3
	MIN	17.6	19.1	27.3	36.0	44.8	52.4	57.0	56.3	49.7	37.1	29.1	21.6	37.3
	MEAN	28.3	30.4	39.1	49.1	58.1	65.2	68.9	68.0	62.1	50.5	40.6	32.2	49.4
FAIRMONT	MAX	38.3	41.5	52.0	64.2	73.5	80.7	83.7	82.6	76.8	65.2	52.7	42.2	62.8
	MIN	21.3	22.8	31.0	40.7	49.5	57.3	61.5	60.6	54.2	42.7	34.1	25.8	41.8
	MEAN	29.8	32.2	41.5	52.5	61.5	69.0	72.6	71.6	65.5	54.0	43.4	34.1	52.3
FLAT TOP	MAX	35.8	38.2	46.7	58.6	66.6	72.5	75.8	75.3	69.9	59.6	48.2	39.2	57.2
	MIN	18.8	20.1	27.5	37.5	46.7	53.5	58.1	57.3	51.1	39.7	30.4	22.5	38.6
	MEAN	27.3	29.2	37.1	48.1	56.7	63.0	67.0	66.3	60.5	49.7	39.3	30.8	47.9
FRANKLIN 2 NE	MAX	42.5	44.9	53.7	65.0	73.8	80.3	83.6	82.9	77.2	67.0	55.2	45.6	64.3
	MIN	20.2	21.6	29.0	37.9	46.6	53.4	57.6	56.7	50.4	39.1	31.2	23.7	39.0
	MEAN	31.3	33.3	41.4	51.5	60.2	66.9	70.6	69.8	63.8	53.1	43.2	34.7	51.7
GASSAWAY	MAX	43.3	47.0	57.5	69.3	77.5	83.2	85.8	84.4	79.2	68.6	57.1	47.2	66.7
	MIN	21.9	23.2	30.7	39.4	48.4	57.0	61.8	61.2	54.4	41.9	32.6	25.5	41.5
	MEAN	32.7	35.1	44.1	54.4	62.9	70.1	73.8	72.8	66.8	55.3	44.9	36.4	54.1

WEST VIRGINIA

TEMPERATURE NORMALS (DEG F)

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GLENVILLE 2 NE	MAX	41.3	44.5	54.7	66.7	76.0	82.3	85.2	84.3	79.0	67.8	55.6	45.2	65.2
	MIN	19.9	21.3	29.4	38.6	47.3	56.4	61.3	60.4	53.4	39.9	31.2	24.4	40.3
	MEAN	30.6	32.9	42.1	52.7	61.7	69.4	73.3	72.4	66.2	53.9	43.4	34.8	52.8
GRANTSVILLE 2 NW	MAX	41.5	44.5	54.9	66.9	76.4	83.1	86.0	85.3	79.9	68.7	56.5	45.6	65.8
	MIN	19.1	20.6	29.6	39.1	48.2	57.0	61.7	60.6	53.3	40.2	31.2	23.6	40.4
	MEAN	30.3	32.6	42.3	53.0	62.3	70.1	73.9	73.0	66.6	54.5	43.8	34.6	53.1
HAMLIN	MAX	42.5	45.7	55.6	67.5	76.4	83.0	86.5	85.5	80.2	69.3	57.0	46.6	66.3
	MIN	19.8	21.1	30.0	39.4	48.2	56.9	61.8	60.6	53.0	39.5	30.3	23.6	40.4
	MEAN	31.2	33.4	42.8	53.5	62.3	70.0	74.1	73.1	66.6	54.4	43.7	35.1	53.4
HOGSETT GALLIPOLIS DAM	MAX	40.8	43.8	54.0	66.1	75.4	82.4	85.9	84.9	79.5	68.1	55.8	45.1	65.2
	MIN	20.2	21.6	30.0	38.7	48.5	57.2	61.9	60.9	54.1	41.4	32.0	24.5	40.9
	MEAN	30.6	32.7	42.0	52.4	61.9	69.8	73.9	72.9	66.8	54.8	43.9	34.8	53.0
HUNTINGTON WSO	MAX	41.1	45.0	55.2	67.2	75.7	82.6	85.6	84.4	78.7	67.6	55.2	45.2	65.3
	MIN	24.5	26.6	35.0	44.4	52.8	60.7	65.1	64.0	57.2	44.9	35.9	28.5	45.0
	MEAN	32.8	35.8	45.1	55.8	64.3	71.7	75.4	74.2	68.0	56.3	45.6	36.9	55.2
KEARNEYSVILLE 1 NW WASO	MAX	40.4	42.6	52.5	64.6	74.1	82.0	86.3	85.1	78.6	66.9	54.8	44.0	64.3
	MIN	20.6	22.4	30.2	40.0	48.4	56.9	61.5	60.1	53.0	40.7	32.8	24.4	40.9
	MEAN	30.5	32.5	41.4	52.3	61.3	69.5	73.9	72.6	65.8	53.8	43.8	34.2	52.6
LEWISBURG 2 SSW	MAX	41.1	44.7	54.7	66.0	74.3	80.1	83.3	82.4	77.2	66.8	54.2	44.5	64.1
	MIN	20.5	22.3	29.6	39.1	47.4	54.3	58.5	57.6	51.8	39.9	31.4	24.0	39.7
	MEAN	30.8	33.5	42.2	52.6	60.9	67.2	70.9	70.0	64.5	53.4	42.8	34.2	51.9
LONDON LOCKS	MAX	42.8	45.8	55.3	67.1	76.1	82.5	85.8	84.8	79.5	68.2	56.7	46.4	65.9
	MIN	22.8	24.0	31.7	40.1	49.6	56.3	63.1	63.2	56.9	44.2	33.9	26.4	42.9
	MEAN	32.8	34.9	43.5	53.7	62.9	70.4	74.5	74.1	68.2	56.2	45.3	36.4	54.4
MADISON	MAX	42.5	46.6	56.7	68.7	77.0	82.9	86.2	85.3	80.2	69.3	56.6	46.0	66.5
	MIN	22.2	23.3	31.4	40.4	49.6	58.2	63.1	62.4	55.4	42.0	31.8	25.2	42.1
	MEAN	32.4	35.0	44.1	54.6	63.3	70.6	74.6	73.9	67.8	55.7	44.3	35.6	54.3
MANNINGTON 1 N	MAX	40.0	43.0	54.2	66.4	76.0	82.7	85.6	84.4	78.8	67.5	54.4	43.7	64.7
	MIN	18.0	19.4	27.8	36.7	45.5	54.0	58.8	57.8	50.7	38.0	30.0	22.7	38.3
	MEAN	29.0	31.3	41.0	51.6	60.8	68.4	72.2	71.2	64.8	52.7	42.2	33.2	51.5
MARTINSBURG FAA AP	MAX	39.6	42.5	52.3	65.0	74.5	82.8	87.0	85.6	78.7	66.9	54.3	43.3	64.4
	MIN	21.3	23.1	31.1	40.8	49.9	58.3	63.0	61.8	54.3	42.2	33.5	25.1	42.0
	MEAN	30.5	32.8	41.7	52.9	62.2	70.6	75.0	73.7	66.5	54.6	43.9	34.2	53.2
MCROSS	MAX	39.9	43.3	53.1	64.9	72.7	77.8	80.5	79.8	75.1	65.4	53.4	43.4	62.4
	MIN	18.3	20.0	27.7	36.2	45.1	52.6	57.0	56.6	50.3	38.1	29.4	21.8	37.8
	MEAN	29.1	31.7	40.4	50.6	58.9	65.2	68.8	68.2	62.8	51.8	41.4	32.6	50.1
MIDDLEBOURNE 2 ESE	MAX	39.3	42.6	53.2	65.2	74.8	82.0	84.9	83.9	78.6	67.3	54.3	43.3	64.1
	MIN	19.5	21.0	29.0	37.9	47.3	56.3	61.0	59.8	53.1	40.0	31.2	23.8	40.0
	MEAN	29.4	31.8	41.1	51.6	61.0	69.2	73.0	71.9	65.8	53.7	42.8	33.6	52.1
MORGANTOWN FAA AIRPORT	MAX	36.0	40.7	51.2	63.5	73.1	80.5	83.6	82.4	76.6	65.0	52.5	42.2	62.4
	MIN	21.4	23.1	31.5	41.2	50.3	58.3	62.6	61.6	55.3	43.7	34.8	26.2	42.5
	MEAN	29.7	31.9	41.4	52.4	61.7	69.4	73.1	72.0	66.0	54.4	43.7	34.2	52.5
MORGANTOWN L AND D	MAX	39.8	42.8	53.0	65.2	74.6	81.6	84.5	83.3	77.8	66.5	54.1	43.9	63.9
	MIN	20.5	21.9	29.8	39.1	48.0	56.2	60.6	59.6	53.3	41.4	32.8	24.9	40.7
	MEAN	30.1	32.4	41.4	52.1	61.3	68.9	72.6	71.5	65.6	54.0	43.5	34.4	52.3
NEW CUMBERLAND	MAX	38.1	41.5	52.2	65.4	75.2	82.5	85.6	84.6	79.0	67.9	53.8	42.1	64.0
	MIN	20.6	22.1	29.9	39.1	48.1	57.0	61.2	60.2	54.1	42.6	34.3	25.4	41.2
	MEAN	29.4	31.8	41.1	52.2	61.7	69.8	73.4	72.5	66.6	55.3	44.1	33.8	52.6
OAK HILL	MAX	40.5	43.0	52.4	64.1	73.1	79.8	83.1	82.3	77.1	65.8	53.7	44.1	63.3
	MIN	19.6	20.9	29.0	38.7	46.9	54.3	58.7	58.0	51.7	39.7	30.8	23.5	39.3
	MEAN	30.1	32.0	40.7	51.4	60.1	67.0	70.9	70.2	64.4	52.8	42.3	33.8	51.3

WEST VIRGINIA

TEMPERATURE NORMALS (DEG F)

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
PARKERSBURG FAA AP	MAX	38.7	42.0	52.6	64.8	74.3	81.5	84.3	83.3	77.5	66.1	53.4	43.0	63.5
	MIN	22.1	23.9	32.6	42.5	51.4	59.6	64.4	63.4	56.5	44.3	35.2	26.9	43.6
	MEAN	30.4	33.0	42.6	53.6	62.9	70.6	74.4	73.4	67.1	55.2	44.3	35.0	53.5
PARKERSBURG WSO	R MAX	39.5	42.7	53.1	65.3	74.8	82.0	84.9	84.0	78.0	66.7	53.9	43.5	64.0
	MIN	22.9	25.0	33.1	42.9	52.2	60.2	64.6	63.5	56.8	44.8	35.7	27.6	44.1
	MEAN	31.2	33.9	43.1	54.1	63.5	71.1	74.8	73.8	67.4	55.8	44.8	35.6	54.1
PICKENS 1	MAX	38.2	40.6	49.5	60.7	69.6	75.8	78.5	77.8	72.9	62.8	50.7	41.8	59.9
	MIN	17.2	18.9	26.7	36.1	44.3	51.3	55.3	54.6	48.7	37.8	28.9	21.2	36.8
	MEAN	27.7	29.8	38.1	48.4	57.0	63.6	66.9	66.2	60.8	50.3	39.8	31.5	48.3
PINEVILLE	MAX	42.2	46.0	55.6	68.0	76.6	82.9	85.7	85.1	79.8	68.8	56.4	45.8	66.1
	MIN	20.9	22.1	29.7	38.3	48.0	56.5	61.2	60.6	53.7	40.5	30.8	24.1	40.5
	MEAN	31.6	34.1	42.7	53.2	62.3	69.8	73.5	72.8	66.8	54.6	43.6	35.0	53.3
RAVENSWOOD LOCK PARK	MAX	42.7	46.2	56.6	68.5	77.2	83.7	86.5	85.8	80.6	70.0	57.2	47.0	66.8
	MIN	22.4	24.1	32.3	41.1	50.0	58.0	62.5	61.1	54.7	42.7	34.3	26.8	42.5
	MEAN	32.6	35.1	44.5	54.8	63.6	70.9	74.5	73.5	67.7	56.4	45.8	36.9	54.7
ROWLESBURG 1	MAX	39.3	42.2	52.1	64.3	73.9	80.9	83.5	82.7	77.4	66.0	53.7	42.7	63.2
	MIN	19.8	21.1	28.7	37.8	46.7	55.1	59.6	59.1	52.5	40.4	31.9	23.9	39.7
	MEAN	29.6	31.7	40.4	51.1	60.3	68.0	71.6	70.9	65.0	53.2	42.8	33.3	51.5
SPENCER	MAX	42.4	45.9	55.6	67.6	76.2	82.1	84.8	84.0	79.1	68.2	56.0	46.1	65.7
	MIN	22.1	23.5	31.4	40.9	49.2	57.1	61.3	60.5	53.9	42.0	33.4	26.3	41.8
	MEAN	32.3	34.7	43.5	54.3	62.7	69.6	73.1	72.3	66.5	55.1	44.7	36.2	53.8
SPRUCE KNOB	MAX	35.8	37.0	45.4	57.2	66.6	73.6	77.3	77.0	71.8	61.1	49.6	39.5	57.7
	MIN	16.4	17.5	25.0	36.1	45.0	52.5	56.3	55.3	48.8	38.8	29.1	20.1	36.7
	MEAN	26.1	27.3	35.3	46.7	55.8	63.1	66.8	66.2	60.3	50.0	39.4	29.8	47.2
UNION	MAX	40.6	43.6	52.7	63.6	72.7	79.1	82.7	82.0	76.6	66.1	54.2	44.2	63.2
	MIN	19.0	20.7	28.7	38.0	46.6	53.7	57.8	56.6	50.0	38.1	29.4	22.3	38.4
	MEAN	29.9	32.2	40.7	50.8	59.6	66.4	70.3	69.4	63.3	52.1	41.8	33.3	50.8
WARDENSVILLE R M FARM	MAX	41.0	42.9	52.1	64.0	73.6	81.3	85.4	84.4	78.1	67.2	55.5	44.5	64.2
	MIN	18.0	19.5	28.1	37.6	46.5	54.8	59.1	57.8	50.5	38.4	30.3	22.0	38.6
	MEAN	29.5	31.2	40.1	50.9	60.1	68.1	72.3	71.1	64.3	52.8	42.9	33.3	51.4
WEBSTER SPRINGS 1 E	MAX	43.1	46.5	56.2	68.0	76.4	82.3	84.9	83.5	78.2	68.0	55.9	46.3	65.8
	MIN	22.3	23.6	31.1	39.7	47.9	55.6	59.9	59.3	53.2	41.1	32.7	25.7	41.0
	MEAN	32.7	35.1	43.7	53.9	62.2	69.0	72.4	71.4	65.7	54.6	44.3	36.0	53.4
WELLSBURG 3 NE	MAX	38.0	41.4	52.1	65.2	75.0	82.6	85.7	84.5	78.6	66.6	53.4	42.2	63.8
	MIN	19.5	21.2	28.9	37.9	46.7	55.4	59.4	58.4	51.7	40.0	32.6	24.3	39.7
	MEAN	28.8	31.3	40.6	51.6	60.9	69.1	72.6	71.4	65.2	53.4	43.1	33.3	51.8
WESTON	MAX	40.4	43.0	53.4	64.9	75.2	82.4	85.6	84.6	79.1	67.4	55.0	44.2	64.6
	MIN	19.8	20.4	28.6	37.8	46.9	55.8	60.6	59.6	52.4	39.7	31.1	24.3	39.8
	MEAN	30.1	31.7	41.0	51.4	61.1	69.1	73.1	72.1	65.8	53.6	43.1	34.3	52.2
WHEELING FILT PLANT	MAX	37.5	39.8	50.4	62.7	73.3	81.5	84.8	83.6	78.1	66.4	53.1	41.8	62.8
	MIN	20.6	21.5	30.0	39.6	48.5	57.8	62.3	61.7	54.9	43.0	34.4	25.7	41.7
	MEAN	29.1	30.7	40.2	51.2	60.9	69.7	73.6	72.6	66.5	54.8	43.8	33.8	52.2
WHITE SULPHUR SPRINGS	MAX	43.0	46.7	56.6	68.4	76.9	82.6	85.8	84.7	78.9	68.7	55.8	46.0	66.2
	MIN	21.1	22.6	29.6	37.8	46.7	54.2	58.9	58.5	52.2	39.6	31.0	23.8	39.7
	MEAN	32.1	34.7	43.1	53.1	61.8	68.4	72.3	71.7	65.6	54.2	43.4	34.9	52.9
WINFIELD LOCKS	MAX	41.7	44.4	54.5	66.4	75.9	82.7	86.2	85.3	79.8	68.5	56.2	46.0	65.6
	MIN	22.4	23.4	31.3	40.3	50.0	59.0	63.8	63.1	56.6	44.1	34.2	26.5	42.9
	MEAN	32.1	34.0	42.9	53.4	62.9	70.8	75.0	74.2	68.2	56.3	45.2	36.3	54.3

WEST VIRGINIA

PRECIPITATION NORMALS (INCHES)

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALDERSON	3.02	2.88	3.75	3.45	3.62	3.40	3.70	3.21	3.12	2.55	2.46	2.93	38.09
ATHENS CONCORD COLLEGE	2.98	2.80	3.66	3.52	3.80	3.63	3.89	2.90	3.24	2.53	2.46	2.77	38.18
BAYARD	4.04	3.45	4.56	4.42	4.38	4.18	4.48	4.87	3.16	3.30	3.14	3.84	47.82
BECKLEY V A HOSPITAL	3.49	3.00	3.80	3.54	3.57	3.99	4.65	4.28	3.80	2.63	2.80	2.99	42.54
BECKLEY WSO //R	3.44	3.19	4.13	3.59	3.86	3.82	4.46	3.68	3.38	2.54	2.81	3.23	42.12
BELINGTON	4.02	3.42	4.33	4.26	4.21	4.84	5.32	4.66	3.85	3.32	3.06	3.87	49.16
BELVA	3.67	3.01	4.04	3.56	4.06	3.90	5.29	4.47	3.44	2.94	2.93	3.24	44.55
BENS RUN 1 SSE	3.29	2.65	3.71	3.86	3.91	4.00	4.28	4.48	3.20	2.73	2.93	3.22	42.46
BLUEFIELD FAA AP	2.81	2.87	3.60	3.53	3.78	3.26	4.19	3.37	3.07	2.60	2.55	2.81	38.44
BLUESTONE DAM	2.61	2.56	3.59	3.17	3.59	3.15	4.04	3.11	2.91	2.35	2.24	2.53	35.85
BRANCHLAND	3.60	3.15	4.19	3.73	4.22	3.61	4.91	4.25	3.17	2.39	3.12	3.45	43.79
BRANDONVILLE	3.62	3.05	4.01	4.18	4.39	4.51	4.69	4.73	3.38	3.06	2.94	3.68	46.24
BRUSHY RUN	2.17	2.03	2.94	2.78	3.09	3.31	3.00	3.52	2.82	2.68	2.12	1.93	32.39
BUCKEYE	3.56	3.18	4.48	3.74	3.92	3.72	4.29	3.83	3.46	3.08	2.93	3.62	43.81
BUCKHANNON 2 W	4.00	3.25	4.13	4.20	4.10	4.60	4.93	4.24	3.69	3.16	3.17	3.93	47.40
BURNSVILLE	3.62	3.01	3.83	3.83	4.03	3.98	4.91	4.14	3.30	2.92	2.88	3.51	43.96
CAIRO 3 S	3.28	2.78	3.73	3.93	4.14	4.04	4.93	4.42	3.02	2.89	2.97	3.14	43.27
CAMDEN ON GAULEY	4.10	3.53	4.46	4.19	4.79	4.91	6.46	5.07	3.99	3.60	3.49	3.94	52.53
CANAAN VALLEY	4.62	4.09	5.08	4.30	4.63	4.90	4.81	5.10	3.52	3.55	3.59	4.28	52.47
CENTRALIA	4.12	3.33	4.17	3.98	4.19	4.63	5.71	4.87	3.77	3.26	3.24	3.61	48.88
CHARLESTON WSO R	3.48	3.11	4.00	3.52	3.68	3.32	5.36	4.15	3.01	2.63	2.90	3.27	42.43
CLARKSBURG 1	3.17	2.66	3.51	3.55	3.85	4.06	4.08	4.59	2.98	2.70	2.55	3.35	41.05
CLAY 1 SW	3.82	3.24	4.38	4.07	4.16	3.76	4.61	3.52	2.87	3.15	3.64	4.59	45.77
CLENDENIN 1 SW	3.78	3.23	4.29	3.86	3.97	3.93	5.43	4.34	3.38	2.81	3.18	3.47	45.67
CRESTON	3.57	2.95	4.00	3.84	4.03	3.83	4.55	4.40	3.25	2.94	2.91	3.58	43.85
DRY CREEK	3.94	3.53	4.63	4.08	4.32	4.16	5.36	4.67	3.56	2.88	3.35	3.74	48.22
ELKINS WSO //R	3.39	2.84	3.66	3.71	3.82	4.35	4.68	4.20	3.21	2.97	2.69	3.33	42.85
FAIRMONT	3.32	2.83	3.90	3.74	4.24	4.16	4.35	4.49	3.17	2.83	2.85	3.37	43.25
FLAT TOP	3.77	3.52	4.46	4.11	4.35	3.60	4.51	3.50	3.51	2.96	3.04	3.50	44.83
FRANKLIN 2 NE	2.00	1.97	2.80	2.66	3.10	3.31	3.29	3.34	2.86	2.97	2.09	2.07	32.46
GARY //R	3.20	2.91	3.97	3.70	3.83	3.44	4.49	3.87	3.23	2.65	2.73	2.93	40.95
GASSAWAY	3.56	3.12	3.93	3.90	3.88	4.37	5.16	4.49	3.62	3.08	3.01	3.56	45.68
GLENVILLE 2 NE	3.51	2.96	3.78	3.82	4.15	3.92	5.08	4.41	3.45	3.04	2.86	3.45	44.43
GRANTSVILLE 2 NW	3.42	3.02	3.89	3.62	3.73	3.53	4.62	4.22	3.28	2.71	2.86	3.37	42.27
HAMLIN	3.46	3.03	4.00	3.69	4.02	3.58	5.04	3.99	3.35	2.48	3.09	3.40	43.13
HOGSETT GALLIPOLIS DA1	3.11	2.81	4.00	3.51	3.85	3.46	4.48	3.89	3.12	2.39	2.77	3.03	40.42
HUNTINGTON WSO	3.24	2.83	4.08	3.48	3.94	3.56	4.47	3.73	3.07	2.40	2.82	3.12	40.72
KEARNEYSVILLE 1 NW WEASO	2.73	2.36	3.40	3.32	3.61	3.66	3.45	3.94	3.13	3.03	2.73	2.83	38.19
KERMIT	3.52	3.27	4.06	3.65	3.95	3.81	4.96	3.66	3.19	2.48	2.78	3.65	42.98
LAKE LYNN	2.96	2.39	3.48	3.65	3.81	4.08	4.23	4.16	3.38	2.58	2.50	2.83	40.05
LEWISBURG 2 SSW	2.72	2.85	3.62	3.36	3.48	3.63	4.47	3.73	2.99	2.74	2.46	2.82	38.87
LONDON LOCKS	3.41	3.13	4.31	3.86	4.13	3.70	5.55	4.30	3.42	2.83	3.14	3.48	45.26
MADISON	3.47	3.11	4.17	3.80	4.11	4.10	4.87	3.84	3.41	2.66	3.01	3.35	43.90
MANNINGTON 1 N	3.35	2.71	3.70	3.87	4.26	4.35	5.03	4.69	3.30	2.93	2.81	3.37	44.37
MANNINGTON 1 W	3.42	2.90	3.93	4.01	4.40	4.44	4.94	4.69	3.44	2.89	2.82	3.34	45.22
MARTINSBURG FAA AP	2.44	2.32	3.30	3.23	3.58	3.48	3.27	3.61	2.87	2.97	2.65	2.72	36.44
MATHIAS	2.14	2.10	2.96	2.88	3.45	3.56	3.50	3.71	3.18	2.84	2.47	2.17	34.96
MCCROSS	4.15	3.83	4.86	4.51	4.53	4.70	5.56	4.61	3.70	3.41	3.70	3.95	51.51
MIDDLEBOURNE 2 ESE	3.18	2.74	3.56	3.79	4.37	3.95	4.69	4.81	3.47	2.87	2.74	3.04	43.21
MORGANTOWN FAA AIRPORT	2.95	2.52	3.61	3.51	3.69	3.91	3.99	4.57	3.36	2.64	2.70	3.14	40.59
MORGANTOWN L AND D	3.17	2.60	3.65	3.72	3.78	3.91	4.27	4.56	3.29	2.68	2.73	3.10	41.46
NEW CUMBERLAND	2.57	2.19	3.45	3.31	3.81	3.96	4.22	3.52	2.81	2.54	2.40	2.47	37.25
OAK HILL	3.63	3.08	4.17	3.72	4.07	3.86	5.20	4.33	3.57	2.98	3.09	3.33	45.03
PARKERSBURG FAA AP	3.19	2.85	3.84	3.56	3.72	3.76	4.44	3.99	2.94	2.71	2.75	2.92	40.67
PARKERSBURG WSO R	2.86	2.58	3.56	3.37	3.49	3.84	4.08	3.58	2.82	2.44	2.43	2.72	37.77

WEST VIRGINIA

PRECIPITATION NORMALS (INCHES)

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
PHILIPPI	3.87	3.18	4.04	3.91	4.44	4.36	5.06	4.49	3.65	3.08	3.14	3.93	47.15
PICKENS 1	5.66	4.92	6.17	5.58	5.75	5.70	6.76	5.90	4.73	4.70	4.64	5.51	66.02
PINEVILLE	3.73	3.27	4.33	4.06	4.02	4.05	4.98	4.08	3.49	2.96	3.08	3.32	45.37
PRINCETON	2.77	2.65	3.57	3.35	3.44	3.52	3.80	3.08	3.03	2.59	2.44	2.60	36.84
RAVENSWOOD LOCK PARK	3.05	2.74	3.67	3.45	3.61	3.48	4.22	3.73	2.82	2.40	2.59	2.94	38.70
RIPLEY	3.79	3.28	4.27	4.07	4.36	3.82	5.02	4.13	3.38	2.97	3.17	3.68	45.94
ROMNEY 3 NN	2.40	2.05	3.11	2.90	3.18	3.79	3.42	3.50	2.95	2.75	2.22	2.31	34.58
ROWLESBURG 1	4.57	3.72	5.06	4.96	4.97	5.05	5.26	5.40	3.69	3.62	3.82	4.84	54.96
SPENCER	3.41	2.75	3.74	3.55	3.60	3.53	4.93	4.40	3.36	2.81	2.69	3.16	41.93
SPRUCE KNOB	3.09	2.95	3.82	3.57	3.74	3.85	3.75	3.57	3.34	3.33	2.77	3.03	40.81
SUTTON RESEVOIR	3.54	2.87	3.76	3.85	4.06	4.42	5.24	4.50	3.75	3.11	2.87	3.39	45.36
THOMAS	4.65	3.89	5.24	5.02	5.06	5.33	5.40	5.51	3.67	3.77	3.67	4.68	55.89
UNION	2.51	2.58	3.48	3.07	3.41	3.17	3.84	3.02	3.14	2.58	2.27	2.45	35.52
VALLEY HEAD	4.08	3.53	4.53	4.09	4.29	4.81	5.43	4.33	3.60	3.64	3.23	3.87	49.43
VANDALIA	3.97	3.27	4.13	4.22	4.11	4.75	5.29	4.52	3.98	3.10	3.19	3.93	48.46
WARDENSVILLE R M FARM	2.22	1.95	2.95	2.94	3.46	3.60	3.39	3.65	3.05	2.91	2.42	2.17	34.71
WEBSTER SPRINGS 1 E	3.54	3.11	4.20	4.30	4.35	4.83	5.98	4.79	4.08	3.44	3.38	3.48	49.48
WELLSBURG 3 NE	2.71	2.30	3.52	3.63	3.82	3.81	4.23	3.78	2.79	2.68	2.48	2.56	38.31
WESTON	4.44	3.73	4.59	4.19	4.34	4.67	5.10	4.58	3.73	3.36	3.34	4.34	50.39
WHEELING FILT PLANT	2.79	2.37	3.65	3.57	3.71	3.62	4.14	3.55	3.30	2.43	2.37	2.56	38.06
WHITE SULPHUR SPRINGS	2.98	2.80	3.87	3.22	3.60	3.42	4.16	3.48	3.21	2.76	2.57	2.90	38.97
WILLIAMSON	3.60	3.54	4.41	3.72	3.99	4.06	4.69	3.58	3.42	2.51	3.22	3.56	44.30
WILLIAMSON 2	3.70	3.54	4.36	3.70	4.04	3.82	4.97	3.48	3.68	2.63	3.16	3.54	44.62
WINFIELD LOCKS	3.26	2.79	3.93	3.66	3.90	3.21	4.49	3.84	3.34	2.50	2.85	3.08	40.85

TOTAL AVG
43.25

WEST VIRGINIA

HEATING DEGREE DAY NORMALS (BASE 65 DEG F)

STATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANN
ATHENS CONCORD COLLEGE	6	8	101	369	651	918	1023	860	698	372	171	46	5223
BAYARD	31	66	199	524	795	1097	1206	1036	893	531	279	96	6753
BECKLEY V A HOSPITAL	16	22	130	425	705	970	1076	904	741	408	198	74	5669
BECKLEY WSO //R	11	14	110	398	684	970	1082	916	744	405	186	57	5577
BLUEFIELD FAA AP	0	10	93	357	648	924	1039	874	704	363	166	39	5217
BLUESTONE DAM	0	0	58	329	642	949	1042	876	707	372	158	28	5161
BRANDONVILLE	12	34	144	468	747	1079	1215	1050	871	513	267	78	6478
BUCKHANNON 2 W	0	9	88	380	663	946	1073	913	729	402	178	35	5416
CAIRO 3 S	0	0	62	319	624	933	1057	879	679	345	133	18	5049
CANAAN VALLEY	68	84	215	536	816	1113	1231	1061	924	567	316	141	7072
CHARLESTON WSO R	0	0	51	301	591	871	995	823	626	298	125	16	4697
CLARKSBURG 1	0	8	83	371	672	961	1091	930	744	405	167	27	5459
ELKINS WSO //R	11	19	127	450	732	1017	1138	969	803	477	233	69	6045
FAIRMONT	0	5	80	352	648	958	1091	918	729	379	162	32	5354
FLAT TOP	29	42	166	474	771	1060	1169	1002	865	507	272	108	6465
FRANKLIN 2 NE	7	15	100	373	654	939	1045	888	732	405	180	46	5384
GASSAWAY	0	0	52	313	603	887	1001	837	648	323	127	13	4804
GLENVILLE 2 NE	0	7	78	357	648	936	1066	899	710	375	165	27	5268
GRANTSVILLE 2 NW	0	0	65	335	636	942	1076	907	704	360	149	19	5193
HAMLIN	0	0	70	342	639	927	1048	885	688	349	150	19	5117
HOGSETT GALLIPOLIS DAM	0	0	60	329	633	936	1066	904	713	378	157	20	5196
HUNTINGTON WSO	0	0	62	293	582	871	998	818	617	293	125	17	4676
KEARNEYSVILLE 1 NW W/ASO	0	0	66	354	636	955	1070	910	732	381	166	18	5288
LEWISBURG 2 SSW	8	9	87	363	666	955	1060	882	707	376	169	45	5327
LONDON LOCKS	0	0	44	296	591	887	998	843	667	345	142	25	4838
MADISON	0	0	47	308	621	911	1011	840	648	318	136	18	4858
MANNINGTON 1 N	0	8	89	387	684	986	1116	944	744	402	178	37	5575
MARTINSBURG FAA AP	0	6	62	327	633	955	1070	902	722	363	149	8	5197
MCCROSS	13	21	113	414	708	1004	1113	932	763	432	211	72	5796
MIDDLEBOURNE 2 ESE	0	6	72	358	666	973	1104	930	741	402	172	22	5446
MORGANTOWN FAA AIRPORT	0	6	76	336	639	955	1094	927	732	384	169	30	5348
MORGANTOWN L AND C	0	8	69	355	645	949	1082	913	732	391	176	40	5360
NEW CUMBERLAND	0	0	57	310	627	967	1104	930	741	384	159	17	5296
OAK HILL	0	8	97	385	681	967	1082	924	753	408	193	46	5544
PARKERSBURG FAA AP	0	0	64	316	621	930	1073	896	694	347	150	16	5107
PARKERSBURG WSO R	0	0	59	300	606	911	1048	871	679	331	138	14	4957
PICKENS 1	29	38	154	456	756	1039	1156	986	834	498	263	97	6306
PINEVILLE	0	0	58	340	642	930	1035	865	691	358	150	25	5094
RAVENSWOOD LOCK PARK	0	0	63	283	576	871	1004	837	636	311	127	12	4720
ROWLESBURG 1	7	10	81	374	666	983	1097	932	763	422	195	43	5573
SPENCER	0	0	65	321	609	893	1014	848	667	327	136	22	4902
SPRUCE KNOB	45	50	179	471	768	1091	1206	1056	921	549	308	130	6774
UNION	8	14	113	400	696	983	1088	918	753	426	197	48	5644
WARDENSVILLE R M FAR 1	0	5	87	382	663	983	1101	946	772	423	186	24	5572
WEBSTER SPRINGS 1 E	0	0	66	330	621	899	1001	837	660	338	149	26	4927
WELLSBURG 3 NE	0	8	83	365	657	983	1122	944	756	402	173	20	5513
WESTON	0	0	66	362	657	952	1082	932	744	408	174	30	5407
WHEELING FILT PLANT	0	0	60	325	636	967	1113	960	769	414	187	19	5450
WHITE SULPHUR SPRINGS	0	0	77	341	648	933	1020	848	679	357	146	26	5075
WINFIELD LOCKS	0	0	43	286	594	890	1020	868	685	352	140	14	4892

WEST VIRGINIA

COOLING DEGREE DAY NORMALS (BASE 65 DEG F)

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ATHENS COLCORD COLLEGE	0	0	0	0	35	91	164	138	62	0	0	0	490
BAYARD	0	0	0	0	13	42	84	69	16	0	0	0	224
BECKLEY V A HOSPITAL	0	0	0	0	25	74	134	108	40	0	0	0	381
BECKLEY WJO //R	0	0	0	0	28	93	157	135	53	0	0	0	466
BLUEFIELD FAA AP	0	0	0	0	38	102	169	153	63	0	0	0	525
BLUESTONE DAM	0	0	0	0	56	148	257	244	112	10	0	0	827
BRANDONVILLE	0	0	0	0	19	72	127	111	33	0	0	0	362
BUCKHANNOI 2 W	0	0	0	0	35	110	200	173	73	0	0	0	591
CAIRO 3 S	0	0	0	0	65	168	270	238	104	9	0	0	854
CANAAN VALLEY	0	0	0	0	9	36	71	53	11	0	0	0	180
CHARLESTON WSO R	0	0	0	7	91	196	295	270	129	19	0	0	1007
CLARKSBURG 1	0	0	0	0	43	150	246	218	95	6	0	0	758
ELKINS WSO //R	0	0	0	0	19	75	132	112	40	0	0	0	378
FAIRMONT	0	0	0	0	54	152	239	210	95	11	0	0	761
FLAT TOP	0	0	0	0	14	48	91	82	31	0	0	0	266
FRANKLIN 2 NE	0	0	0	0	31	103	181	164	64	0	0	0	543
GASSAWAY	0	0	0	0	62	166	273	242	106	12	0	0	861
GLENVILLE 2 NE	0	0	0	6	63	159	261	237	114	13	0	0	853
GRANTSVILLE 2 NW	0	0	0	0	65	172	276	252	113	9	0	0	887
HAMLIN	0	0	0	0	66	169	282	254	118	13	0	0	902
HOGSETT GALLIPOLIS DAM	0	0	0	0	61	164	276	249	114	12	0	0	876
HUNTINGTON WSO	0	0	0	17	103	218	322	285	152	24	0	0	1121
KEARNEYSVILLE 1 NW WBASO	0	0	0	0	51	153	276	239	90	7	0	0	816
LEWISBURG 2 SW	0	0	0	0	42	111	191	164	72	0	0	0	580
LONDON LOCKS	0	0	0	6	77	187	299	282	140	24	0	0	1015
MADISON	0	0	0	6	83	186	298	276	131	20	0	0	1000
MANNINGTON 1 N	0	0	0	0	48	139	226	200	83	6	0	0	702
MARTINSBURG FAA AP	0	0	0	0	62	176	310	276	107	0	0	0	931
MARSH	0	0	0	0	22	78	131	120	47	0	0	0	398
MIDDLEBOROUGH 2 ESE	0	0	0	0	48	148	248	220	96	8	0	0	768
MORGANTOWN FAA AIRPORT	0	0	0	6	67	162	254	223	106	8	0	0	826
MORGANTOWN L AND D	0	0	0	0	61	157	240	209	87	14	0	0	768
NEW CUMBERLAND	0	0	0	0	56	161	260	237	105	10	0	0	829
OAK HILL	0	0	0	0	41	106	188	169	79	7	0	0	590
PARKERSBURG FAA AP	0	0	0	5	85	184	291	260	127	12	0	0	964
PARKERSBURG WSO R	0	0	0	0	92	197	304	273	131	14	0	0	1011
PICKENS 1	0	0	0	0	15	55	88	75	28	0	0	0	261
PINEVILLE	0	0	0	0	66	169	268	246	112	17	0	0	878
RAVENSHOOD LOCK PARK	0	0	0	0	84	189	295	267	144	17	0	0	996
ROWLESBURG 1	0	0	0	0	49	133	211	193	81	8	0	0	675
SPENCER	0	0	0	6	65	160	251	230	110	14	0	0	836
SPRUCE KNOB	0	0	0	0	23	73	101	88	38	6	0	0	329
UNION	0	0	0	0	29	90	172	150	62	0	0	0	503
WARDENSVILLE R M FARM	0	0	0	0	34	117	226	195	66	0	0	0	638
WEBSTER SPRINGS 1 E	0	0	0	0	62	146	233	202	87	8	0	0	738
WELLSBURG 3 NE	0	0	0	0	46	143	238	207	89	6	0	0	729
WESTON	0	0	0	0	53	153	251	225	90	9	0	0	781
WHEELING MILT PLANT	0	0	0	0	60	160	267	239	105	9	0	0	840
WHITE SULPHUR SPRINGS	0	0	0	0	47	128	226	212	95	6	0	0	714
WINFIELD LOCKS	0	0	0	0	75	188	310	285	139	16	0	0	1013

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LEGEND

11 = TEMPERATURE ONLY
 12 = PRECIPITATION ONLY
 13 = TEMP. & PRECIP.

STATE-STATIC NUMBER	STN TYP	NAME	LATITUDE DEG-MIN	LONGITUDE DEG-MIN	ELEVATION (FT)
46-0102	12	ALDERSON	N 3744	W 08038	1540
46-0355	13	ATHENS CONCORD COLLEGE	N 3726	W 08100	2590
46-0527	13	BAYARD	N 3916	W 07922	2375
46-0580	13	BECKLEY V A HOSPITAL	N 3747	W 08111	2330
46-0582	13	BECKLEY WSO //R	N 3747	W 08107	2504
46-0633	12	BELINGTON	N 3902	W 07956	1710
46-0661	12	BELVA	N 3814	W 08112	744
46-0687	12	BENS RUN 1 SSE	N 3928	W 08106	644
46-0921	13	BLUEFIELD FAA AP	N 3718	W 08113	2870
46-0939	13	BLUESTONE DAM	N 3739	W 08053	1386
46-1075	12	BRANCHLAND	N 3813	W 08212	600
46-1083	13	BRANDONVILLE	N 3940	W 07937	1798
46-1204	12	BRUSHY RUN	N 3850	W 07915	1375
46-1215	12	BUCKEYE	N 3811	W 08008	2100
46-1220	13	BUCKHANNON 2 W	N 3900	W 08016	1445
46-1282	12	BURNSVILLE	N 3852	W 08040	770
46-1328	13	CAIRO 3 S	N 3910	W 08110	680
46-1363	12	CAMDEN ON GAULEY	N 3822	W 08036	2030
46-1393	13	CANAAN VALLEY	N 3903	W 07926	3250
46-1526	12	CENTRALIA	N 3837	W 08035	1030
46-1570	13	CHARLESTON WSO	R N 3822	W 08136	939
46-1677	13	CLARKSBURG 1	N 3916	W 08021	977
46-1696	12	CLAY 1 SW	N 3827	W 08105	720
46-1723	12	CLENDENIN 1 SW	N 3829	W 08122	615
46-2054	12	CRESTON	N 3857	W 08117	660
46-2462	12	DRY CREEK	N 3752	W 08128	1264
46-2718	13	ELKINS WSO //R	N 3853	W 07951	1992
46-2920	13	FAIRMONT	N 3928	W 08008	1298
46-3072	13	FLAT TOP	N 3735	W 08106	3335
46-3215	13	FRANKLIN 2 NE	N 3840	W 07919	1900
46-3353	12	GARY //R	N 3722	W 08133	1426
46-3361	13	GASSAWAY	N 3840	W 08046	840
46-3544	13	GLENVILLE 2 NE	N 3857	W 08049	840
46-3648	13	GRANTSVILLE 2 NW	N 3856	W 08106	730
46-3846	13	HAMLIN	N 3817	W 08206	642
46-4200	13	HOGSETT GALLIPOLIS DAM	N 3841	W 08211	570
46-4393	13	HUNTINGTON WSO	N 3822	W 08233	827
46-4763	13	KEARNEYSVLE 1 NW WBSO	N 3923	W 07753	550
46-4816	12	KERMIT	N 3750	W 08224	629
46-5002	12	LAKE LYNN	N 3943	W 07951	900
46-5224	13	LEWISBURG 2 SSW	N 3746	W 08028	2185
46-5365	13	LONDON LOCKS	N 3812	W 08122	623
46-5563	13	MADISON	N 3803	W 08149	675
46-5621	13	MANNINGTON 1 N	N 3933	W 08021	975
46-5626	12	MANNINGTON 1 W	N 3932	W 08022	995
46-5707	13	MARTINSBURG FAA AP	N 3924	W 07759	537
46-5739	12	MATHIAS	N 3852	W 07852	1625
46-5871	13	MCROSS	N 3759	W 08045	2450
46-5963	13	MIDDLEBOURNE 2 ESE	N 3929	W 08052	750
46-6202	13	MORGANTOWN FAA AIRPORT	N 3939	W 07955	1240

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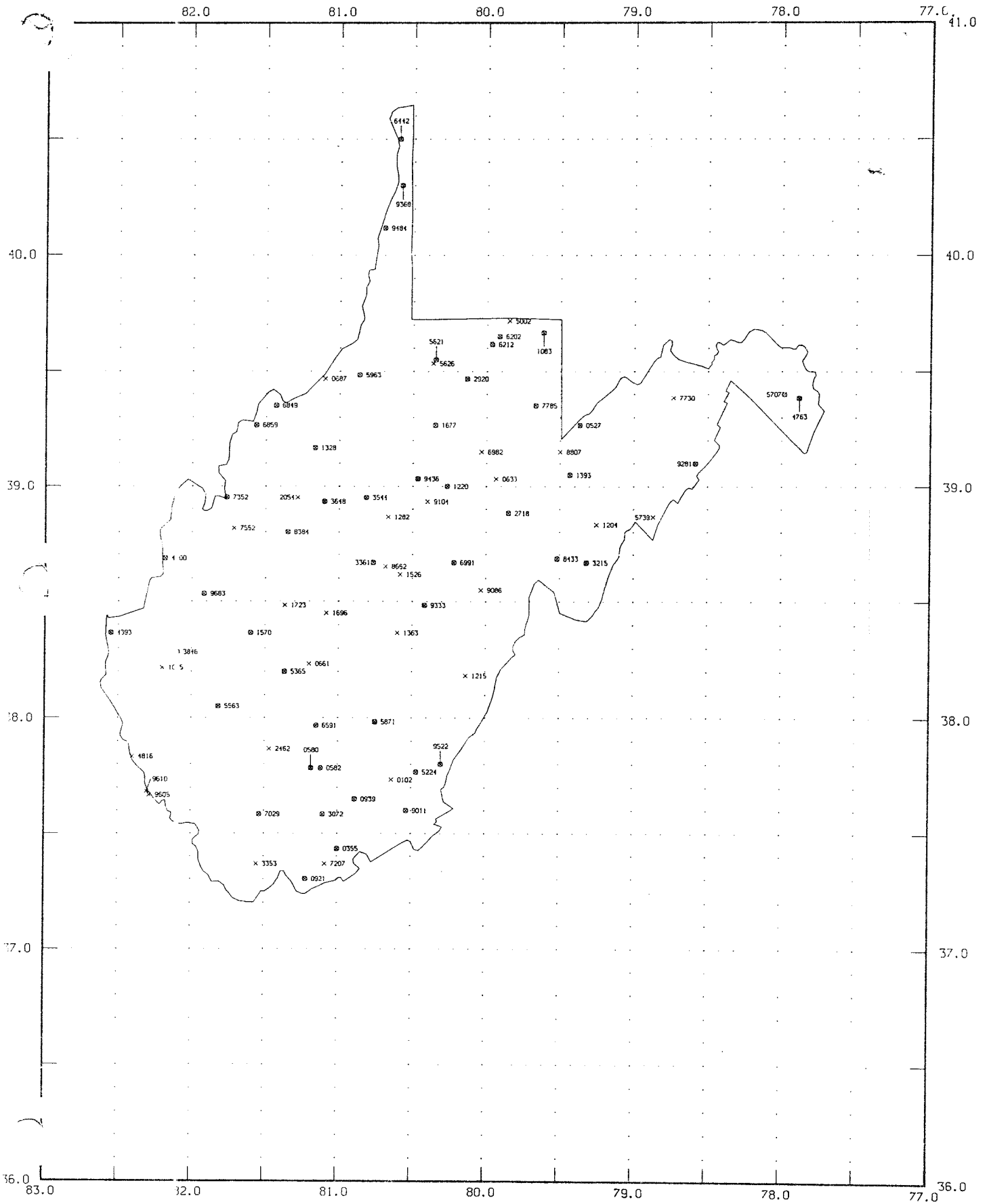
LEGEND

11 = TEMPERATURE ONLY
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STATE-STATION NUMBER	STN TYP	NAME	LATITUDE DEG-MIN	LONGITUDE DEG-MIN	ELEVATION (FT)
46-6212	13	MORGANTOWN L AND D	N 3937	W 07958	825
46-6442	13	NEW CUMBERLAND	N 4030	W 08036	750
46-6591	13	OAK HILL	N 3758	W 08109	1991
46-6849	13	PARKERSBURG FAA AP	N 3921	W 08126	831
46-6859	13	PARKERSBURG WSO	R N 3916	W 08134	615
46-6982	12	PHILIPPI	N 3909	W 08002	1281
46-6991	13	PICKENS 1	N 3840	W 08013	2750
46-7029	13	PINEVILLE	N 3735	W 08132	1280
46-7207	12	PRINCETON	N 3722	W 08105	2410
46-7352	13	RAVENSWOOD LOCK PARK	N 3857	W 08146	584
46-7552	12	RIPLEY	N 3849	W 08143	610
46-7730	12	ROMNEY 3 NNE	N 3923	W 07844	640
46-7785	13	ROWLESBURG 1	N 3921	W 07940	1400
46-8384	13	SPENCER	N 3848	W 08121	964
46-8433	13	SPRUCE KNOB	N 3841	W 07931	3050
46-8662	12	SUTTON RESERVOIR	N 3839	W 08041	835
46-8807	12	THOMAS	N 3909	W 07930	3070
46-9011	13	UNION	N 3736	W 08032	1975
46-9086	12	VALLEY HEAD	N 3833	W 08002	2425
46-9104	12	VANDALIA	N 3856	W 08024	1120
46-9281	13	WARDENSVILLE R M FARM	N 3906	W 07835	960
46-9333	13	WEBSTER SPRINGS 1 E	N 3829	W 08025	1540
46-9368	13	WELLSBURG 3 NE	N 4018	W 08035	668
46-9436	13	WESTON	N 3902	W 08028	1026
46-9484	13	WHEELING FILT PLANT	N 4007	W 08042	665
46-9522	13	WHITE SULPHUR SPRINGS	N 3748	W 08018	1920
46-9605	12	WILLIAMSON	N 3740	W 08217	673
46-9610	12	WILLIAMSON 2	N 3741	W 08218	657
46-9683	13	WINFIELD LOCKS	N 3832	W 08155	571

46 - WEST VIRGINIA

LEGEND
○ = TEMPERATURE ONLY
× = PRECIPITATION ONLY
⊗ = TEMPERATURE & PRECIPITATION



Normals for Substations

Individual station values (by year-month) of average temperature and total precipitation for the 1951-80 period are available at the National Climatic Center, Asheville, North Carolina, and may be obtained in either microfiche or magnetic tape for the cost of duplication. In addition, monthly extremes of precipitation and temperature are included along with the standard deviation of monthly temperatures. The National Climatic Center also prepares special studies of climatological elements to specifications provided by the requesting agency or person. The cost of providing such services is borne by the requester.

References

1. Thom, H. C. S., "The Rational Relationship Between Heating Degree Days and Temperature," Monthly Weather Review, Vol. 82, No. 1, January 1954.
2. Thom, H. C. S., "Normal Degree Days Above Any Base by the Universal Truncation Coefficient," Monthly Weather Review, Vol. 94, No. 7, July 1966.
3. Gerald L. Barger, editor, "Climatology at Work," U.S. Weather Bureau, Washington, DC, 1960.

NOTES

Table Contents

Precipitation normals less than .005 inch are shown as zero.
Monthly normals for February are based on a 28-day month.

Station Names

Figures and letters following the station name indicate a rural location, and refer to the distance and direction of the station from the nearest post office. WSO, WSMO, and WSFO denote a Weather Service Office, a Meteorological Observatory, and a Forecast Office, respectively. Station elevations are in feet above mean sea level. "R" or a "6" denotes a recording gage. "//" indicates a wind shield is affixed to the gage.

Pacific Stations

Stations located on islands other than Hawaii generally have short records (i.e., less than 30 years) and did not meet the criteria for computation of normals. Short-term or period averages are given for these stations.

Maps

Maps show the locations of stations for which 1951-80 normals have been prepared.

Degree Day Normals

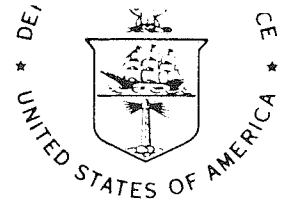
The usual arithmetical procedures were not applied to obtain the heating and cooling degree day data. The rational conversion formulae developed by Thom (1), (2) allow the properly adjusted mean temperature normals to be converted to degree day normals with uniform consistency. In some cases this procedure will yield a small number of degree day values that are unexpected. These cases occur when the standard deviations are computed from a mixed distribution as frequently occurs during the transition months. The unexpected values are low and unimportant for most applications of degree day data.

Local Climatological Data

Annual Summary With Comparative Data

1983

CHARLESTON, WEST VIRGINIA



Narrative Climatological Summary

Charleston lies at the junction of the Kanawha and Elk Rivers in the western foothills of the Appalachian Mountains. The main urban and business areas have developed along the two river valleys, while some residential areas are in nearby valleys and on the surrounding hills. The hilltops are around 1100 feet above sea level, about 500 feet higher than the valleys. The Kanawha Airport is just over 2 miles northeast of the center city area, on an artificial plateau constructed from several hilltops.

Weather records are maintained at the Kanawha Airport by National Weather Service personnel. This site tends to be slightly cooler than the river valleys during the afternoons. Conversely, the valleys can become cooler than the hilltops during clear, calm nights. The weather at Charleston is highly changeable, especially from mid-autumn through the spring. During this period, both Arctic and tropical air often move over the region.

Winters can vary greatly from one season to the next. Historically, total annual snowfall has ranged from less than 5 inches to more than 50 inches. Snow does not favor any given winter month. Each of the months from November through March has produced the seasonal maximum and minimum for snow. Heavy snowstorms are infrequent, and most snowfalls are in the 4-inch or less category. Snow and ice usually do not persist on valley roads, but can linger longer on nearby hills and outlying rural roads. A white Christmas morning can be expected about 20 percent of the time.

Afternoon temperatures in the 40's and morning readings in the 20's are common during the winter. Yet, every winter typically has two or three extended cold spells when temperatures stay below freezing for a few consecutive days. Northwesterly winds are associated with the cold weather. Air reaching Charleston from the

northwest is primarily ascending toward higher elevations. This can cause cloudiness and flurries, even when there is no nearby organized storm system. Winter conditions are much more severe over the higher mountains less than 50 miles to the northeast through southeast.

Temperatures warm rapidly in the spring and are accompanied by low daytime humidities.

Summer and early autumn have more day-to-day consistency in the weather. Sunshine is more abundant than in winter. Summer precipitation falls mostly in brief, but sometimes heavy, showers. Flash flooding can occur along small streams, but flooding is rare on the dam-controlled Kanawha and Elk Rivers.

Afternoon summer temperatures are mostly in the 80's. Readings above 95° are rare. However, during a hot spell, haze and humidity can add to the unpleasantness. Indoor air conditioning is recommended. Cooler and less humid air often penetrates the area from the north to end a hot spell.

Early morning fog is common from late June into October. At the airport, dense fog is usually associated with a very light northerly wind.

Industrial and vehicular pollutants can contribute to limited visibility any time of the year, especially when cooler air becomes trapped in the valleys. Autumn foliage is generally at its peak during the second and third weeks of October. By the end of October, the first 32° temperature has usually arrived.

Ample precipitation is well distributed throughout the year. July is quite often the wettest month of the year, while October averages the least rain. Droughts severe enough to limit water use are scarce. Any dry spells during the spring or autumn can cause conditions favorable for brush fires in outlying areas.

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ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, N.C.

STATION LOCATION

CHARLESTON, WEST VIRGINIA

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above										Automatic Observing Equipment *	Remarks
						Sea level	Ground										
							Ground at temperature site	Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	5" rain gage	Hygrothermometer		
COOPERATIVE																	
Unknown	1855	1899															
Kanawha River River Gage	1899	1902				555											
Unknown Observer C. W. Gibbs	6/1/02	2/29/04															
Quarrier Street Observer R. C. Hewes	3/2/04	3/18/05															
Quarrier Street Observer Mary E. Hewes	3/19/15	5/31/15															
Roof Federal Building 1/4 mile West of P. O.	6/1/15	9/25/24		38° 21'	81° 38'	600		70						70			
No. 1 Brooks Hollow US Corps of Engineers Malden Road	9/26/24	9/30/33	3.25 mi. SE	38° 20'	81° 35'	600		*4						*3		* Heights estimated.	
1001 Virginia Street	10/1/33	12/31/33	2.88 mi. NW	38° 21'	81° 38'	602		*4						*3			
Dam No. 6 South Charleston	2/19/34	8/31/34	3.75 mi. SW	38° 22'	81° 42'	604		*4						*3			
Charleston Daily Mail 1/4 mile West of P. O.	8/16/34	6/1943	3.88 mi. NNE	38° 21'	81° 38'	600		70						70		No record from April 1942 through April 1943.	
8 Woodward Court	7/1943	5/27/44	1.25 mi. NNW	38° 21'	81° 38'	650		*4						*3			
269 Slack Street	11/22/44	Present	1.75 mi. ENE	38° 21'	81° 38'	615		22						1			
AIRPORT																	
Terminal Building Kanawha Airport 2.5 miles NE of P. O.	11/29/47	9/13/50	NA	38° 22'	81° 36'	950	26	4	4					3		Official records from Airport data after 12/1/47.	
Terminal Building Kanawha Airport	9/13/50	5/16/79	100 feet E	38° 22'	81° 36'	950 f939	80 a85 f32	61 c5 h4	61 d h5 j k4	NA	i3	5 b3 m5	59 e3	g4	NA	a - Effective 3/15/51. b - Minor move 6/2/54. c - Moved to field site 6/2/54. d - Removed 6/2/54. e - Moved to field site 11/30/54. f - Moved to field site 6/22/55. g - Telepsychrometer (5') 6/2/54-12/7/60. Hygro. comm. 1375' NE of tele. site 12/7/60. h - Effective 12/7/60. i - Installed 12/1/61. j - Removed 11/24/62. k - Added 9/8/64. m - Moved 50' E 6/8/72. n - Not moved 5/16/79.	
NWS Building Kanawha Airport	5/16/79	Present	app. 0.5 mi. SE	38° 22'	81° 36'	1016	n32	NA	4	NA	3	4	3	n4	NA		

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801, ATTN: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records received at the National Climatic Data Center, Asheville, North Carolina 28801.

J. Ray Hix
Acting Director
National Climatic Data Center

USCOMM-NOAA-ASHEVILLE - 1125

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Local Climatological Data

Annual Summary With Comparative Data

1983

HUNTINGTON, WEST VIRGINIA

APPENDIX 3 (con't)

JUL 20 1984



Narrative Climatological Summary

The Tri-State Airport is near the confluence of the Ohio and Big Sandy Rivers, located on a man-made plateau constructed by cutting the tops of several hills and filling intervening valleys. The elevation of the ground at the National Weather Service Office is 260 feet higher than at the Federal Building in downtown Huntington, and a similar difference in elevation is generally applicable with respect to valleys in the vicinity of Huntington.

The temperature record for the valley locations, 1893 through 1960, is not compatible with that for the airport, which is generally cooler throughout the year. The summer season is moderately warm and humid, with the valley locations considerably warmer and more humid than the Tri-State Airport site. The winter months are moderately cold, with an occasional severe cold wave lasting a few days. The 4 seasons are near equal in length and autumn is the most pleasant, with warm days and cool nights.

The heaviest rainfall occurs in July and August, mostly in thunderstorms, and flash floods are common in the area. The winter rainfall occurs mostly prior to and with a frontal passage and frequently lasts from 2 to 4 days, causing frequent general flooding on all streams.

Snow seldom remains on the ground more than 2 days in the valleys; however, at higher elevations surrounding the airport, roads are frequently blocked for several days during the winter months.

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DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, N.C.

STATION LOCATION

HUNTINGTON, WEST VIRGINIA

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above										Automatic Observing Equipment *	Remarks
						Sea level	Ground										
							Ground at temperature site	Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighting rain gage	8" rain gage	Hygrothermometer		
COOPERATIVE																	
1326 Sixth Avenue Huntington	1/1/93	7/31/27		38° 25'	82° 27'	567		6									
406 Homestead Place near 4th Avenue & 24th Street	12/9/28	9/2/30	1-1/4 mi. E	38° 25'	82° 26'	548		6									
128 N. 28th Street 1st Ave. & 28th Street	9/2/30	5/1/50	3/4 mi. E	38° 26'	82° 24'	567		6									
AIRPORT																	
Huntington AP, Maves Field, 2.3 miles W of P. O. at Chesapeake, Ohio	10/11/34	9/27/48		38° 25'	82° 30'	565	26		6				a3		a - Installed 1/17/40.		
Huntington AP CAA	9/28/48	12/31/59	#	38° 25'	82° 30'	560	28	5	5					3	# - Instrument relocations and addition.		
CITY																	
4th Avenue & 8th Street, Huntington, Cabell Co., Court House	4/4/49	1/11/60	2-1/2 mi. E of CAA AP	38° 25'	82° 27'	565			53				55	53			
Federal Building	1/11/60	1/31/62	300 ft. SE	38° 25'	82° 27'	567			86				86		Temperatures discontinued 12/31/61.		
AIRPORT																	
Tri-State AP Huntington	12/1/61	Present	8.4 mi. WSW of Federal Building	38° 22'	82° 33'	827	20	NA	b15	NA	13	13	NA	4	NA	b - Added as standby 1/1/74.	

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records received at the National Climatic Data Center, Asheville, North Carolina 28801.

L. Fay Hoxie
Acting Director
National Climatic Data Center

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NATIONAL WEATHER SERVICE
501 EAGLE MOUNTAIN RD. KANAWHA AIRPORT
CHARLESTON, WV 25311



STATE OF WEST VIRGINIA
DEPARTMENT OF AGRICULTURE
CHARLESTON
25305

Gus R. Douglass
Commissioner

October 17, 1985

*Recd
10-21-85*

Mr. John Linthicum
Room 6237
Bureau of Alcohol, Tobacco and Firearms
1200 Pennsylvania Avenue, NW
Washington, DC 20226

Dear Mr. Linthicum:

Enclosed is the revised documentation in support of Dr. Wilson Ward's petition for the establishment of the Kanawha River Valley viticulture area. There are additional appendices attached to the enclosed packet, these are in addition to the previously submitted material.

I hope these revisions are appropriate and satisfactory. Please let us know if additional revisions or information is required.

The topographical maps have been sent under separate cover.

Thanks for your help.

Sincerely,

Robert L. Williams
Plant Pathologist

RLW/bk

Enclosure

Documentation in Support of
the Petition to Establish the

KANAWHA RIVER VALLEY VITICULTURE AREA

April 19, 1985

Revised October 15, 1985

General Description

The proposed Kanawha River Valley viticultural area consists of approximately 1,050 square miles. There are fourteen (14) acres of grapevines growing in the proposed area and one (1) winery.

The area is wholly in the State of West Virginia and is completely within the boundaries of the Ohio River Valley viticulture area. Six (6) West Virginia counties (Putnam, Cabell, Kanawha, Mason, Jackson and Lincoln) are either partially or wholly included in the proposed area.

History shows that the traditions of grape growing and winemaking are rich in the Kanawha River Valley. The recently reconstructed wine cellars at Dunbar, WV are a historic remnant of a flourishing viticulture which existed in the Kanawha River Valley as early as 1826. Several hundred acres of grapes were planted in the 1850's. The first commercial venture into grape growing was probably established by Thomas Friend about 1856. The Civil War brought an untimely end to this enterprize. Appendix 1 contains a history of the Dutch Hollow Wine Cellars.

Viticulture was again started in this area in 1967 and has expanded to its present state as a small but flourishing industry with an excellent potential.

Name

There is extensive literature supporting the use of the name Kanawha River Valley. The name is believed to be derived from an obscure tribe of indians which camped near the river. It is thought the tribe was known by a name similar to Kanawha. The

name Kanawha River was used for the river on the survey maps when George Washington was the owner of the land now known as the Kanawha River Valley.

The Kanawha River is formed by the confluence of the New River and the Gauley River and flows approxiamtely 97 miles in a northwesterly direction to a point where it flows into the Ohio River at Point Pleasant.

The name Kanawha River Valley and the abbreviated Kanawha Valley have been used locally and nationally for many years. The enclosed copies (Appendix 1A) of advertisements from the telephone yellow pages and the letter and maps from the Greater Kanawha Valley Foundation serve to document the local use of the name. The map (Appendix 1B) taken from a study of the Kanawha River Basin documents the area considered to be the watershed of the Lower Kanawha River basin and also the use of the name by agencies of the federal government.

Boundary

The Kanawha River Valley viticultural area is located entirely in West Virginia and the Ohio River Valley viticultural area. The boundary description is included in the following paragraphs.

1. The beginning point is at the confluence of Champaign Creek and the Ohio River on the West Virginia-Ohio boarder (Addison quadrangle).
2. The boundary follows the West Virginia-Ohio State line in a southwesterly direction to the point in which the West Virginia state line meets the junction of the Mason County and Cabell County boundarys. (Glenwood quadrangle)
3. The boundary proceeds in a straight line southeasterly to the community of Balls Gap in Lincoln County. (West Hamlin quadrangle)

4. The boundary proceeds due east in a straight line to the community of Lower Falls in Kanawha County. (Alum Creek quadrangle)

5. The boundary proceeds northeasterly to a point where the Saint Albans corporate limits crosses U.S. Route 60 at its easternmost point. This is also a point where the Kanawha River Valley viticulture area contacts the boundary of the Ohio River Valley viticulture area. (Saint Albans quadrangle)

6. The boundary proceeds in a straight line northeasterly, following the Ohio River Valley viticulture area boundary to the community of Pocatalico in Kanawha County. (Pocatalico quadrangle)

7. The boundary proceeds in a straight line northeasterly to the community of Romance in Roane County. (Romance quadrangle)

8. The boundary proceeds in a straight line northwesterly to the community of Plum Orchard in Jackson County. (Kenna quadrangle)

9. The boundary proceeds in a straight line northwesterly to the community of Evans in Jackson County. (Collageville quadrangle)

10. The boundary proceeds in a straight line northwesterly to the community of Flatrock in Mason County. (Beech Hill quadrangle)

11. The boundary proceeds in a straight line northwesterly to the beginning point.

DISTINGUISHING CHARACTERISTICS

Viticulture

The existing vineyards within the proposed viticulture area are quite different in location and makeup from those of the surrounding areas. All of the vineyards are located at elevations above 900 feet above sea level (maps enclosed). This is done to take advantage of the prevailing winds, the air drainage and the general topography.

The fourteen acres are divided among five (5) owner-operators with the largest vineyard being seven (7) acres of grapevines and the smallest being one-half (0.5) acres of grapevines. The makeup of the vineyard is almost exclusively french hybrid varieties and vinifera varieties. Of the fourteen (14) acres in grapevines approximately eight and one-half (8.5) acres are planted to french hybrid types, five (5) acres are planted to vinifera types and only one-half (0.5) acre is planted to labrusca types.

The fact that vinifera types can grow and produce in the vineyards of the proposed area differentiate it from the surrounding area.

Soils

The proposed Kanawha River Valley viticultural area is in the Central Allegheny Plateau (Land Resources Area 126) Region (Appendix 2). This region is underlain by shale, siltstone and some limestone of Permian and Pennsylvania Age. Most of the area is steep to very steep except for the less sloping areas adjacent to the major drainages. The growing season is 150-185 days. The major soil types in the proposed viticulture area are Gilpin, Upshur, and Vandalia. The minor types include Linside and Ashton confined to the flood plain of the Kanawha River and Monongahela.

Gilpin soils with appropriate slope have a good potential for the commonly grown cultivated crops, however, erosion can be a problem if poorly managed. Soils of the Gilpin-Upshur complex are also suitable for the commonly grown cultivated crops and pastures. The erosion hazard in unprotected areas is a major management concern. Permeability is

moderate in the subsoil of the Gilpin soil and slow in the subsoil and substratum of the Upshur soil. In unlimed areas the Gilpin is strongly to very strongly acid and the Upshur soil is strongly acid to slightly acid. Natural fertility is low to moderate in the Gilpin soil and moderate to high in the Upshur soil.

Vandalia soils are commonly on the foot slopes and have similar characteristics of the Gilpin-Upshur complex of the uplands.

Climate

The Kanawha River Valley lies beyond the immediate climatic effects of the Atlantic Ocean. Its climate is classified as continental, exhibiting marked temperature contrasts between summer and winter. The average annual temperature is approximately 52° F. In winter the average temperature minimum is in the 20's while the average maximum is in the upper 40's. Average summer minimum temperature range from the middle 50's to the middle 60's while the average maximum temperatures generally exceed 85° F. Temperatures near or in excess of 100° F have been recorded at most observation stations in the valley.

The prevailing winds are westerly but are frequently interrupted by northward and southward surges of relatively warm and cold air.

The average annual precipitation over the Kanawha River Valley basin is approximately 43.5 inches. Precipitation is fairly well distributed throughout the year. Monthly precipitation averages indicate that the average varies from a low of 2.69 inches in October to a high of 4.88 inches in July. The average precipitation for all months was 3.65 inches (Appendix 3).

Maps

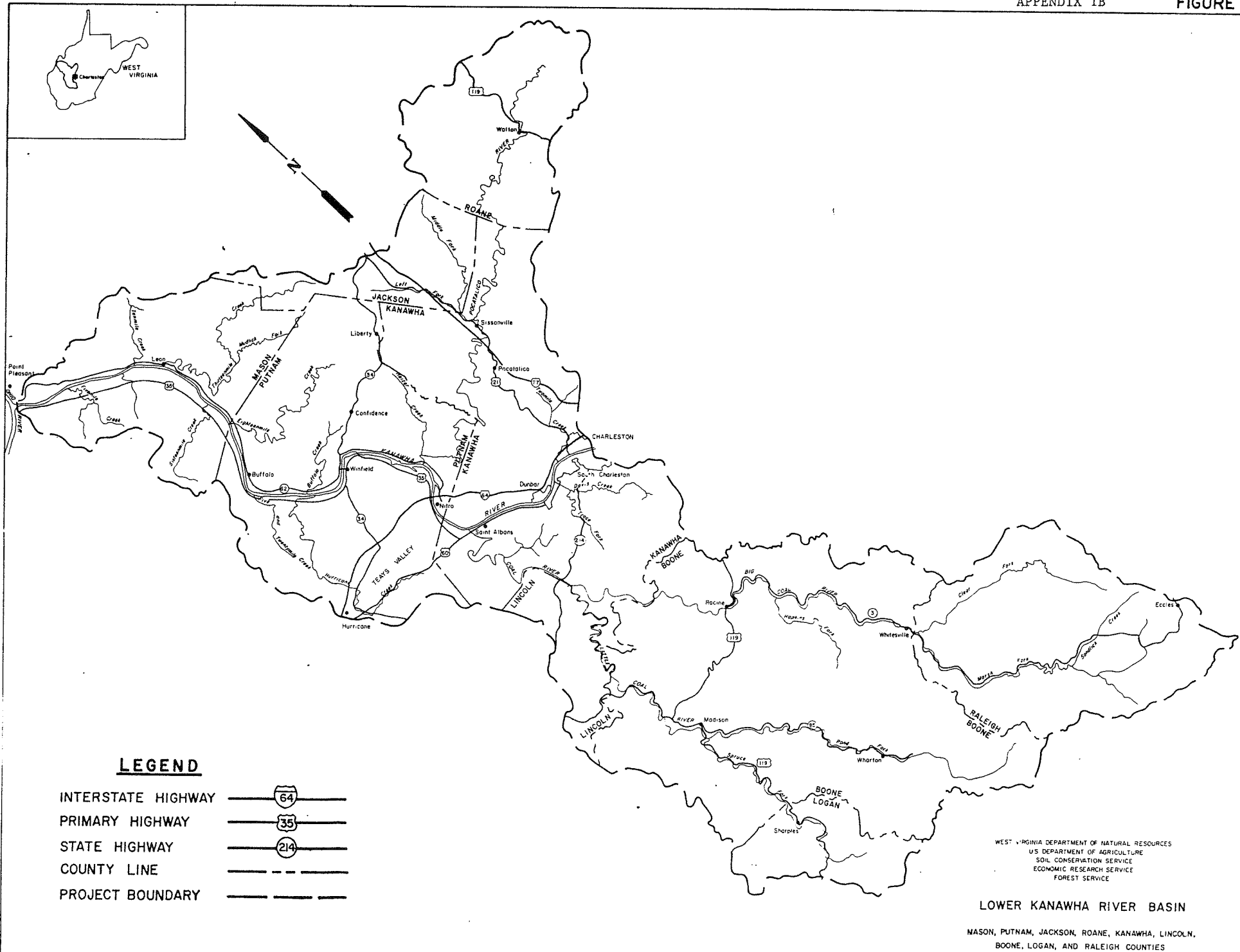
The following maps contain the area proposed as the Kanawha River

Valley viticultural area. They are USGS topographical maps in the scale 1:24,000 as follows:

1. Sissonville, WV (dated 1958)
2. Bancroft, WV (dated 1958)
3. Garrett's Bend, WV (dated 1958)
4. Gallipolis, Ohio-WV (dated 1958)
5. Pocatalico, WV (dated 1958)
6. Beech Hill, WV (dated 1957, revised 1975)
7. Alum Creek, WV (dated 1958, revised 1971)
8. Addison, Ohio-WV (dated 1960)
9. Cheshire, WV-Ohio (dated 1968)
10. Glenwood, WV-Ohio (dated 1968)
11. Kenna, WV (dated 1957)
12. Elmwood, WV (dated 1958)
13. Robertsburg, WV (dated 1958)
14. Milton, WV (dated 1972)
15. Mt. Olive, WV (dated 1958)
16. Winfield, WV (dated 1958)
17. Scott Depot, WV (dated 1958)
18. Saint Albans, WV (dated 1958)
19. Hurricane, WV (dated 1958)
20. Mt. Alto, WV (dated
21. Ripley, WV (dated 1960)
22. Cottageville, WV (dated 1960)
23. Apple Grove, Ohio-WV (dated 1968, revised 1975)
24. Arlee, WV (dated 1958)
25. West Hamlin, WV (dated 1957)
26. Hamlin, WV (dated 1958)
27. Kentuck, WV (dated 1957)
28. Romance, WV (dated 1958)

References

1. Anonymous. 1982. Monthly Normals of Temperatures, Precipitation, and Heating and Cooling Degree Days 1951-80, West Virginia. NOAA, Nat. Climatic Ctr. Asheville, NC.
2. Anonymous. 1984. Local Climatological Data 1983, Charleston, West Virginia. NOAA. Nat-Climatic Ctr. Asheville, NC.
3. Anonymous. 1984. Local Climatological Data, 1983. Huntington, West Virginia. NOAA. Nat. Climatic Ctr. Asheville, NC.
4. Gorman, J.C. and J.B. Rayburn, 1961. Soil Survey of Jackson and Mason Counties, West Virginia. USDA, Soil Conservation Service.
5. Harris, V.B., 1964. History of the Kanawha Valley.
6. Marshall, P.D., 1977. Architectural Research and Evaluation Report, Restoration and Reconstruction, Historic Wine Cellars, Dutch Hollow, Dunbar, West Virginia.
7. Van Houten, D.G., F.D. Childs, C.C. Teets, R. Estepp, and F.A. Doonan, 1981. Soil Survey of Kanawha County, West Virginia, USDA, Soil Conservation Service.



WEST VIRGINIA DEPARTMENT OF NATURAL RESOURCES
 US DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 ECONOMIC RESEARCH SERVICE
 FOREST SERVICE

LOWER KANAWHA RIVER BASIN

MASON, PUTNAM, JACKSON, ROANE, KANAWHA, LINCOLN,
 BOONE, LOGAN, AND RALEIGH COUNTIES



THE GREATER KANAWHA VALLEY FOUNDATION

POST OFFICE BOX 3041, CHARLESTON, WEST VIRGINIA 25331
1210 COMMERCE SQUARE, CHARLESTON, WEST VIRGINIA 25301
TELEPHONE: 304 346-3620

October 3, 1985

Mr. Bob Williams
Plant Pest Control Division
WV Department of Agriculture
State Capitol Building
Charleston, West Virginia 25305

Dear Mr. Williams:

The Greater Kanawha Valley Foundation is a community Foundation located in Charleston, West Virginia which makes grants to non-profit organizations in various fields of endeavor. We also have several scholarship Funds which we administer and from which scholarship grants are made to West Virginia students. I am enclosing a copy of our 1984 Annual Report for further explanation of our organization.

For each of our two main program areas, discretionary grants and scholarship grants, we have a definition for what we consider to be the "greater Kanawha Valley". Enclosed you will find maps indicating the following:

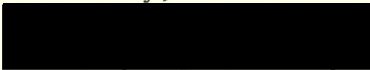
Map #1 - the greater Kanawha Valley as defined for
The Greater Kanawha Valley Foundation
Scholarship Program.

Map #2 - the greater Kanawha Valley as defined for
The Greater Kanawha Valley Foundation
discretionary grant program.

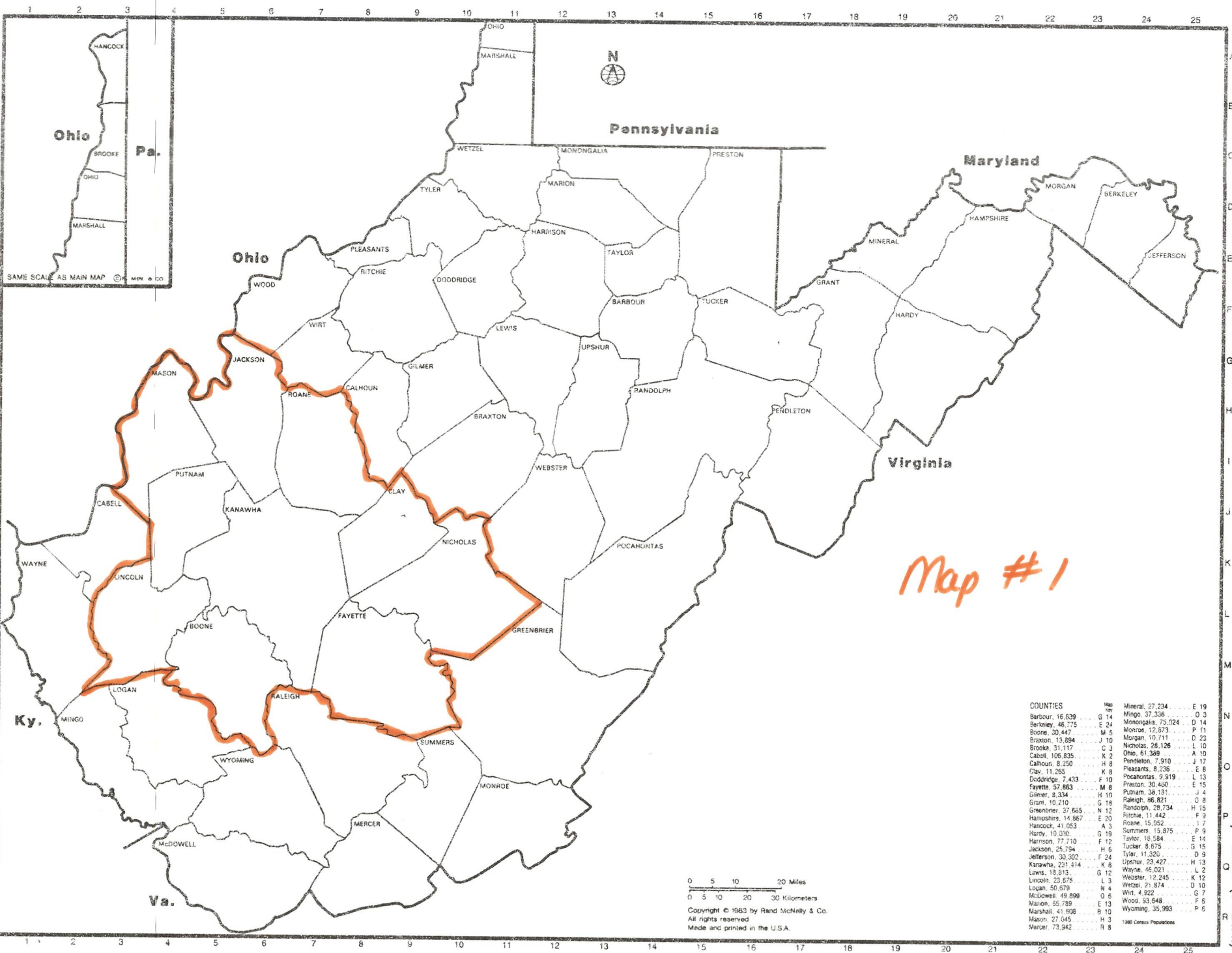
As you can see, Map #1 roughly follows the Kanawha River watershed with inclusion of an entire county if part of it falls within the watershed boundaries. Map #2 incorporates Charleston and environs, roughly a 30 miles radius of Charleston, bounded on the east end of the Kanawha Valley by Montgomery, WV and bounded on the west end of the Kanawha Valley by the western end of Putnam County.

Please let me know if we may be of further service to you.

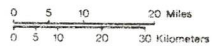
Sincerely,


Betsy VonBlond
Administrative Assistant

For statistical and locational information relating to places shown on this map see the Rand McNally Green Guide, Yellow Guide and Commercial Reference Map and Guide.



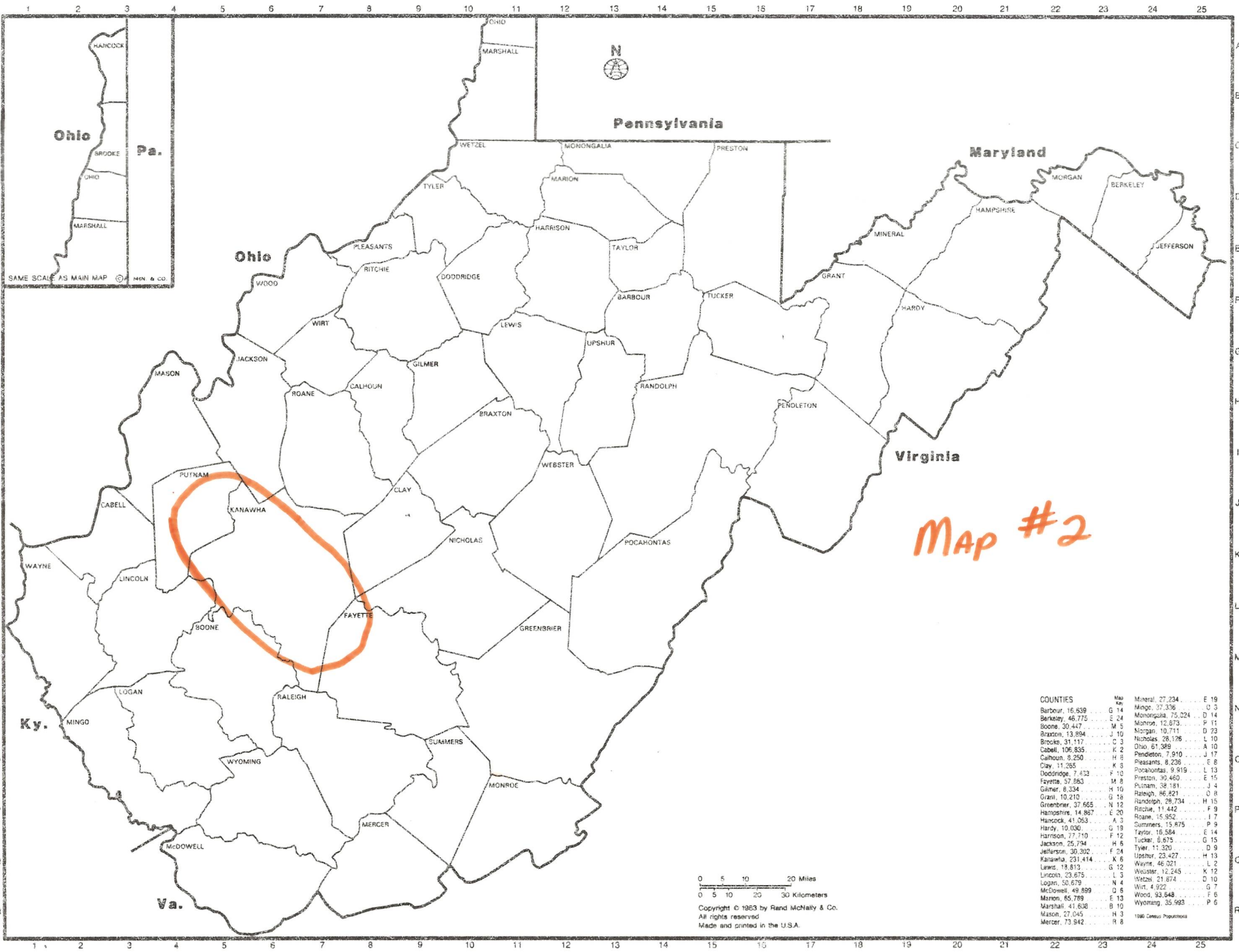
Map #1



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COUNTIES	Pop.	Pop. Density	COUNTIES	Pop.	Pop. Density
Barbour, 16,639	G 14	Mineral, 27,234	E 19		
Berkeley, 46,775	E 24	Mingo, 37,336	O 13		
Boone, 30,447	M 5	Monongalia, 15,924	D 14		
Braxton, 13,894	J 10	Monroe, 12,873	P 11		
Brooks, 31,117	C 3	Morgan, 19,711	D 23		
Cabell, 106,835	K 2	Nicholas, 28,126	A 10		
Calhoun, 8,250	H 8	Ohio, 61,369	A 10		
Clay, 11,265	H 10	Pendleton, 7,910	J 17		
Clayton, 7,433	F 10	Pleasants, 8,236	E 8		
Fayette, 57,883	M 8	Pocahontas, 9,919	L 13		
Gilmer, 8,334	H 10	Preston, 30,480	E 15		
Grant, 10,210	G 19	Putnam, 38,181	J 4		
Greenbrier, 37,605	N 12	Raleigh, 86,821	O 8		
Hampshire, 14,967	E 20	Randolph, 28,734	H 15		
Hancock, 41,053	A 5	Ritchie, 11,442	H 15		
Hardy, 10,030	G 19	Roane, 15,052	I 7		
Harrison, 77,710	F 12	Summers, 15,875	P 9		
Jackson, 25,794	H 5	Taylor, 18,584	E 14		
Jefferson, 30,302	F 24	Tucker, 8,675	G 15		
Kanawha, 231,414	K 6	Tyler, 11,320	O 9		
Lewis, 18,613	G 12	Upshur, 23,427	H 13		
Lincoln, 23,675	L 3	Wayne, 46,021	L 2		
Logan, 50,679	N 4	Webster, 12,245	K 12		
McDowell, 49,899	O 6	Wetzel, 21,874	D 10		
Marion, 55,789	E 13	Whit, 4,322	G 7		
Marshall, 41,808	B 10	Wood, 35,648	F 6		
Mason, 27,045	H 3	Wyoming, 35,993	P 6		
Mercer, 73,942	R 8				

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MAP #2

COUNTIES	Pop.	State	County		
Barbour	16,639	G 14	Mineral	27,234	E 19
Berkeley	46,775	E 24	Monongalia	75,024	D 14
Boone	30,447	M 5	Monroe	12,873	P 11
Braxton	13,894	J 10	Morgan	10,711	D 23
Brooks	31,117	C 3	Nicholas	28,126	L 10
Cabell	106,635	K 2	Ohio	61,369	A 10
Calhoun	9,250	H 8	Pendleton	7,910	L 17
Clay	11,265	K 8	Pleasants	8,236	E 8
Doddridge	7,453	F 10	Pocahontas	9,919	L 13
Fayette	37,563	H 10	Preston	30,460	E 15
Gilmer	8,034	H 10	Putnam	38,181	J 4
Grant	10,210	G 18	Raleigh	46,821	O 8
Greenbrier	37,665	N 12	Randolph	29,734	H 15
Hampshire	14,867	E 20	Roane	15,952	F 9
Hancock	41,053	A 3	Summers	15,875	P 9
Hardy	10,030	G 19	Taylor	16,584	E 14
Harrison	77,710	F 12	Tucker	6,675	G 15
Jackson	25,734	H 6	Tyler	11,320	D 9
Jefferson	30,302	F 24	Upshur	23,427	H 13
Kanawha	231,414	K 6	Wayne	49,021	L 2
Lewis	18,813	G 12	Wetzel	12,245	K 12
Lincoln	23,875	L 3	Wetzel	12,245	K 12
Logan	50,679	N 4	Wirt	4,922	G 7
McDowell	49,899	O 6	Wood	33,648	F 6
Mason	65,789	E 13	Wyoming	35,593	P 6
Marshall	41,636	H 10			
Martin	27,045	H 3			
Mercer	73,942	R 8			

0 5 10 20 Miles
0 5 10 20 30 Kilometers
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For statistical and locational information relating to places shown on this map, see the Rand McNally Green Guide, Yellow Guide and Commercial Reference Map and Guide.

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2022-5-6
GN5

From previous page) & Trust
 e ----- 345-8550
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 ----- 348-8364
 Programs ----- 348-8365
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 sory ----- 348-8362
 ement ----- 348-8360
 ----- 348-8312
 Not Listed Above
 ----- 348-8400
 Temple
 ain ----- 345-1028
TICK & BLOCK
 Av Nitro ----- 722-4601
TELEVISION
 182a ----- 722-2933
 Rental 504 Capitol ----- 343-9531
 Co Charleston ----- 744-9484
 Co 310 57th St ----- 925-6892
 ton Health Dept
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CHARLESTON ASSOCIATION
TELETYPE CENTER
 1st St ----- 342-1576
 movie info ----- 925-1212
 St ----- 925-0963
 thist Church
 SE ----- 925-7132
 rest
 E ----- 348-8334
TY FLORIST
 Av SE ----- 925-2131
TY MOTOR
 MacCorkle Av SE 344-2461
 ings & Loan
 ----- 925-0301
 erinary Hospital
 Av SE ----- 925-4974
 rs Assn
 Bldg ----- 342-3195
 Relics 712 Fife St ----- 342-8081
 Relics
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UNTRY
 ----- 744-9646
 is ----- 744-2355
 Club Number 8
 ----- 768-4614
 Emergency
 essage or Non-emergency Calls
 r Sts ----- 345-2312
 Housing &
 it Authority
 ----- 344-5141
 Of - See Blue Pages
 Of 409 Virginia St E 357-0100
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 Of Board Of
 ----- See Blue Pages
 Parks &
 Commission
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 Republican
 imittee
 ington St Charleston 345-5025
 Sheriff Elkview
 19 Main St ----- 965-7074
 Sheriff
 etachment
 - Belle Tel No-949-2185
 Sheriff St Albans
 35 ----- 722-4911
REDGING & COMPANY
 g Tyler Rd ----- 343-5232
RUG CO THE
 ----- 343-5507
 ----- 343-4154
ELECTRIC CO-
 Av SE ----- 925-6691
 ll ----- 925-6320
 ll ----- 776-2198
 umental Services
 Av South Charleston 744-6731
ODD
IT SUPPLY
INC
 nd Dr ----- 344-2489

Kanawha Gardens Inc 302 25th St - 768-3314
 Kanawha Glass Corp W Dunbar - 768-5311
 Kanawha Grill 105 Summers St - 342-9440
KANAWHA HOME HARDWARE INC
 8709 MacCorkle Av ----- 949-4151
KANAWHA HOSPICE CARE INC
 3200 MacCorkle Av SE ----- 348-9506
KANAWHA INVENTORY SERVICE
 4 Dreamview Ln ----- 343-9885
 Kanawha Investment Co
 Peoples Bldg ----- 342-7015
KANAWHA JANITOR SERVICE
 504 Capitol St ----- 343-9531
 Kanawha Landscaping Service
 1626 Coonskin Dr ----- 346-4567
 Kanawha Lodge 25 I O F
 Odd Fellows Hall ----- 343-1051
KANAWHA MALL
 MacCorkle Av SE ----- 925-4921
KANAWHA MANUFACTURING CO
 Ofc 1520 Dixie ----- 342-6127
 Kanawha Medical Society ofc
 Atlas Bg ----- 342-1161

KANAWHA MOBILE GLASS INC
 878 Oakwood Rd -- 345-6060

Kanawha Orchard Public Service
 District 208 Rocky Step Rd ----- 757-8433
 Kanawha Pastoral Counseling
 Center Inc 16 Broad St ----- 346-9689
KANAWHA PLAYERS workshop
 5315 MacCorkle Av SE ----- 925-5051
 Ticket ofc 5315 MacCorkle Av SE ----- 925-2372
 Kanawha Plumbing-Heating-Cooling
 Contractors Assn
 405 Pennsylvania Av ----- 342-7141
 Kanawha Realty & Development
 Corp ri est 1143 Barlow Dr ----- 343-4301
 Kanawha Realty & Development
 Corp ri est 1204 Kanawha Blvd ----- 343-4301
 Kanawha Salines Presbyterian
 Church Salines Drive ----- 925-7016
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 Rock Branch Industrial Pk ----- 755-8321
 Kanawha Speech & Hearing Center
 Brooks St & Elmwood Av ----- 348-5444
 Kanawha State Forest
 Administration Bg Chas ----- 346-5654
 Murdock Tommy J supt Chas ----- 346-5654

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 Kanawha Teachers Association
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 Union 1596 Lee E ----- 348-6648
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 Fellowship Hall 1009 Va E ----- 727-7931
KANAWHA UNITED PRESBYTERIAN
 Church ofc 1009 Va E ----- 342-6558
 Fellowship Hall 1009 Va E ----- 342-6894
KANAWHA URGENT MEDICAL CARE CENTER
 30 MacCorkle Av SW
 South Charleston ----- 744-1436
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 Kanawha Valley Adjustments Inc
 1416 Viewmont Dr ----- 343-7441
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 1509 Hanford ----- 342-0932
KANAWHA VALLEY AIR FREIGHT
 Kanawha Airport ----- 343-4544
 Kanawha Valley Answering Service
 Noyes Bldg ----- 343-5636
 Kanawha Valley Bank St Albans Mall
 ----- 727-7581

KANAWHA VALLEY BANK NA-
 Summers & Lee Sts 348-7000
 Personal Banking ----- 348-7000
 New Checking & Savings Accounts ----- 348-7000
 Newcomer Services ----- 348-7000
 (Continued Next Column)

(Continued-From previous column)
KANAWHA VALLEY BANK NA-
 Customer Account Information-
 Checking-
 Balance Information ----- 348-7039
 Stop Payment Orders ----- 348-7242
 Loan Balance Information ----- 348-7039
 Savings-
 Balance Information ----- 348-7039
 MasterCard Balance Information ----- 348-7039
 Other Savings Information ----- 348-7045
 Collection-Non-Cash Items ----- 348-7242
 Consumer Loan Applications ----- 348-7300
 Drive-In-
 One Valley Square ----- 348-7063
 Laidley St ----- 348-7203
 Jeanie's Private Line Bill Payment ----- 343-2227
 Jeanie 24 Hour Banking ----- 348-7000
 MasterCard And Valley Credit-Plus ----- 348-7000
 BankCard Center ----- 348-7343
 Safe Deposit Boxes ----- 348-7065
 Travelers Checks & U S Savings
 Bonds ----- 348-7242
 Other Bank Departments-
 Commercial Banking-
 Business Loans ----- 348-7279
 Business Loan Note Teller ----- 348-7285
 Corporate Cash Management ----- 348-7021
 Equipment Leasing ----- 348-7353
 Correspondent Banking ----- 348-7333
 Data Processing Services ----- 348-7254
 Employment Services ----- 348-7028
 Executive Banking GAIN ----- 348-7381
 Investment Division ----- 348-7256
 Discount Brokerage ----- 348-7256
 Municipal Bonds ----- 348-7256
 Treasury Bonds ----- 348-7256
 Marketing Division ----- 348-7077
 Real Estate Loans
 Applications ----- 348-7067
 Balance Information ----- 348-7074
 Trust Division
 Corporate Trust ----- 348-7239
 Employee Benefits ----- 348-7205
 Financial Planning Gain ----- 348-7081
 Investment Management ----- 348-7094
 Real Property Management ----- 348-7095
 Real Estate ----- 348-7085
 Trusts & Estates ----- 348-7081
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 Commercial Banking-
 Business Loan Note Teller ----- 348-7285
 Corporate Cash Management ----- 348-7021
 Equipment Leasing ----- 348-7353
 Employment Services ----- 348-7028
 Investment Division ----- 348-7256
 Discount Brokerage ----- 348-7256
 Municipal Bonds ----- 348-7256
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 Real Estate Loans
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 Balance Information ----- 348-7074
 Trust Division
 Corporate Trust ----- 348-7239
 Employee Benefits ----- 348-7205
 Financial Planning GAIN ----- 348-7081
 Investment Management ----- 348-7094
 Real Estate ----- 348-7085
 Trusts & Estates ----- 348-7081
 For Offices & Departments Not
 Listed Call ----- 348-7000

Kanawha Valley Bk Of Kanawha
 City 5701 MacCorkle Av SE ----- 348-1177
KANAWHA VALLEY BOARD OF REALTORS INC
 109 Pennsylvania Av ----- 344-9851
KANAWHA VALLEY BUILDERS ASSOCIATION
 405 Pennsylvania Av ----- 342-7141
KANAWHA VALLEY BUILDING Capitol & Lee Sts 348-7262
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 Kanawha Valley Cab & Limo Service 744-9444
 Kanawha Valley Cab-Para Transit
 Inc ----- 343-7522
KANAWHA VALLEY DATA CONTROL
 3 Carney Commercial Court ----- 768-8841
 Kanawha Valley Day Center For
 The Elderly ----- 348-0726
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 Kanawha Valley Distribution
 Center 4200 1st Av ----- 755-0174
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 183 Summers ----- 343-2651

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 Inc 1107 Virginia E ----- 342-8051
 Kanawha Valley Floor Care Service
 1140 Main St ----- 722-2166
 Kanawha Valley Food Co-Op Inc
 813 Grant St ----- 342-9362
 Kanawha Valley Foundation
 1210 Commerce Square ----- 346-3620
 Kanawha Valley Fox Hunters
 Association Dupont Club Rd ----- 776-9826
 Kanawha Valley Gastroenterology
 Associates 416 Division St ----- 766-6295
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 See W Va College Of Graduate
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 Kanawha Valley Heart Association
 Division Town Center ----- 344-1123
 Kanawha Valley Lupus Chapter
 702 1/2 Lee St E ----- 342-5109
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 Kanawha Valley Memorial Gardens
 Inc
 Glasgow ----- Belle Tel No-949-6753
KANAWHA VALLEY MEMORIAL HOSPITAL-
 800 Pennsylvania Av
 Dial The Following Departments
 Direct
 Patient Information ----- 347-9200
 Admitting Office ----- 347-9353
 Chemical Dependency Program The ----- 347-9299
 Chemical Dependency Program ----- 347-9299
 C T Scan ----- 347-9270
 Education Department ----- 347-9301
 Education Department ----- 347-9301
 Gift Shop ----- 347-9243
 Laboratory Office ----- 347-9247
 Medical Records ----- 347-9330
 Nuclear Medicine ----- 347-9268
 Nursing Office ----- 347-9308
 Outpatient Service ----- 347-9257
 Personnel ----- 347-9356
 Pharmacy ----- 347-9327
 Physical Therapy ----- 347-9320
 Purchasing ----- 347-9325
 Respiratory Care ----- 347-9318
 Short Stay Surgery ----- 347-9361
 Social Service ----- 347-9338
 Ultra Sound ----- 347-9269
 X-Ray ----- 347-9270
 Patient Accounts And Credit
 Information-
 Blue Cross-Commercial Ins ----- 347-9217
 Compensation-UMWA ----- 347-9216
 Department Of Welfare ----- 347-9216
 Medicare ----- 347-9215
 Credit Department ----- 347-9223
 For Department-Not Listed Above Call 347-9200
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 109 Pennsylvania Av ----- 344-9851
 Kanawha Valley Oil Co 505 D St ----- 744-3854
 Kanawha Valley Power Company ----- 348-5745
 Kanawha Valley Power Co
 Winfld ----- Nitro Tel No-755-5588
 Kanawha Valley Power Co plant
 Marmet ----- 949-5271
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 156 Main Av Nitro ----- 755-8977
 Kanawha Valley Radiologists Inc
 301 Medical Arts Bldg ----- 343-4625
 416 Division St ----- 766-7141
 Kanawha Valley Regional
 Transportation Authority
 Laidley St ----- 345-0067
KANAWHA VALLEY RESTAURANT SERVICE INC
 food prods 2909 4th Av ----- 744-2621
 2909 4th Av ----- 744-1191
KANAWHA VALLEY SCALE SERVICE INC
 Rock Branch Industrial Pk ----- 755-8321
 Kanawha Valley Senior Services ----- 348-8000
 Kanawha Valley Senior Services
 1546 Kanawha Blvd E ----- 343-6565
 Kanawha Valley Tennis Club
 5515 Kentucky St ----- 768-3180
KANAWHA VALLEY TILE CO
 3626 7th Av ----- 744-9879
 Kanawha Valley Tours Inc
 Morrison Bldg ----- 344-4353
KANAWHA VILLAGE APARTMENTS INC
 400 39th St SE ----- 925-2733

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 Kanner Ted M atty
 Charleston National Plaza ----- 346-6300
KANSAS CITY LIFE INSURANCE CO
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 Karnes John R 208 1st Av S ----- 722-2464
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KARR
 See Also Carr
 Katona Scott A Iwyr
 Commerce Square ----- 347-1100
 Katrib A Karim MD
 11950 MacCorkle Av Chesapeake ----- 949-1010
 Katrib A Karim MD 415 Morris St ----- 346-2222
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 1538 Bridge Rd Chas ----- 345-7027
 Kauffelt James D Iwyr
 Kanawha Valley Bldg ----- 345-1272
 Res Charleston ----- 343-2625
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 Kanawha Valley Bldg ----- 345-1272
 Kauffelt Mark E Iwyr
 Kanawha Valley Bldg ----- 345-1272
 Kauffelt T D Iwyr Kanawha Valley Bldg 345-1272
 Res 1407 Connell Rd ----- 343-8147
KAUFFMAN
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 Kaufman Lawrence C Jr-
 Ofc 114 Hale St ----- 344-1841
 Ofc 114 Hale St ----- 344-1941
 Res 2026 Kanawha Blvd E ----- 342-7555
 Kaufman & Ratliff 1206 Virginia St E 344-2437
 Kaufman Tod J Iwyr
 1206 Virginia St E ----- 344-2437
KAUFMANN'S DEPARTMENT STORE
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 500 Virginia St ----- 343-8971
 Kay-Bee Toy & Hobby Shop
 1035 Charleston Town Center ----- 345-6844
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 Charleston National Plaza ----- 345-8900
 Kay Company The ofc 820 Virginia E 343-0173
 Kay Jewelers
 Charleston Town Center ----- 342-8101
 Mall Charleston ----- 342-8101
 Kay John T Jr Iwyr
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 Res 1200 Mount Vernon Rd ----- 344-9253
 Kay Robert H C lawyer
 Charleston National Plaza ----- 345-8900
 Res 1021 Circle Rd ----- 343-2066
 Kayi Mallinath MD
 4701 MacCorkle Av Kanawha City ----- 925-2990
 Kayi Mallinath MD
 370 Roxalana Hills Dr Dunbar ----- 766-8291
 Kayo Gasoline Station
 70th & MacCorkle Av SE ----- 925-7212
 Kayo Store Spruce & US 60 ----- 727-1761
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 Keadle D L Painting Contractor
 1514 Coonskin Dr ----- 346-1996
 Keanton R E Ref study
 11815 MacCorkle Av ----- 949-3661
KEARNS
 See Also Carnes Carns Curnes
 Karnes Karnes Karnes
 Keaton R E Jr Rev
 11502 MacCorkle Av Chesapeake ----- 949-6385
KEE
 See Also Key
 Kee John W CPA Laidley Tower ----- 346-0441
KEEFER
 See Also Keifer Kiefer
 Keifer Barbara J Iwyr
 416 Peoples Bldg ----- 342-3106
 Keeling Arch 309 Washington St W ----- 345-0448
 Keeling's Auto & Truck Service
 Center Inc 1502 Rutledge Rd ----- 345-0608
KEELING'S FLOOR COVERING INC
 309 Washington St W ----- 345-0448
KEEN
 See Also Keane Keena
 Keenan John T Iwyr Embleton Bg ----- 343-1445
 Res 740 Holley ----- 727-8402
KEENAN TRAVEL SERVICE INC
 409 Atlas Bldg ----- 345-3700
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 16 Broad St ----- 346-9689
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CENTURY 21 SHAMROCK REALTY INC Charleston 344-33

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 Charleston Realty Co 2 Warwick Pl 342-3

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Malden Electric & Plumbing Malden 925-4822

MARINO SAM
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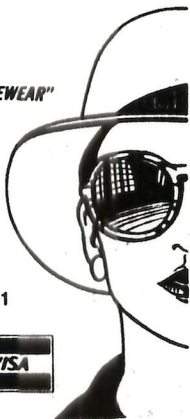
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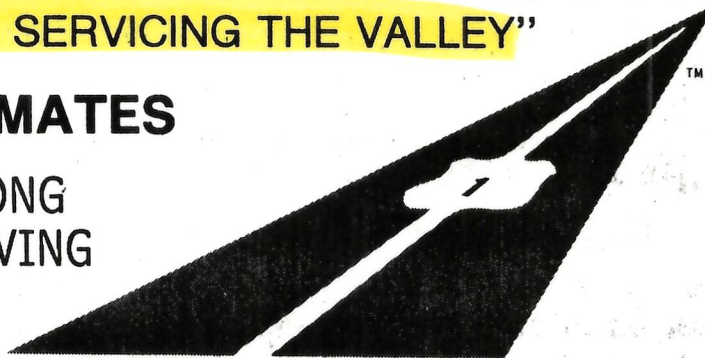
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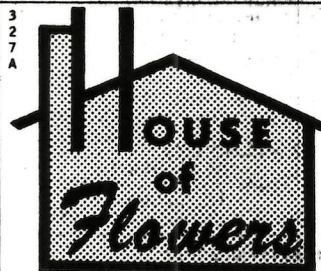
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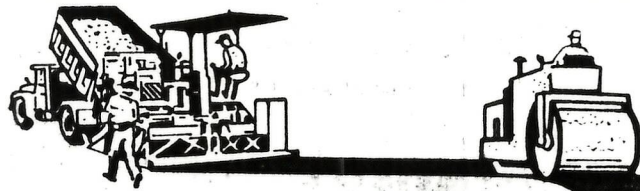
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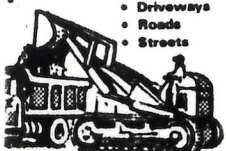
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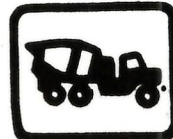
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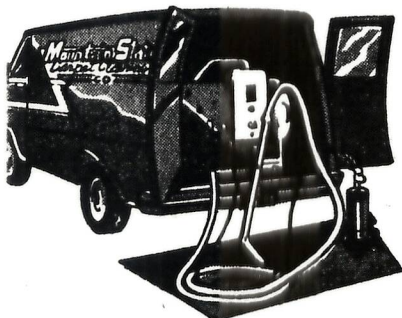


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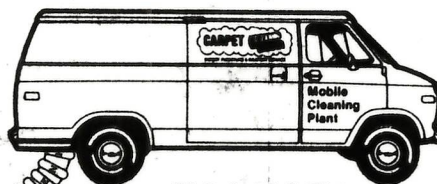
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