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ECONOMIC RESEARCH INTERN
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FINAL REPORT
NOTES & COMMENTARY

A COLLECTION OF ECONOMIC AND TRANSPORTATION STATISTICS USED TO
PREPARE ECONOMIC IMPACT ANALYSES OF VARIOUS ADVANCEMENTS IN
TRANSPORTATION

for the

VIRGINIA DEPARTMENT OF TRANSPORTATION

RESEARCH CONDUCTED WITH THE RESOURCES PROVIDED BY:

VIRGINIA TRANSPORTATION RESEARCH COUNCIL

1. Adjusted Gross Income

Source: Virginia Dept. of Taxation <http://www.tax.virginia.gov/content/annual-reports>
County / Annual / 1997-2013

How to get to the Data:

Homepage > Facts & Figures > Annual Studies > Annual Reports (including income tax data) Table 1.5

Notes:

- Fiscal Year 1999-2005 have only PDF files. Excel spreadsheets are unavailable.
- Fiscal Year 2006-2015 have both PDF files and Excel spreadsheets.
- Each year Fiscal Year Report provides AGI data for 2 years prior
ex) The VA Dept. of Taxation Annual Report **2002** provides AGI information for the Fiscal Year **2000**

2. Taxable Income

Source: Virginia Dept. of Taxation <http://www.tax.virginia.gov/content/annual-reports>
County / Annual / 1997-2013

How to get to the Data:

Homepage > Facts & Figures > Annual Studies > Annual Reports (including income tax data) Table 1.7

Notes:

- Fiscal Year 1999-2005 have only PDF files. Excel spreadsheets are unavailable.
- Fiscal Year 2006-2015 have both PDF files and Excel spreadsheets.
- Each year Fiscal Year Report provides AGI data for 2 years prior
ex) The VA Dept. of Taxation Annual Report **2002** provides AGI information for the Fiscal Year **2000**

3. Taxable Sales

Source: Virginia Dept. of Taxation <http://www.tax.virginia.gov/content/annual-reports>
County / Annual / 1999-2015

How to get to the Data:

Homepage > Facts & Figures > Annual Studies > Annual Reports (including income tax data) Table 3.3

Notes:

- Fiscal Year 1999-2005 have only PDF files. Excel spreadsheets are unavailable.

- Fiscal Year 2006-2015 have both PDF files and Excel spreadsheets.

4. Assessed Value of Real Estate

Source: Virginia Dept. of Taxation <http://www.tax.virginia.gov/content/annual-reports>
County / Annual / 1998-2014

How to get to the Data:

Homepage > Facts & Figures > Annual Studies > Annual Reports (including income tax data) Table 5.2 or 6.2

Notes:

- Fiscal Year 1999-2005 have only PDF files. Excel spreadsheets are unavailable.
- Fiscal Year 2006-2015 have both PDF files and Excel spreadsheets.
- Each year Fiscal Year Report provides AGI data for 1 year prior
ex) The VA Dept. of Taxation Annual Report **2002** provides AGI information for the Fiscal Year **2001**

5. Gross Domestic Product

Source: Bureau of Economic Analysis <http://www.bea.gov/index.htm>
State /
Quarterly / 2005-2015
Annual 1963-1997 (SIC)
Annual 1997-2015 (NAICS)

How to get the Data:

a. Quarterly 2005-2015:

bea.gov > Regional > Under Data: Quarterly GDP by State > Table – Quarterly GDP by State – GDP in current dollars > All Industries > Virginia > Select: Levels > Time Period: All Years

b. Annual Data 1963-2015 SIC/NAICS

bea.gov > Regional > Under Data: GDP by State > Table – Annual GDP by State – GDP in current dollars > Choose: SIC 1963-1997 **OR** 1997-forward > All Industries > Select: Levels

Notes:

- **Additional Information in this folder is
 - o VA Personal Income (scroll down to specific state / organized by **county**)
 - o VA GDP for just Transportation related industries
- Bureau of Economic Analysis contact (301)-278-9309

6. Population

Source: U.S. Census Bureau <http://www.census.gov>
County / Decennial & Annual / 1900-2015

How to get the Data:

- a. **1900-1990** Go to: <https://www.census.gov/population/www/censusdata/cencounts/>
> Virginia > .txt file
- b. **1970-1979** Go to: <https://www.census.gov/popest/data/historical/pre-1980/county.html> > Documentation and Dataset [TXT – 473k]
- c. **1980-1989** Go to: <https://www.census.gov/popest/data/historical/1980s/county.html> > Plain text [TXT – 478k]
- d. **1990-1999** Go to <http://census.gov> > Topics > Population > Population Estimates > Historical Data > 1990s > In this Section: County Tables > Under Postcensal Estimates – County Totals: Annual Time Series of Population Estimates and Demographic....April 1, 1990 to July 1, 1999 > Virginia
- e. **2000-2010** Go to <http://census.gov> > Topics > Population > Population Estimates > Historical Data > 2000s > 2000-2010 Intercensal Estimates – April 1, 2000 to July 1, 2010 > County > Intercensal Estimates of the Resident Population for Counties: April 1, 2000 to July 1, 2010 > Virginia
- f. **2010-2015** Go to <http://census.gov> > Topics > Population > Population Estimates > Historical Data > 2010s > Vintage 2014 > County Tables > Under County Tables: Annual Population Estimates > Virginia > Left Hand Grey Box: Click 2015 to get all years > Download

Notes:

- U.S. Census Bureau contact (301)-763-4636

7. Employment (Not Seasonally Adjusted)

Source: Bureau of Labor Statistics <http://www.bls.gov/>
County + Statewide + Metro / Annual + Monthly / 1939-2016, 1990-2016, 2001-2015

How to get the Data:

- a. **1939-2016** Go to <http://www.bls.gov/sae/data.htm> > Multi-Screen (yellow icon) > Check: Not Seasonally Adjusted > All Employees, In Thousands** > State: Virginia

> Area: Statewide > Total Nonfarm > Select: Total Nonfarm > Retrieve Data > Upper Middle of the Page Click - From: 1939 To: 2016 > Go

- b. **1990-2016** Go to <http://www.bls.gov/sae/data.htm> > Multi-Screen (yellow icon) > Check: Not Seasonally Adjusted > All Employees, In Thousands > State: Virginia > Area: Select All Regions > Total Nonfarm > Select: Total Nonfarm > Retrieve Data > Upper Middle of the Page Click - From: 1990 To: 2016 > Go
- c. **2001-2015** Go to <http://www.bls.gov/cew/data.htm> > Multi-Screen (yellow icon) > Total, all industries > Select Counties > 0 Total Covered > 1 All Employees** > All Establishment Sizes > Retrieve Data > Upper Middle of the Page Click - From: 2001 To: 2015 > Go

Notes:

- BLS State & Metro Area Employment (SAE) Office contact (202)-691-6559
- **For other options, click:
02 Average Weekly Hours of All Employees or
03 Average Hourly Earnings of All Employees, In Dollars
→ for 2007-2016, Monthly, and by Metropolitan Regions
- **For other options, click:
4 Average Weekly Wage
→ for 2001-2015, Quarterly and by County

8. **Average Weekly Wage** (directions above)

9. **Average Weekly Hours** (directions above)

10. **Consumer Price Index**

Source: Bureau of Labor Statistics <http://www.bls.gov/>
Metro / Monthly / 1966-2016

How to get the Data:

- a. **South Urban 1966-2016** Go to <http://www.bls.gov/cpi/data.htm> > All Urban Consumers (Current Series) – Multi-Screen (yellow icon) > Not Seasonally Adjusted > Choose: **0300 South Urban** > Current Base Year > Choose: **SA0 All Items** > Monthly > Retrieve Data > Upper Middle of the Page Click - From: 1966 To: 2016 > Go

Washington DC-Baltimore-DMV 1966-2016* Go to <http://www.bls.gov/cpi/data.htm> > All Urban Consumers (Current Series) – Multi-Screen (yellow icon) > Not Seasonally Adjusted > Choose: **A311 Washington-Baltimore, DC-MD-VA-WV** > Current Base

Year > Choose: **SA0 All Items** > Monthly > Retrieve Data > Upper Middle of the Page
Click - From: 1966 To: 2016 > Go

Notes:

- Bureau of Labor Statistics – CPI Office (202)-691-7000
- BLS Washington D.C. Region Office (410)-962-4898
- CPI-U vs. CPI-W
 - o CPI Urban = urban consumers (89% of U.S. Population)
 - o CPI – **W** = urban wage earners & clerical workers (28% of U.S. Population)
→ because their incomes are quite differential, their spending habits are different; therefore they are accounted for separately from CPI-U
- Seasonally Adjusted = removing a seasonal component of a time series that exhibits a seasonal pattern
 - o Ex) seasonal component = school graduations, summer school closings, winter/fall breaks
- Current base year = 1982-1984 → in 1998, BLS decided not to change the base year every time they did new research
- CPI is based on certain regions (87 metropolitan areas) due to price extensive costs that come along with doing this type of research
- *In 1996, Baltimore, DC, DMV were merged into one category/region. These were all previously separate values.

11. Total Exemptions (# of returns)

Source: Virginia Dept. of Taxation <http://www.tax.virginia.gov/content/annual-reports>
County / Annual / 1997-2013

How to get to the Data:

Homepage > Facts & Figures > Annual Studies > Annual Reports (including income tax data) Table 1.6

Notes:

- Fiscal Year 1999-2005 have only PDF files. Excel spreadsheets are unavailable.
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ex) The VA Dept. of Taxation Annual Report **2002** provides AGI information for the Fiscal Year **2000**

12. Land Area

Sources:

- i. Hathi Trust Digital Library <https://www.hathitrust.org/> via the Libraries of Virginia (contact information is below in Notes)
- ii. U.S. Census Bureau <https://www.census.gov/>
County / Decennial / 1940-2010

How to get the Data:

a. 1940 Go to:

<https://babel.hathitrust.org/cgi/pt?id=umn.31951d006242958;view=1up;seq=3>

Out of Order: Counties are on pg. 380, 388, and 394

b. 1950 Go to:

<https://babel.hathitrust.org/cgi/pt?id=mdp.39015023663803;view=1up;seq=1>

pgs. 458 and 466

c. 1960 Go to:

<https://babel.hathitrust.org/cgi/pt?id=mdp.39015023663787;view=1up;seq=1;size=150>

pgs. 362, 372, 392

d. 1970 Go to:

<https://babel.hathitrust.org/cgi/pt?id=umn.31951d00710577h;view=1up;seq=1>

pgs. 486 and 498

e. 1980 Go to:

<https://babel.hathitrust.org/cgi/pt?id=umn.319510003406957;view=1up;seq=674>

pgs. 578, 592, 606

f. 1990 Go to:

<https://babel.hathitrust.org/cgi/pt?id=umn.31951d010928540;view=1up;seq=1>

pgs. 578, 592, 606

g. 2000 and 2010 Go to: <http://census.gov> > Data > Data Tools & Apps > American Fact Finder > Advanced Search > Show Me All >

In the Orange Box: type

i. **Topic or Table Name:** "Land Area"

ii. **Click GO**

In the Left-hand Sidebar: click **Geographies**

Select **Geography Type:** "County 050"

Select **State:** "Virginia"

Select "All Counties in Virginia"

Click "Add to Your Selections"

Close the pop-up box

On the generated table:

Scroll down until you find Document title **GEOGRAPHIC IDENTIFIERS** with the Dataset title **2010 SF1 100% DATA***

*near the bottom of the page

**2011 SF1 100% will be no page 2

Click the Document Title to view the table

Under Area Characteristics, you will find Land Area in square meters

Notes:

- Other Helpful Resources
 - o State Data Center: <http://www.census.gov/sdc> > Member Network > VA
 - o VA Employment Commission (<http://www.vec.virginia.gov>)
 - o Cooper Center <http://www.coopercenter.org> (434)-982-5581
 - o Libraries of Virginia (804)-692-3500
Archives Dept. (804)-692-3777 (spoke to someone named Lisa)
 - o U.S. Census Bureau Geography Dept. (301)-763-1128

13. Highway Lane Miles

14. Registered Vehicles

15. Vehicle Miles Traveled

Source: Federal Highway Administration <http://fhwa.dot.gov>

Highway Lane Miles State / Annual / 1984-2014

Registered Vehicles State / Annual / 1946-2014

Vehicle Miles Traveled State / Annual / 1967-2014

How to get to the Data:

Go to: <https://www.fhwa.dot.gov/> > Resources > Publications & Statistics > Under Policy Publications: click **Highway Statistics** > Under Highway Statistics Series Publications: dropdown to **Highway Statistics Archive (Historical)** > Go for Highway Stats from 1946-1995; all others, **select from the dropdown menu**

Highway Lane Miles = HM-60 starts 1984

Registered Vehicles = MV-1 starts 1946

Vehicle Miles Traveled = VM-1 starts 1967

Notes:

- Other Helpful Resources
 - o Federal Highway Administration Public Affairs Office <http://fhwa.dot.gov> (202)-366-0660
 - o National Transportation Library <http://www.ntl.bts.gov> (202)-366-3282
<http://www.specialcollection.dotlibrary.dot.gov> (800)-853-1351

- Bureau of Transportation Statistics <http://www.rita.dot.gov/bts/home>

16. Congestion Index

Source: Texas Transportation Institute (TTI) <http://tti.tamu.edu/>
Metro / Annual / 1984-2014

How to get the Data:

Go to: <http://mobility.tamu.edu/ums/> > Scroll down the page until you see “Congestion Data for Your City” > Underneath you will see the link for the Excel spreadsheet

OR

Click the [Congestion Data](#) link > In the first paragraph, click the link to **Excel spreadsheet (727 KB) > This will download the Excel spreadsheet for you!**

Download the Excel spreadsheet [now](#).

Notes:

- TTI contacts:
 - Tim Lomax (979)-845-9960
 - David Schrank (979)-845-7323
 - Bill Eisele (979)—845-8550
- The data provides statistics for 101 urban areas from 1984-2014.
- It also provides statistics for another 370 urban areas that were recently added in 2014, for a total of 471 urban areas nationwide.

17. Railway Miles

18. Assessed Value of Railway Assets

19. Freight Ton Miles by Rails

Source: American Railroad Association <https://www.aar.org/>

Notes:

- *****Data for the following topics must be requested through the AAR.**
- Contact Information: **Dan Keen:** dkeen@aar.org / (202)-639-2100
- Other Relevant / Possibly Useful Resources
 - U.S. Department of Transportation Federal Railroad Administration (FRA)
 - email frapa@dot.gov for requests
 - Freedom of Information Act (FOIA) – gives public’s rights to obtain access to Federal Agency Records
 - FOIA Public Liaison - **Timothy Barkley:** frafoia@dot.gov / (202)-493-1305
 - State Transportation Statistics by the **Bureau of Transportation Statistics**

- Homepage: <http://www.rita.dot.gov/bts/home>
- [State Transportation Statistics for VA 2002](#) includes:
 - Table 1-9: Characteristics of Rail Transit 2000 (gives Miles of Track by Heavy Commuter Rail)
 - Miles operation in VA
- Any of the [State Transportation Statistics from 2004-2015](#) datasets include:
 - Table 1-14: Miles of Freight Railroad Operated by Class

20. Freight Ton Miles Highway (Truck)

Source: FHWA – Freight Management & Operations

<http://www.ops.fhwa.dot.gov/freight/index.cfm>

Notes:

- Any questions with research on this topic can be directed to **Birat Pandey**: birat.pandey@dot.gov / (202)-366-2842 – Freight Data & Analysis Tools
- Other names and researchers in the Freight Analysis & Research Team that can be contacted:
 - S. Clinger (202)-366-2168
 - C. Bondzie (202)-366-9083
 - Crystal Jones (202)-366-2976
- National Statistics and Maps – [Freight Facts and Figures 2004-2012](#)
- Virginia Transportation Statistics PDF File – can be found [here](#).

21. Assessed Value of Telecommunication Assets

22. Assessed Value of Water Corporations

23. Assessed Value of Gas and Pipeline Distribution Corps.

24. Assessed Value of Electronic Light and Power Corps.

Source: State Corporation Commission of Virginia <https://www.scc.virginia.gov/>

State / Annual / 2004-2015

Notes:

- SCC in Richmond, Virginia / (804)-371-9967
- > SCC Department of Public Service Taxation / (804)-371-9480 for access to records
- Connected with **Dee Deskins**: dee.deskins@scc.virginia.gov / sent all records in PDF files via email

25. Consumer Confidence Index (CCI)

Sources: Conference Board <https://www.conference-board.org/>
Fairfax County, Virginia <http://www.fairfaxcounty.gov/>

National / Monthly / March 2000-2016

Notes:

- The CCI is an index published by the Conference Board Monthly
- Without a subscription to the Conference Board, CCI can be found within the Fairfax County's Economic Indicator's Newsletters [here](#).
- For any questions or more information about the Fairfax County's Economic Indicators, here are some helpful contacts
 - Fairfax County Office of Public Affairs (703)-324-7329
 - Lynn Franco, Director of Economic Indicators
 - Office of County Executive (703)-324-2531
 - Albena Assenova (703)-324-9411, in charge of collecting data for the Econ. Indicator Newsletter