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Shift-Share Analysis: Tennessee, 2005 - 2018

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Supplementary Document 11

Shift-Share Analysis: Tennessee, 2005 - 2018

**Prepared for the Appalachian Regional Commission by the
West Virginia University Regional Research Institute**

Randall Jackson and Peter Jarosi

11-Jun-2020

Table of Contents

| | |
|--|-----|
| Chapter 1. Anderson County, Tennessee | 1 |
| Chapter 2. Bledsoe County, Tennessee | 10 |
| Chapter 3. Blount County, Tennessee | 19 |
| Chapter 4. Bradley County, Tennessee..... | 28 |
| Chapter 5. Campbell County, Tennessee..... | 37 |
| Chapter 6. Cannon County, Tennessee | 46 |
| Chapter 7. Carter County, Tennessee..... | 55 |
| Chapter 8. Claiborne County, Tennessee | 64 |
| Chapter 9. Clay County, Tennessee | 73 |
| Chapter 10. Cocke County, Tennessee | 82 |
| Chapter 11. Coffee County, Tennessee | 91 |
| Chapter 12. Cumberland County, Tennessee | 100 |
| Chapter 13. DeKalb County, Tennessee | 109 |
| Chapter 14. Fentress County, Tennessee | 118 |
| Chapter 15. Franklin County, Tennessee..... | 127 |
| Chapter 16. Grainger County, Tennessee..... | 136 |
| Chapter 17. Greene County, Tennessee | 145 |
| Chapter 18. Grundy County, Tennessee | 154 |
| Chapter 19. Hamblen County, Tennessee | 163 |
| Chapter 20. Hamilton County, Tennessee..... | 172 |
| Chapter 21. Hancock County, Tennessee | 181 |
| Chapter 22. Hawkins County, Tennessee | 190 |
| Chapter 23. Jackson County, Tennessee | 199 |
| Chapter 24. Jefferson County, Tennessee | 208 |
| Chapter 25. Johnson County, Tennessee..... | 217 |
| Chapter 26. Knox County, Tennessee..... | 226 |
| Chapter 27. Lawrence County, Tennessee | 235 |
| Chapter 28. Lewis County, Tennessee | 244 |
| Chapter 29. Loudon County, Tennessee..... | 253 |
| Chapter 30. McMinn County, Tennessee | 263 |
| Chapter 31. Macon County, Tennessee..... | 272 |
| Chapter 32. Marion County, Tennessee | 281 |
| Chapter 33. Meigs County, Tennessee | 290 |
| Chapter 34. Monroe County, Tennessee..... | 299 |
| Chapter 35. Morgan County, Tennessee | 308 |
| Chapter 36. Overton County, Tennessee | 317 |
| Chapter 37. Pickett County, Tennessee..... | 327 |

| | |
|--|-----|
| Chapter 38. Polk County, Tennessee | 336 |
| Chapter 39. Putnam County, Tennessee | 345 |
| Chapter 40. Rhea County, Tennessee..... | 354 |
| Chapter 41. Roane County, Tennessee..... | 363 |
| Chapter 42. Scott County, Tennessee..... | 372 |
| Chapter 43. Sequatchie County, Tennessee | 381 |
| Chapter 44. Sevier County, Tennessee | 390 |
| Chapter 45. Smith County, Tennessee | 399 |
| Chapter 46. Sullivan County, Tennessee | 408 |
| Chapter 47. Unicoi County, Tennessee..... | 417 |
| Chapter 48. Union County, Tennessee | 426 |
| Chapter 49. Van Buren County, Tennessee | 435 |
| Chapter 50. Warren County, Tennessee..... | 444 |
| Chapter 51. Washington County, Tennessee | 453 |
| Chapter 52. White County, Tennessee | 462 |

Chapter 1. Anderson County, Tennessee

Employment in Anderson County, Tennessee, grew from 38,502 in 2005 to 39,294 in 2018, for a change of 792, or 2.06%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Anderson County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|-------|--------|
| vs. U.S. | 4,345 | -3,545 | -297 | -3,248 |
| vs. Appalachia | 125 | 665 | 1,145 | -480 |
| vs. Neighbors | 1,915 | -1,126 | -743 | -383 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Anderson County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 1. Anderson County, Tennessee

Industry Group Membership for Anderson County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|--------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 36 | Truck transportation | F III c i | no | yes | yes | yes |
| 47 | Insurance carriers and ... | F III c i | no | yes | yes | yes |
| 55 | Administrative and ... | A I a ii | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 65 | Food services and drinking ... | B II b i | yes | yes | yes | yes |
| 68 | Government | F III a iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Anderson County, Tennessee vs. the United States

Groups a, b, and c are from Anderson County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Anderson County, Tennessee vs. its neighbors

Chapter 1. Anderson County, Tennessee

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Anderson County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Anderson County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Anderson County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Anderson County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

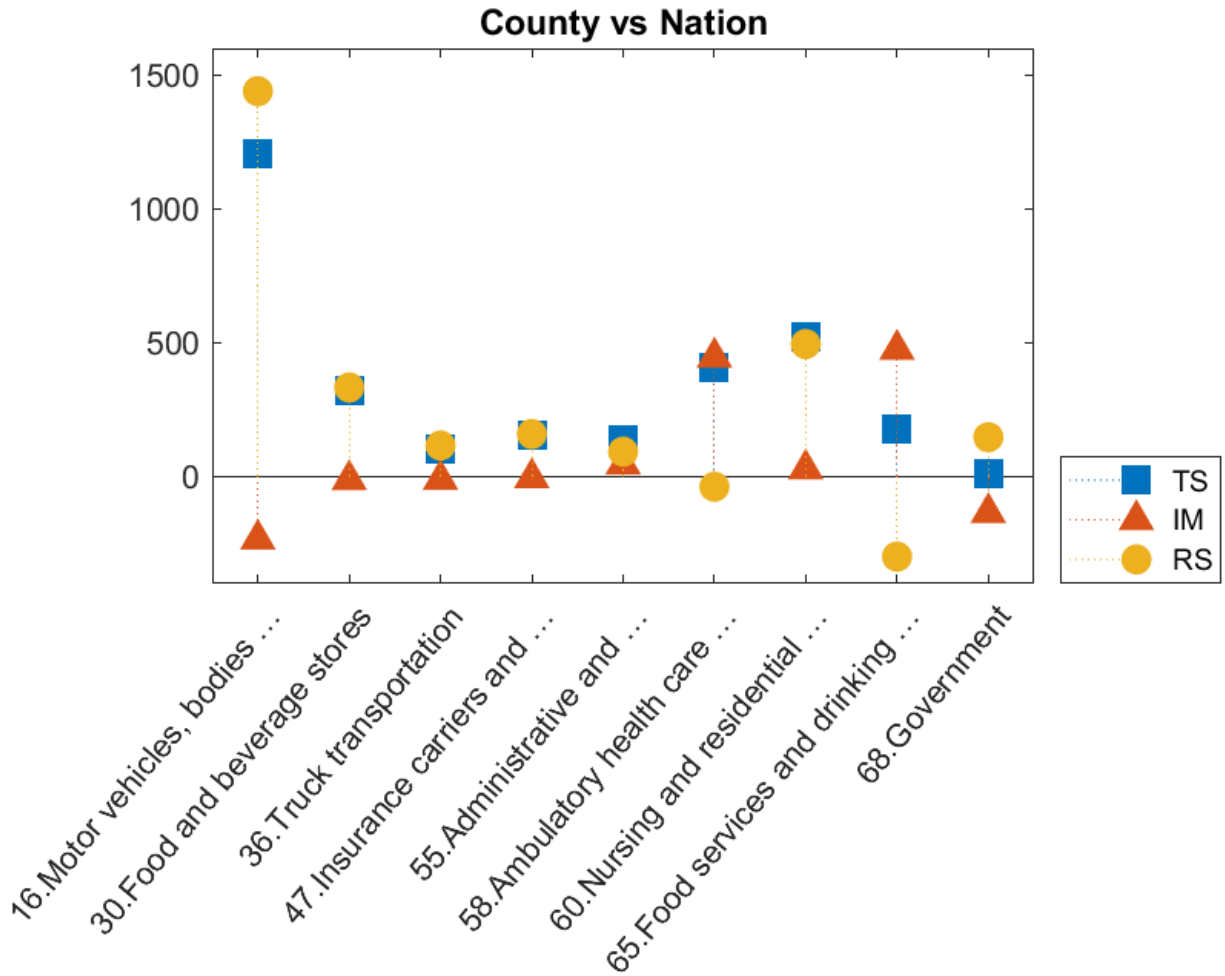
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Anderson County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Anderson County, Tennessee vs the U.S.

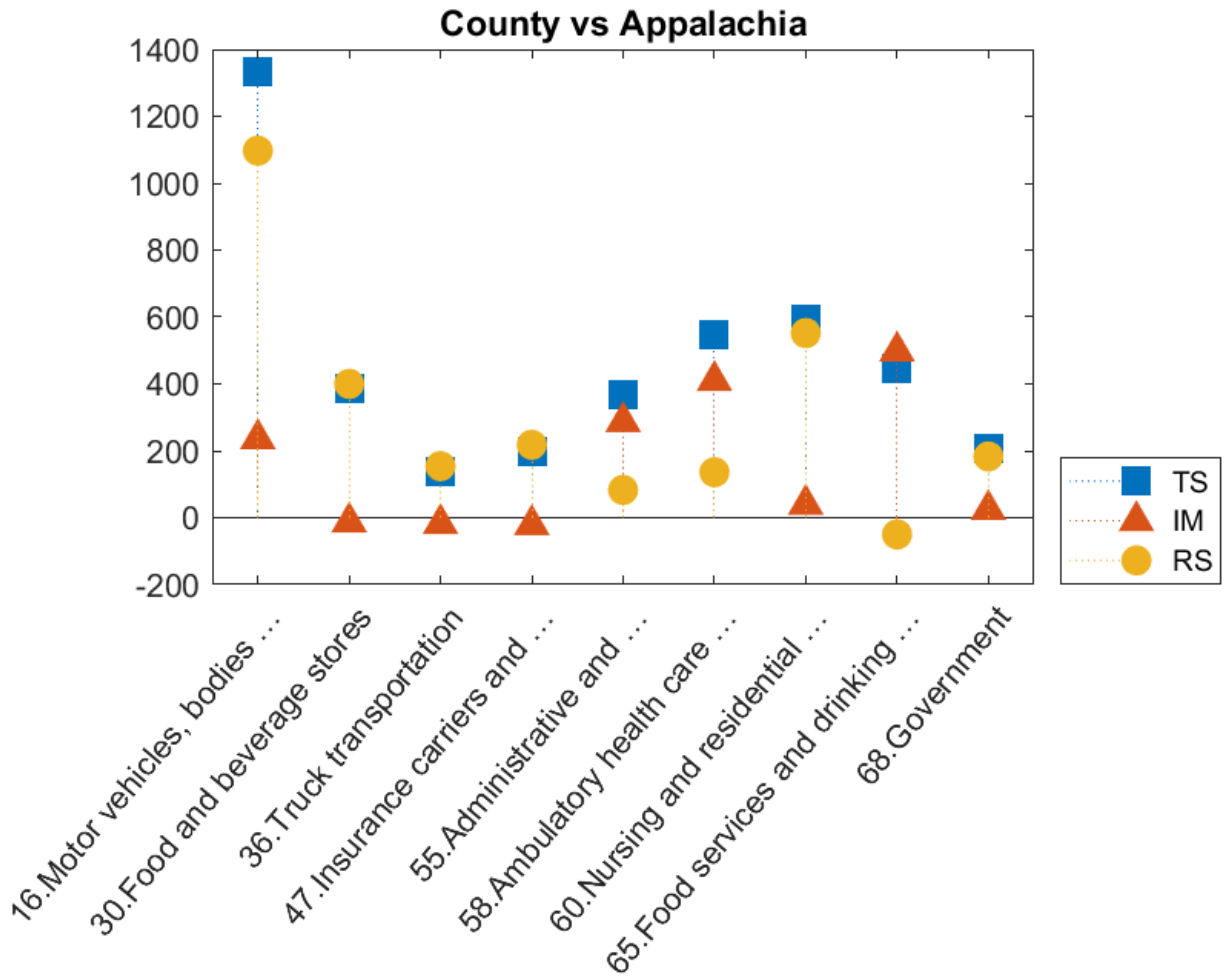


Chapter 1. Anderson County, Tennessee

Anderson County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-------|------|-------|--------------------|
| 16 | Motor vehicles, bodies ... | 131 | 1,206 | -234 | 1,440 | 2,496 |
| 30 | Food and beverage stores | 69 | 321 | -12 | 333 | 997 |
| 36 | Truck transportation | 32 | 105 | -11 | 116 | 419 |
| 47 | Insurance carriers and ... | 44 | 154 | -5 | 159 | 588 |
| 55 | Administrative and ... | 238 | 139 | 46 | 93 | 2,487 |
| 58 | Ambulatory health care ... | 143 | 408 | 446 | -38 | 1,822 |
| 60 | Nursing and residential ... | 71 | 523 | 28 | 495 | 1,223 |
| 65 | Food services and drinking ... | 281 | 176 | 475 | -299 | 2,946 |
| 68 | Government | 201 | 12 | -135 | 147 | 1,994 |

Selected SSA Components for Anderson County, Tennessee vs the Appalachian Region

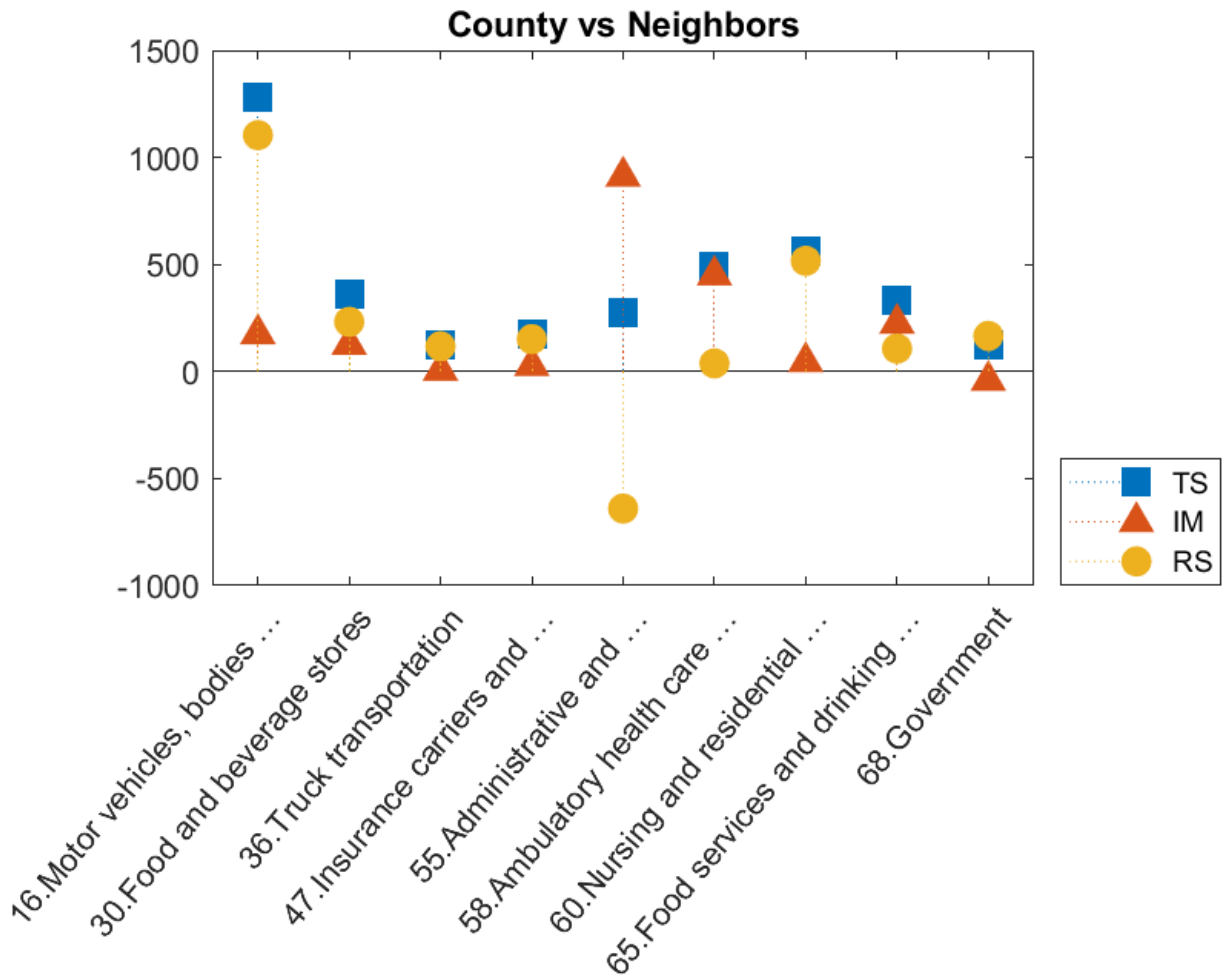


Chapter 1. Anderson County, Tennessee

Selected SSA Components for Anderson County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-----|-------|--------------------|
| 16 | Motor vehicles, bodies ... | 4 | 1,333 | 236 | 1,097 | 2,496 |
| 30 | Food and beverage stores | 2 | 387 | -13 | 400 | 997 |
| 36 | Truck transportation | 1 | 136 | -18 | 154 | 419 |
| 47 | Insurance carriers and ... | 1 | 197 | -21 | 218 | 588 |
| 55 | Administrative and ... | 7 | 370 | 287 | 83 | 2,487 |
| 58 | Ambulatory health care ... | 4 | 546 | 410 | 136 | 1,822 |
| 60 | Nursing and residential ... | 2 | 592 | 40 | 552 | 1,223 |
| 65 | Food services and drinking ... | 8 | 448 | 498 | -50 | 2,946 |
| 68 | Government | 6 | 207 | 24 | 183 | 1,994 |

Selected SSA Components for Anderson County, Tennessee vs Neighbors



Chapter 1. Anderson County, Tennessee

Selected SSA Components for Anderson County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-------|-----|-------|--------------------|
| 16 | Motor vehicles, bodies ... | 58 | 1,280 | 176 | 1,104 | 2,496 |
| 30 | Food and beverage stores | 30 | 358 | 126 | 232 | 997 |
| 36 | Truck transportation | 14 | 123 | 5 | 118 | 419 |
| 47 | Insurance carriers and ... | 19 | 178 | 27 | 151 | 588 |
| 55 | Administrative and ... | 105 | 272 | 912 | -640 | 2,487 |
| 58 | Ambulatory health care ... | 63 | 488 | 450 | 38 | 1,822 |
| 60 | Nursing and residential ... | 31 | 562 | 45 | 517 | 1,223 |
| 65 | Food services and drinking ... | 124 | 332 | 225 | 107 | 2,946 |
| 68 | Government | 89 | 124 | -42 | 166 | 1,994 |

Chapter 2. Bledsoe County, Tennessee

Employment in Bledsoe County, Tennessee, grew from 1,452 in 2005 to 1,819 in 2018, for a change of 367, or 25.28%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Bledsoe County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|-----|-----|-----|
| vs. U.S. | 161 | 198 | 28 | 170 |
| vs. Appalachia | 2 | 360 | -1 | 361 |
| vs. Neighbors | -0 | 370 | 273 | 97 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Bledsoe County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 2. Bledsoe County, Tennessee

Industry Group Membership for Bledsoe County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 01 | Farms | F III a i | no | yes | yes | yes |
| 08 | Construction | F III c i | no | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 63 | Amusements, gambling, ... | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III a i | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Bledsoe County, Tennessee vs. the United States

Groups a, b, and c are from Bledsoe County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Bledsoe County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Bledsoe County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Bledsoe County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Bledsoe County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Bledsoe County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

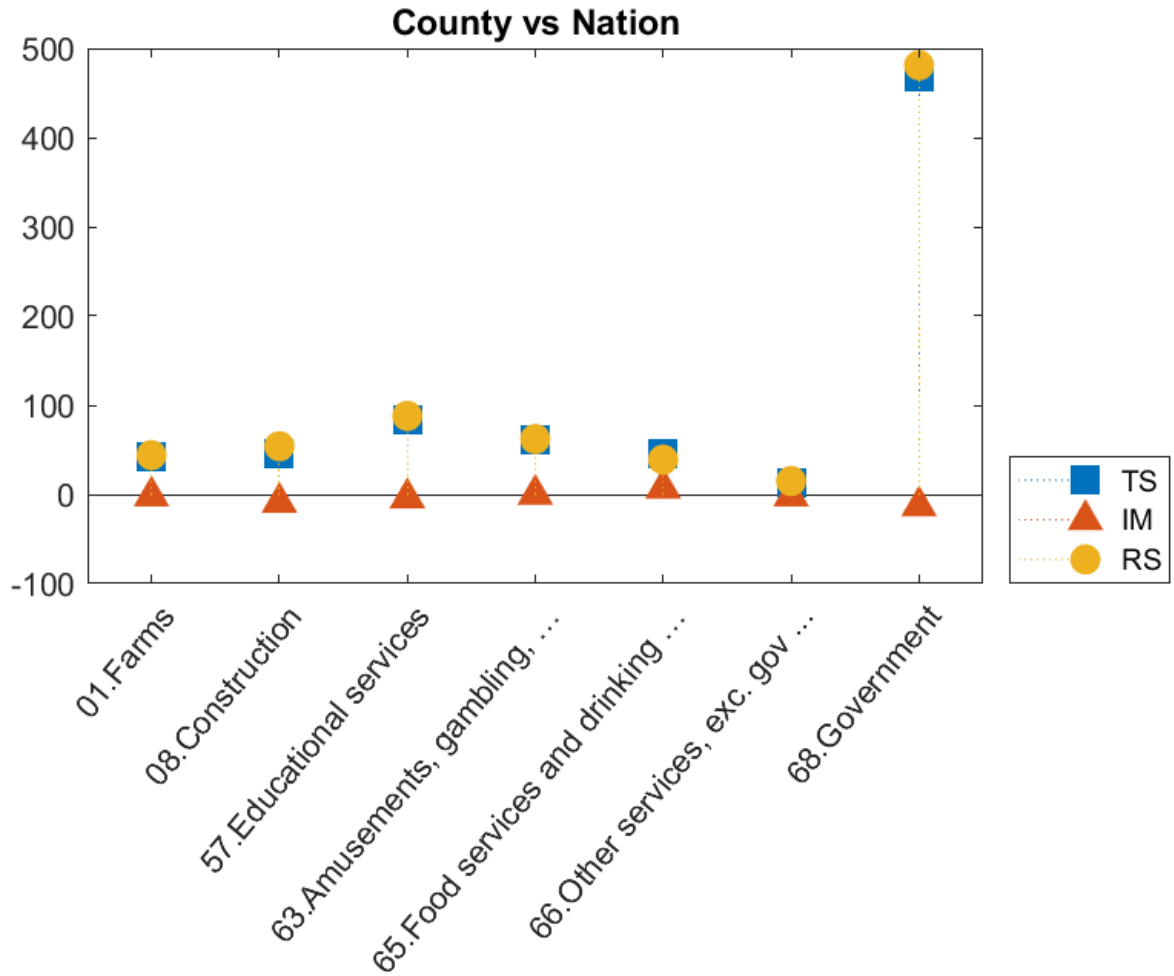
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Bledsoe County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Bledsoe County, Tennessee vs the U.S.

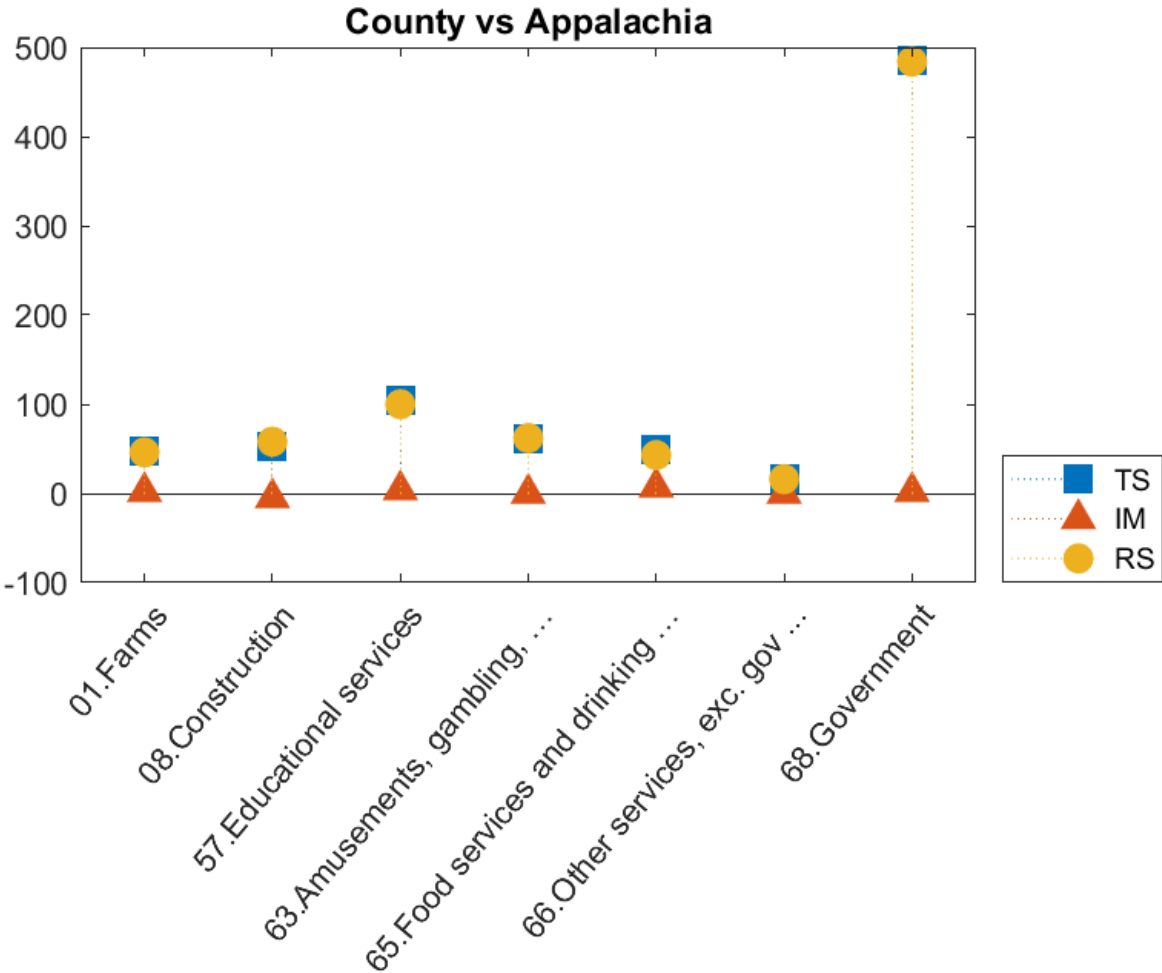


Chapter 2. Bledsoe County, Tennessee

Bledsoe County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 01 | Farms | 6 | 42 | -2 | 44 | 102 |
| 08 | Construction | 8 | 45 | -9 | 54 | 127 |
| 57 | Educational services | 19 | 84 | -4 | 88 | 273 |
| 63 | Amusements, gambling, ... | 0 | 62 | 0 | 62 | 62 |
| 65 | Food services and drinking ... | 4 | 46 | 7 | 39 | 86 |
| 66 | Other services, exc. gov ... | 2 | 13 | -2 | 15 | 36 |
| 68 | Government | 20 | 468 | -13 | 481 | 663 |

Selected SSA Components for Bledsoe County, Tennessee vs the Appalachian Region

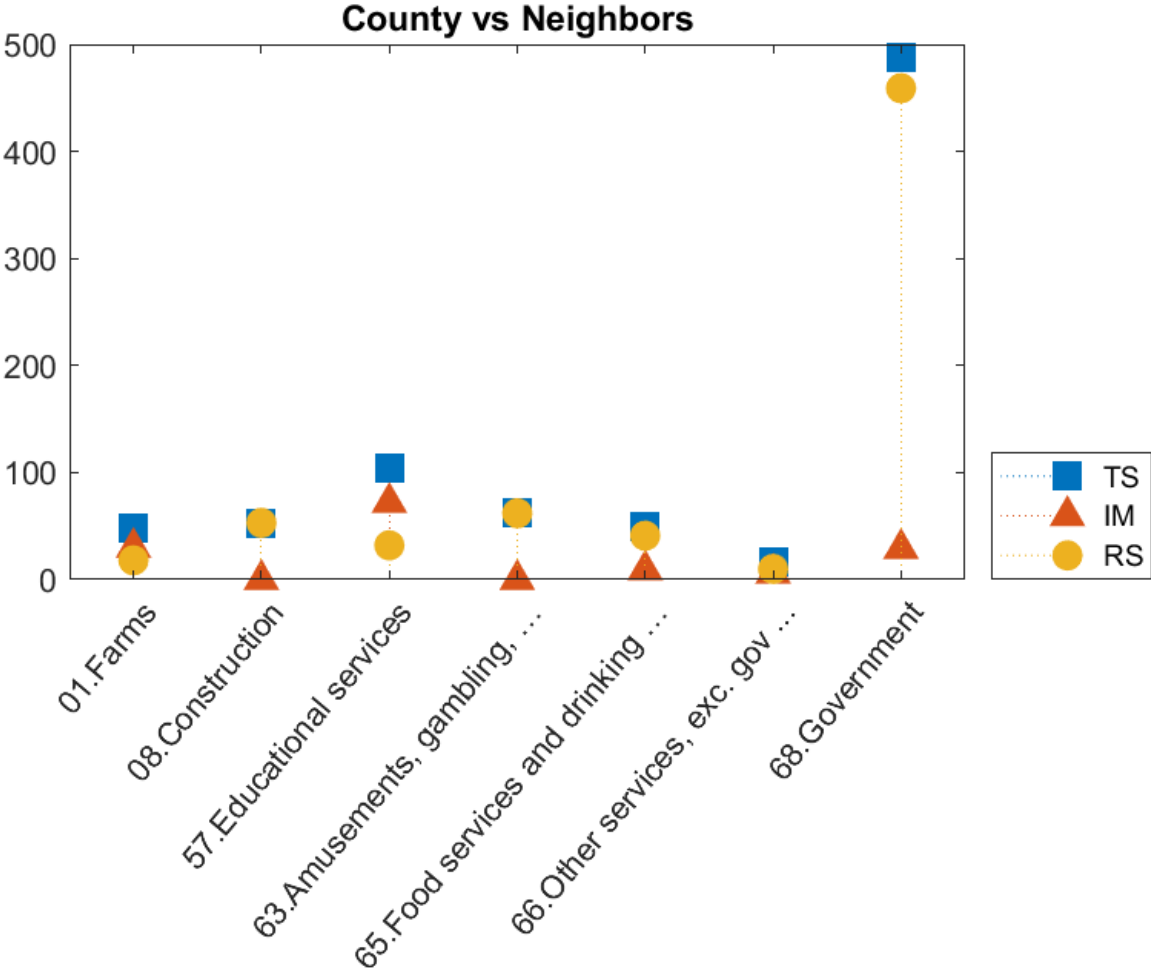


Chapter 2. Bledsoe County, Tennessee

Selected SSA Components for Bledsoe County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|----|-----|--------------------|
| 01 | Farms | 0 | 48 | 2 | 46 | 102 |
| 08 | Construction | 0 | 53 | -5 | 58 | 127 |
| 57 | Educational services | 1 | 104 | 4 | 100 | 273 |
| 63 | Amusements, gambling, ... | 0 | 62 | 0 | 62 | 62 |
| 65 | Food services and drinking ... | 0 | 50 | 7 | 43 | 86 |
| 66 | Other services, exc. gov ... | 0 | 16 | -0 | 16 | 36 |
| 68 | Government | 1 | 486 | 2 | 484 | 663 |

Selected SSA Components for Bledsoe County, Tennessee vs Neighbors



Chapter 2. Bledsoe County, Tennessee

Selected SSA Components for Bledsoe County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|----|-----|--------------------|
| 01 | Farms | -0 | 48 | 30 | 18 | 102 |
| 08 | Construction | -0 | 53 | 0 | 53 | 127 |
| 57 | Educational services | -0 | 104 | 72 | 32 | 273 |
| 63 | Amusements, gambling, ... | -0 | 62 | 0 | 62 | 62 |
| 65 | Food services and drinking ... | -0 | 50 | 9 | 41 | 86 |
| 66 | Other services, exc. gov ... | -0 | 16 | 6 | 10 | 36 |
| 68 | Government | -0 | 488 | 29 | 459 | 663 |

Chapter 3. Blount County, Tennessee

Employment in Blount County, Tennessee, grew from 41,235 in 2005 to 49,672 in 2018, for a change of 8,437, or 20.46%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Blount County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|-------|--------|-------|
| vs. U.S. | 4,650 | 3,791 | -1,786 | 5,577 |
| vs. Appalachia | 134 | 8,295 | 332 | 7,963 |
| vs. Neighbors | 4,440 | 4,002 | -610 | 4,612 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Blount County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 3. Blount County, Tennessee

Industry Group Membership for Blount County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 27 | Plastics and rubber prod... | D III a i | no | yes | yes | yes |
| 28 | Wholesale trade | F III c iii | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c ii | no | yes | yes | yes |
| 31 | General merchandise ... | F III c iii | no | yes | yes | yes |
| 39 | Other transportation ... | E I c iii | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a ii | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a i | yes | yes | yes | yes |
| 59 | Hospitals | E II a iii | no | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 61 | Social assistance | B II a iii | yes | yes | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c iii | no | yes | yes | yes |
| 68 | Government | F III a iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Blount County, Tennessee vs. the United States

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Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Blount County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Blount County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Blount County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Blount County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

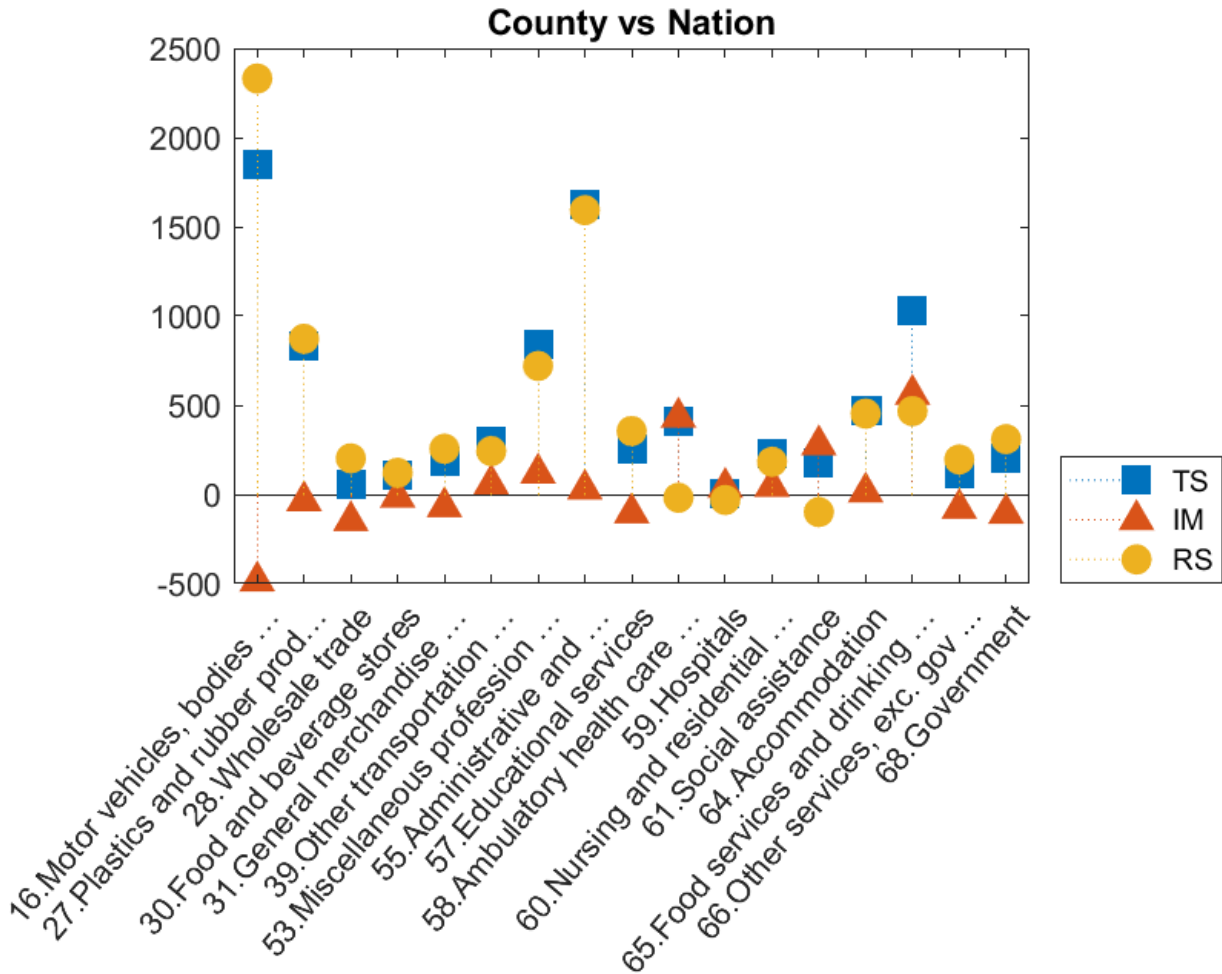
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Blount County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

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Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Blount County, Tennessee vs the U.S.

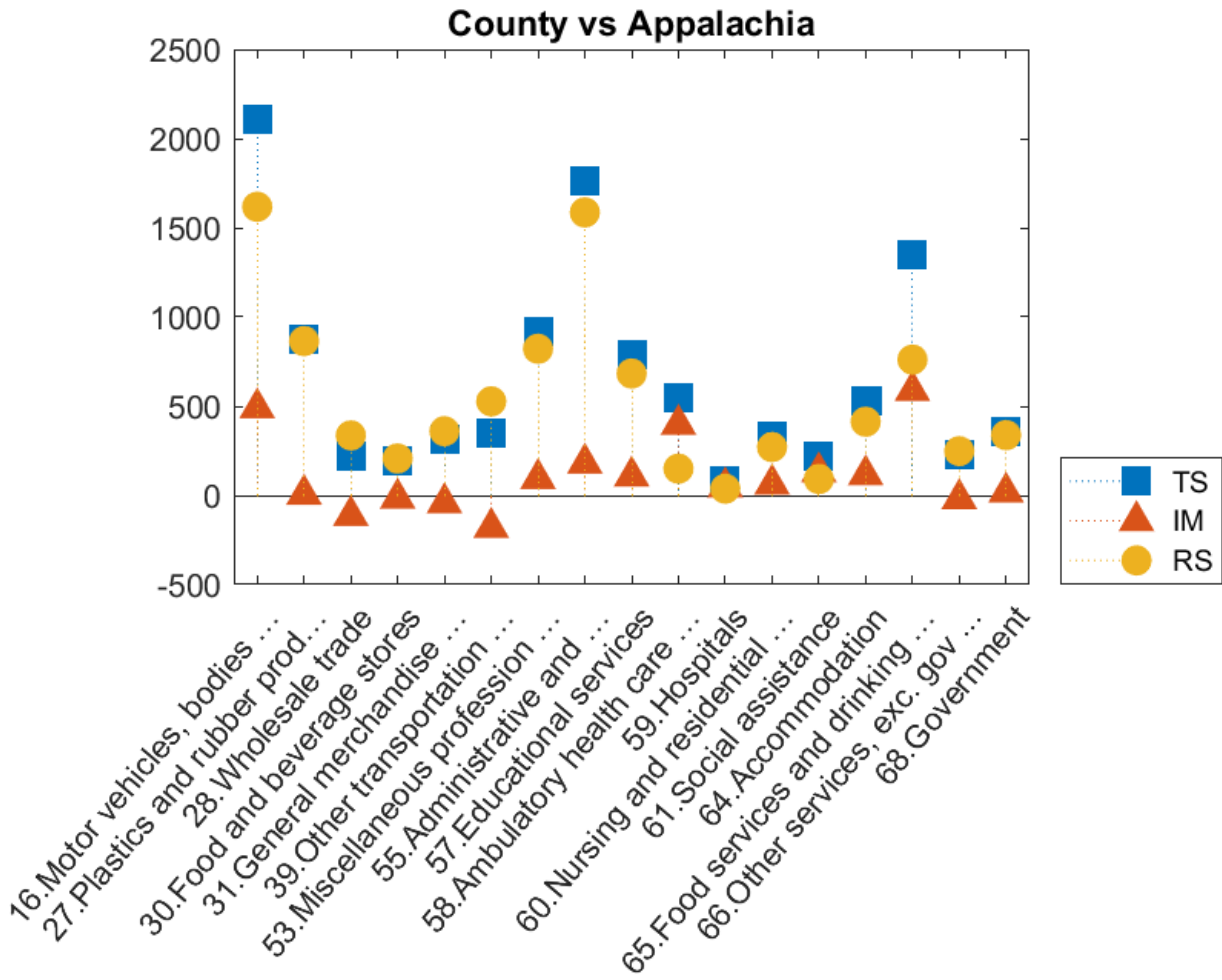


Chapter 3. Blount County, Tennessee

Blount County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|-----|-------|------|-------|--------------------|
| 16 | Motor vehicles, bodies ... | 271 | 1,845 | -486 | 2,331 | 4,524 |
| 27 | Plastics and rubber prod... | 37 | 836 | -36 | 872 | 1,201 |
| 28 | Wholesale trade | 175 | 54 | -148 | 202 | 1,781 |
| 30 | Food and beverage stores | 88 | 105 | -16 | 121 | 973 |
| 31 | General merchandise ... | 136 | 186 | -70 | 256 | 1,530 |
| 39 | Other transportation ... | 47 | 301 | 58 | 243 | 764 |
| 53 | Miscellaneous profession ... | 79 | 839 | 119 | 720 | 1,623 |
| 55 | Administrative and ... | 150 | 1,622 | 29 | 1,593 | 3,097 |
| 57 | Educational services | 556 | 251 | -104 | 355 | 5,742 |
| 58 | Ambulatory health care ... | 139 | 413 | 432 | -19 | 1,784 |
| 59 | Hospitals | 79 | 8 | 39 | -31 | 785 |
| 60 | Nursing and residential ... | 112 | 227 | 44 | 183 | 1,327 |
| 61 | Social assistance | 48 | 178 | 277 | -99 | 649 |
| 64 | Accommodation | 64 | 466 | 13 | 453 | 1,095 |
| 65 | Food services and drinking ... | 331 | 1,027 | 560 | 467 | 4,296 |
| 66 | Other services, exc. gov ... | 115 | 117 | -79 | 196 | 1,252 |
| 68 | Government | 157 | 204 | -106 | 310 | 1,753 |

Selected SSA Components for Blount County, Tennessee vs the Appalachian Region

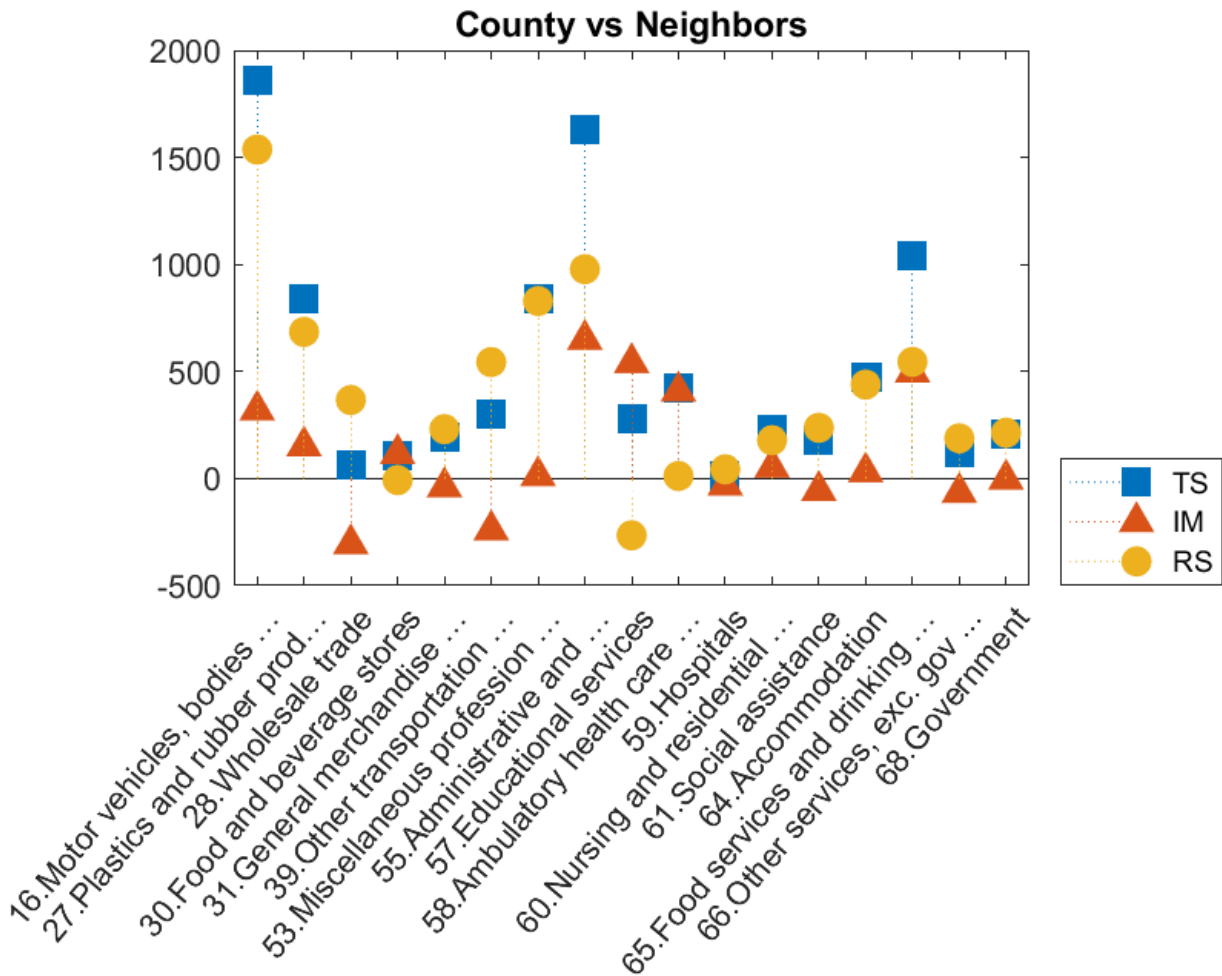


Chapter 3. Blount County, Tennessee

Selected SSA Components for Blount County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|------|-------|--------------------|
| 16 | Motor vehicles, bodies ... | 8 | 2,108 | 490 | 1,618 | 4,524 |
| 27 | Plastics and rubber prod... | 1 | 871 | 6 | 865 | 1,201 |
| 28 | Wholesale trade | 5 | 223 | -113 | 336 | 1,781 |
| 30 | Food and beverage stores | 3 | 191 | -16 | 207 | 973 |
| 31 | General merchandise ... | 4 | 318 | -42 | 360 | 1,530 |
| 39 | Other transportation ... | 1 | 347 | -180 | 527 | 764 |
| 53 | Miscellaneous profession ... | 2 | 916 | 94 | 822 | 1,623 |
| 55 | Administrative and ... | 5 | 1,766 | 180 | 1,586 | 3,097 |
| 57 | Educational services | 17 | 791 | 108 | 683 | 5,742 |
| 58 | Ambulatory health care ... | 4 | 548 | 398 | 150 | 1,784 |
| 59 | Hospitals | 2 | 85 | 47 | 38 | 785 |
| 60 | Nursing and residential ... | 3 | 334 | 63 | 271 | 1,327 |
| 61 | Social assistance | 1 | 224 | 132 | 92 | 649 |
| 64 | Accommodation | 2 | 528 | 115 | 413 | 1,095 |
| 65 | Food services and drinking ... | 10 | 1,348 | 587 | 761 | 4,296 |
| 66 | Other services, exc. gov ... | 3 | 229 | -19 | 248 | 1,252 |
| 68 | Government | 5 | 356 | 18 | 338 | 1,753 |

Selected SSA Components for Blount County, Tennessee vs Neighbors



Chapter 3. Blount County, Tennessee

Selected SSA Components for Blount County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-------|------|-------|--------------------|
| 16 | Motor vehicles, bodies ... | 259 | 1,857 | 320 | 1,537 | 4,524 |
| 27 | Plastics and rubber prod... | 35 | 837 | 152 | 685 | 1,201 |
| 28 | Wholesale trade | 167 | 62 | -305 | 367 | 1,781 |
| 30 | Food and beverage stores | 84 | 109 | 116 | -7 | 973 |
| 31 | General merchandise ... | 130 | 192 | -39 | 231 | 1,530 |
| 39 | Other transportation ... | 45 | 304 | -240 | 544 | 764 |
| 53 | Miscellaneous profession ... | 76 | 842 | 13 | 829 | 1,623 |
| 55 | Administrative and ... | 143 | 1,628 | 650 | 978 | 3,097 |
| 57 | Educational services | 531 | 276 | 541 | -265 | 5,742 |
| 58 | Ambulatory health care ... | 133 | 420 | 408 | 12 | 1,784 |
| 59 | Hospitals | 75 | 12 | -31 | 43 | 785 |
| 60 | Nursing and residential ... | 106 | 231 | 52 | 179 | 1,327 |
| 61 | Social assistance | 46 | 181 | -56 | 237 | 649 |
| 64 | Accommodation | 61 | 470 | 31 | 439 | 1,095 |
| 65 | Food services and drinking ... | 316 | 1,042 | 497 | 545 | 4,296 |
| 66 | Other services, exc. gov ... | 110 | 123 | -65 | 188 | 1,252 |
| 68 | Government | 150 | 211 | -3 | 214 | 1,753 |

Chapter 4. Bradley County, Tennessee

Employment in Bradley County, Tennessee, grew from 37,953 in 2005 to 42,160 in 2018, for a change of 4,207, or 11.08%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Bradley County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|-------|--------|-------|
| vs. U.S. | 4,279 | -72 | -1,582 | 1,510 |
| vs. Appalachia | 128 | 4,082 | -453 | 4,535 |
| vs. Neighbors | -902 | 5,114 | 2,588 | 2,526 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Bradley County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 4. Bradley County, Tennessee

Industry Group Membership for Bradley County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|-----------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 08 | Construction | F III c i | no | yes | yes | yes |
| 10 | Nonmetallic mineral prod | F III c i | no | yes | yes | yes |
| | ... | | | | | |
| 20 | Food and beverage ... | E I c iii | no | yes | yes | yes |
| 26 | Chemical products | F III c iii | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 36 | Truck transportation | F III c iii | no | yes | yes | yes |
| 40 | Warehousing and storage | E I a iii | no | yes | yes | yes |
| 54 | Management of companies | A I a i | yes | yes | yes | yes |
| | ... | | | | | |
| 55 | Administrative and ... | A V b ii | yes | no | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a i | yes | yes | yes | yes |
| 61 | Social assistance | B V b ii | yes | no | yes | yes |
| 65 | Food services and drinking | B I a i | yes | yes | yes | yes |
| | ... | | | | | |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Bradley County, Tennessee vs. the United States

Groups a, b, and c are from Bradley County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Bradley County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Bradley County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Bradley County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Bradley County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Bradley County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

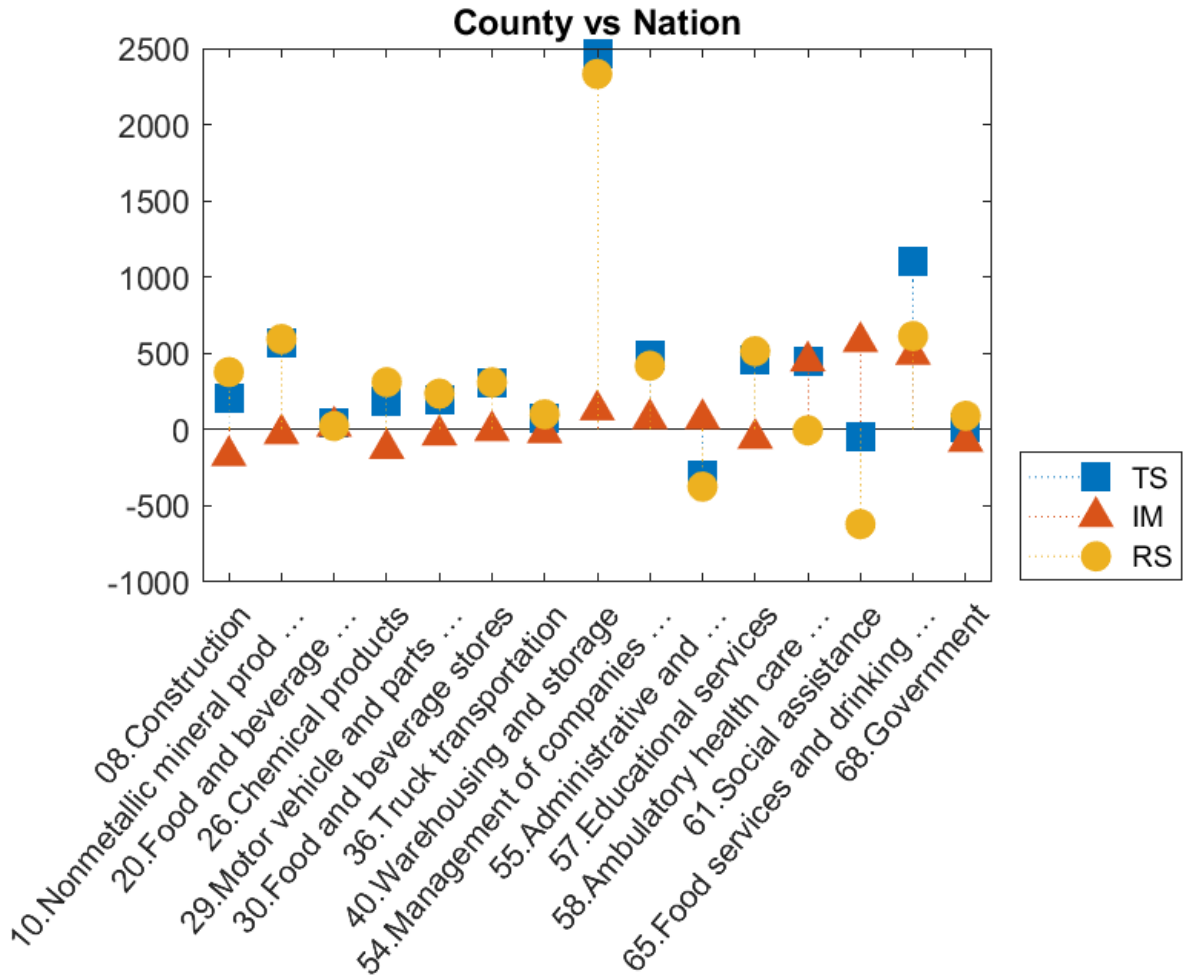
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Bradley County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Bradley County, Tennessee vs the U.S.

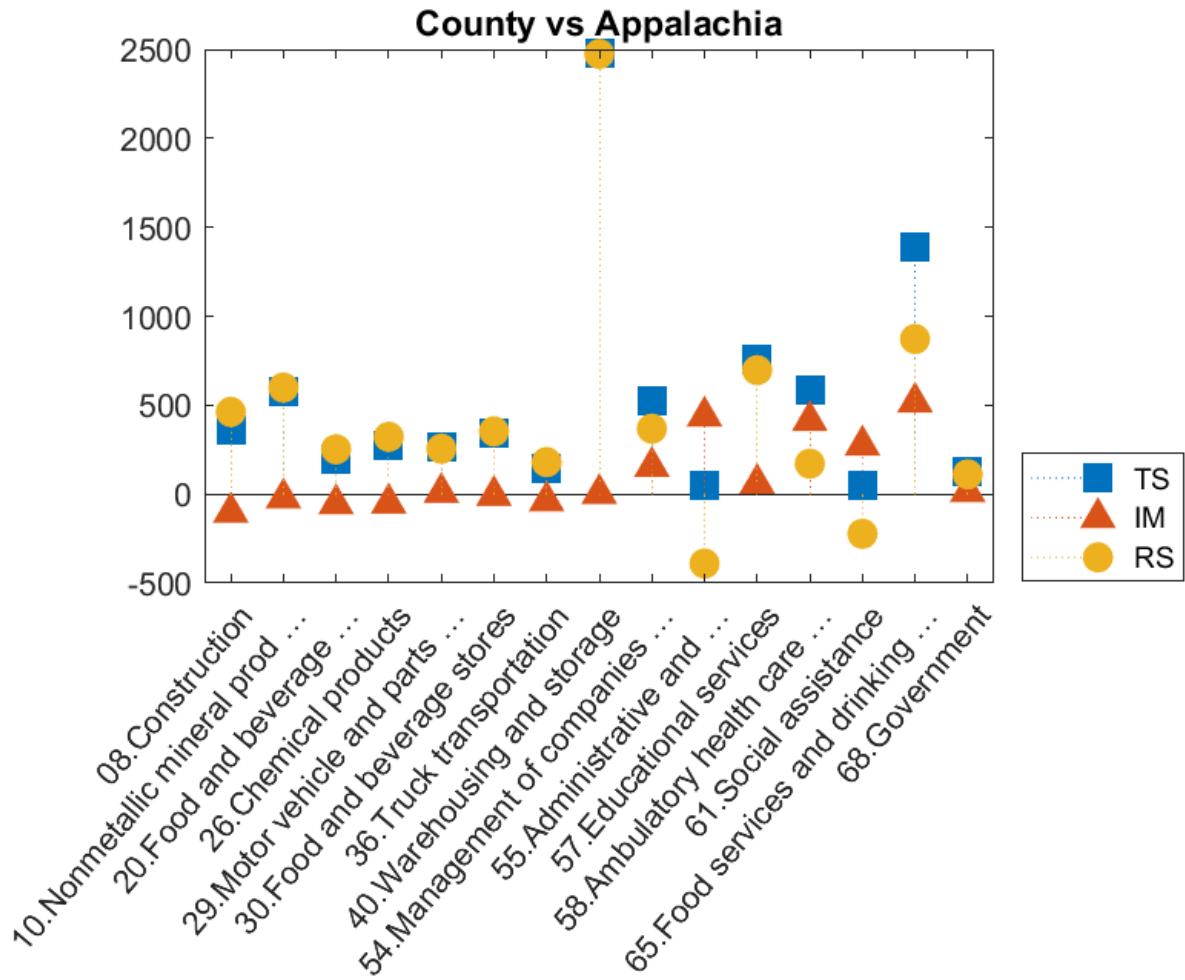


Chapter 4. Bradley County, Tennessee

Bradley County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-------|------|-------|--------------------|
| 08 | Construction | 160 | 205 | -172 | 377 | 1,783 |
| 10 | Nonmetallic mineral prod | 11 | 566 | -28 | 594 | 674 |
| | ... | | | | | |
| 20 | Food and beverage ... | 156 | 45 | 22 | 23 | 1,589 |
| 26 | Chemical products | 87 | 186 | -125 | 311 | 1,049 |
| 29 | Motor vehicle and parts ... | 65 | 200 | -36 | 236 | 844 |
| 30 | Food and beverage stores | 44 | 302 | -8 | 310 | 736 |
| 36 | Truck transportation | 66 | 78 | -22 | 100 | 729 |
| 40 | Warehousing and storage | 17 | 2,460 | 128 | 2,332 | 2,630 |
| 54 | Management of companies | 34 | 490 | 71 | 419 | 826 |
| | ... | | | | | |
| 55 | Administrative and ... | 363 | -304 | 70 | -374 | 3,277 |
| 57 | Educational services | 310 | 456 | -58 | 514 | 3,517 |
| 58 | Ambulatory health care ... | 144 | 444 | 449 | -5 | 1,867 |
| 61 | Social assistance | 99 | -44 | 576 | -620 | 934 |
| 65 | Food services and drinking | 292 | 1,106 | 493 | 613 | 3,986 |
| | ... | | | | | |
| 68 | Government | 117 | 12 | -78 | 90 | 1,162 |

Selected SSA Components for Bradley County, Tennessee vs the Appalachian Region

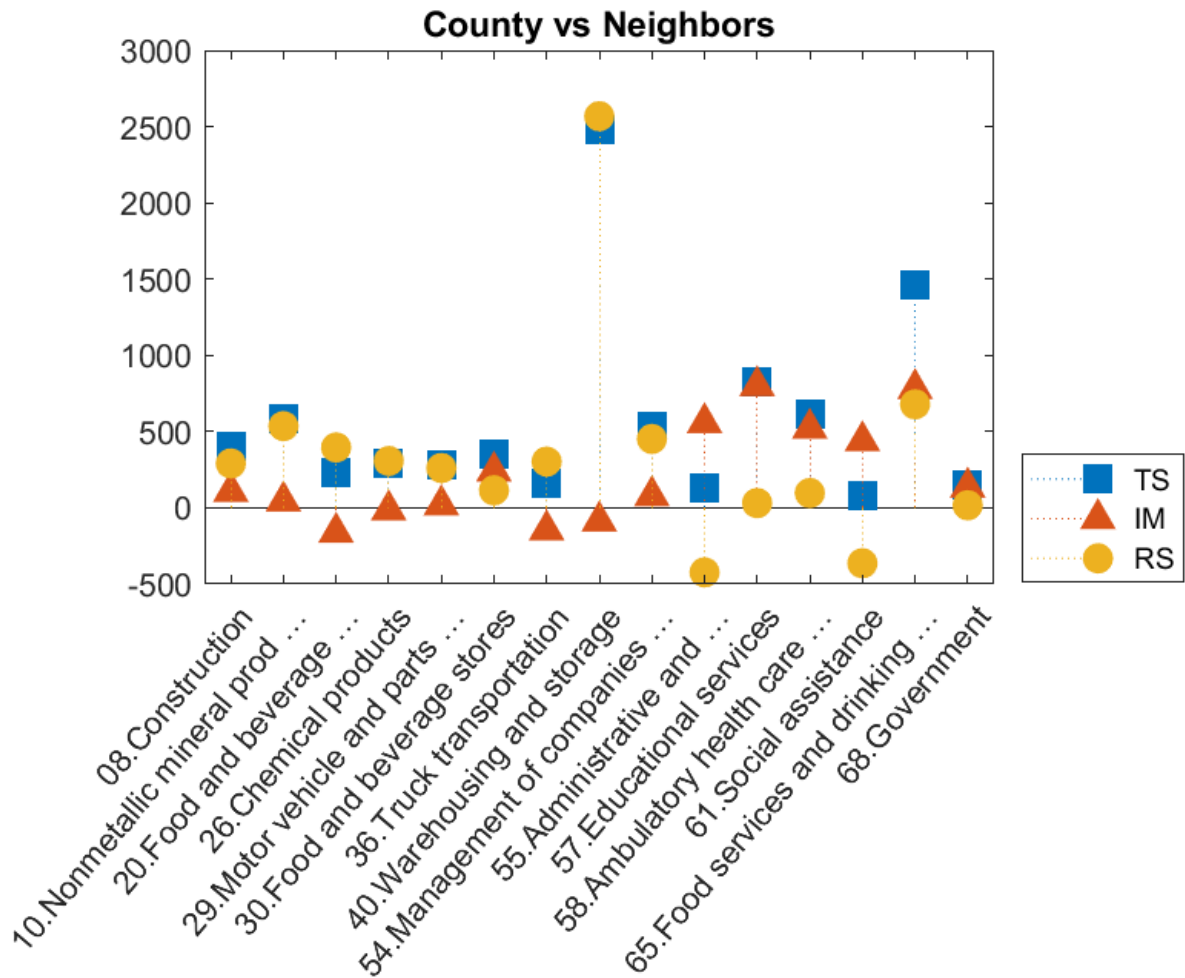


Chapter 4. Bradley County, Tennessee

Selected SSA Components for Bradley County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-------|------|-------|--------------------|
| 08 | Construction | 5 | 360 | -102 | 462 | 1,783 |
| 10 | Nonmetallic mineral prod ... | 0 | 577 | -22 | 599 | 674 |
| 20 | Food and beverage ... | 5 | 197 | -55 | 252 | 1,589 |
| 26 | Chemical products | 3 | 271 | -51 | 322 | 1,049 |
| 29 | Motor vehicle and parts ... | 2 | 264 | 9 | 255 | 844 |
| 30 | Food and beverage stores | 1 | 345 | -8 | 353 | 736 |
| 36 | Truck transportation | 2 | 142 | -38 | 180 | 729 |
| 40 | Warehousing and storage | 1 | 2,477 | 3 | 2,474 | 2,630 |
| 54 | Management of companies ... | 1 | 523 | 155 | 368 | 826 |
| 55 | Administrative and ... | 11 | 48 | 438 | -390 | 3,277 |
| 57 | Educational services | 9 | 757 | 60 | 697 | 3,517 |
| 58 | Ambulatory health care ... | 4 | 584 | 413 | 171 | 1,867 |
| 61 | Social assistance | 3 | 52 | 275 | -223 | 934 |
| 65 | Food services and drinking ... | 9 | 1,389 | 517 | 872 | 3,986 |
| 68 | Government | 4 | 125 | 14 | 111 | 1,162 |

Selected SSA Components for Bradley County, Tennessee vs Neighbors



Chapter 4. Bradley County, Tennessee

Selected SSA Components for Bradley County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|-----|-------|------|-------|--------------------|
| 08 | Construction | -34 | 398 | 107 | 291 | 1,783 |
| 10 | Nonmetallic mineral prod ... | -2 | 580 | 44 | 536 | 674 |
| 20 | Food and beverage ... | -33 | 235 | -161 | 396 | 1,589 |
| 26 | Chemical products | -18 | 293 | -14 | 307 | 1,049 |
| 29 | Motor vehicle and parts ... | -14 | 280 | 19 | 261 | 844 |
| 30 | Food and beverage stores | -9 | 355 | 240 | 115 | 736 |
| 36 | Truck transportation | -14 | 158 | -145 | 303 | 729 |
| 40 | Warehousing and storage | -4 | 2,481 | -87 | 2,568 | 2,630 |
| 54 | Management of companies ... | -7 | 531 | 79 | 452 | 826 |
| 55 | Administrative and ... | -77 | 135 | 558 | -423 | 3,277 |
| 57 | Educational services | -65 | 831 | 800 | 31 | 3,517 |
| 58 | Ambulatory health care ... | -30 | 618 | 521 | 97 | 1,867 |
| 61 | Social assistance | -21 | 76 | 439 | -363 | 934 |
| 65 | Food services and drinking ... | -62 | 1,460 | 781 | 679 | 3,986 |
| 68 | Government | -25 | 152 | 135 | 17 | 1,162 |

Chapter 5. Campbell County, Tennessee

Employment in Campbell County, Tennessee, declined from 10,672 in 2005 to 9,461 in 2018, for a change of -1,211, or -11.35%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Campbell County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|------|--------|
| vs. U.S. | 1,206 | -2,414 | -448 | -1,966 |
| vs. Appalachia | 32 | -1,242 | -100 | -1,142 |
| vs. Neighbors | -546 | -667 | -241 | -426 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Campbell County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 5. Campbell County, Tennessee

Industry Group Membership for Campbell County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 15 | Electrical equipment, ... | D III c i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a i | yes | yes | yes | yes |
| 63 | Amusements, gambling, ... | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II a i | yes | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Campbell County, Tennessee vs. the United States

Groups a, b, and c are from Campbell County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Campbell County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Campbell County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Campbell County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Campbell County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Campbell County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

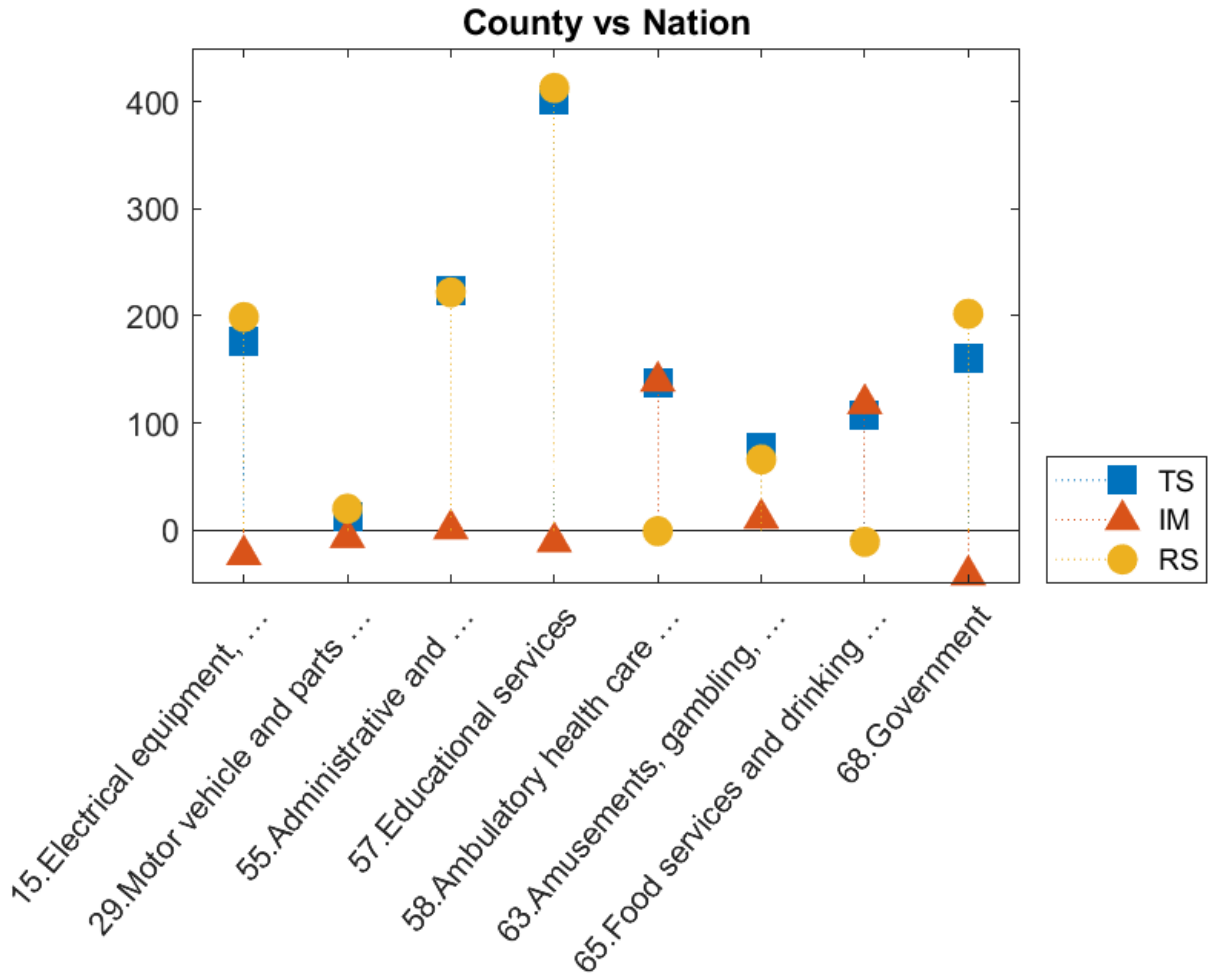
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Campbell County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Campbell County, Tennessee vs the U.S.

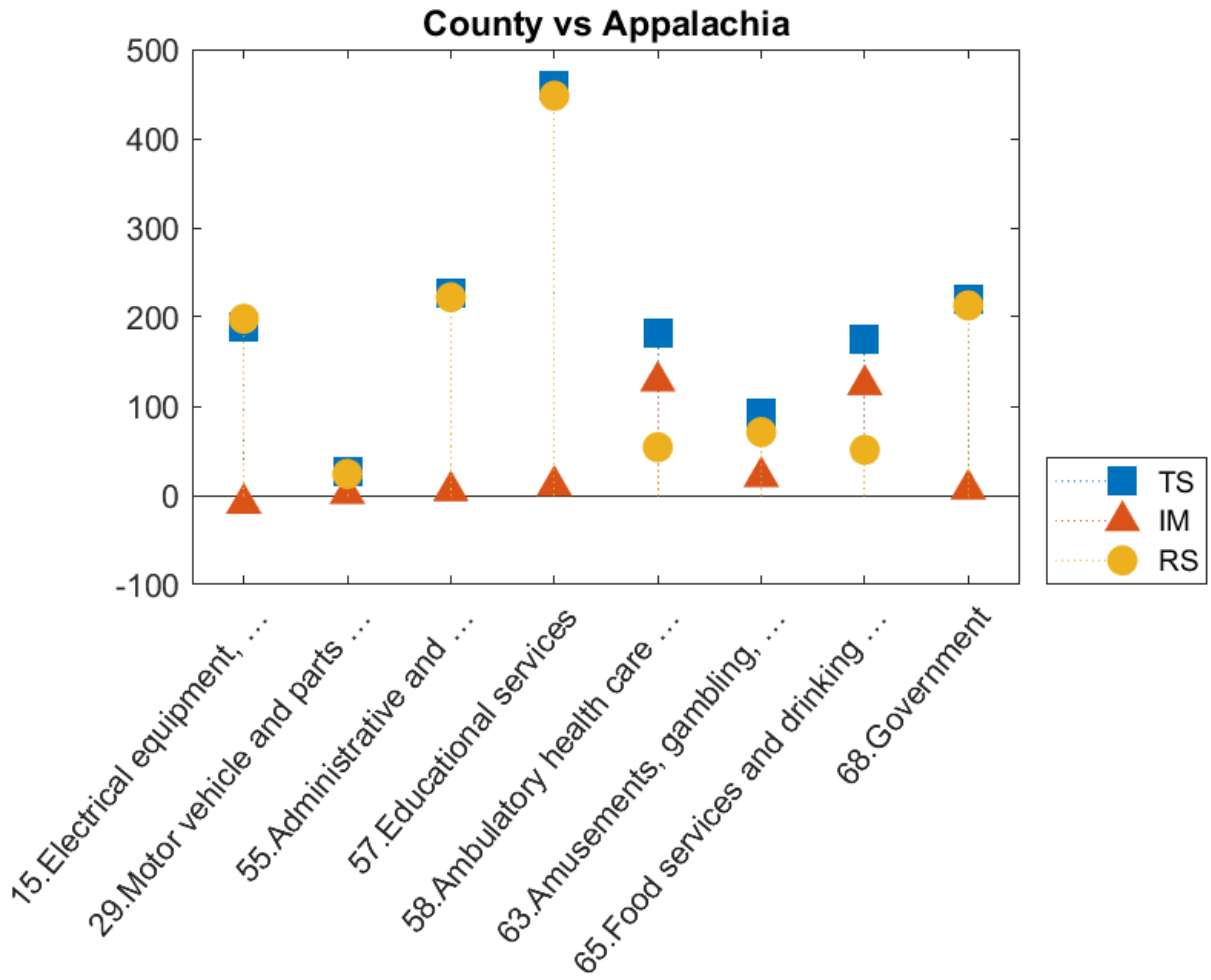


Chapter 5. Campbell County, Tennessee

Campbell County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 15 | Electrical equipment, ... | 13 | 176 | -23 | 199 | 305 |
| 29 | Motor vehicle and parts ... | 13 | 13 | -7 | 20 | 143 |
| 55 | Administrative and ... | 4 | 223 | 1 | 222 | 266 |
| 57 | Educational services | 59 | 402 | -11 | 413 | 987 |
| 58 | Ambulatory health care ... | 45 | 138 | 139 | -1 | 579 |
| 63 | Amusements, gambling, ... | 16 | 77 | 11 | 66 | 232 |
| 65 | Food services and drinking ... | 70 | 107 | 118 | -11 | 795 |
| 68 | Government | 63 | 160 | -42 | 202 | 777 |

Selected SSA Components for Campbell County, Tennessee vs the Appalachian Region

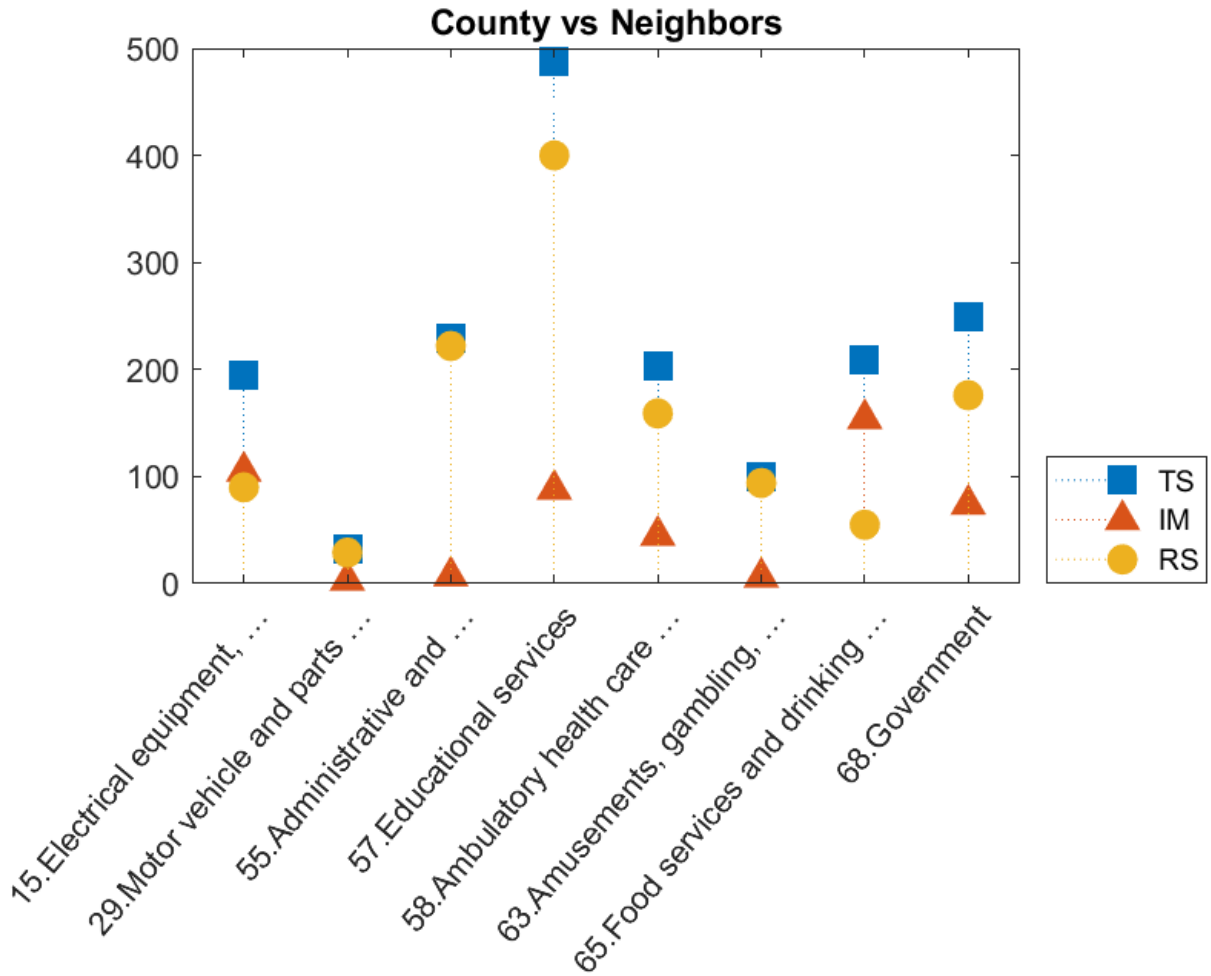


Chapter 5. Campbell County, Tennessee

Selected SSA Components for Campbell County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 15 | Electrical equipment, ... | 0 | 189 | -9 | 198 | 305 |
| 29 | Motor vehicle and parts ... | 0 | 26 | 2 | 24 | 143 |
| 55 | Administrative and ... | 0 | 227 | 5 | 222 | 266 |
| 57 | Educational services | 2 | 459 | 11 | 448 | 987 |
| 58 | Ambulatory health care ... | 1 | 182 | 128 | 54 | 579 |
| 63 | Amusements, gambling, ... | 0 | 92 | 21 | 71 | 232 |
| 65 | Food services and drinking ... | 2 | 175 | 124 | 51 | 795 |
| 68 | Government | 2 | 220 | 7 | 213 | 777 |

Selected SSA Components for Campbell County, Tennessee vs Neighbors



Chapter 5. Campbell County, Tennessee

Selected SSA Components for Campbell County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|-----|-----|--------------------|
| 15 | Electrical equipment, ... | -6 | 195 | 105 | 90 | 305 |
| 29 | Motor vehicle and parts ... | -6 | 32 | 3 | 29 | 143 |
| 55 | Administrative and ... | -2 | 229 | 7 | 222 | 266 |
| 57 | Educational services | -27 | 488 | 88 | 400 | 987 |
| 58 | Ambulatory health care ... | -20 | 204 | 45 | 159 | 579 |
| 63 | Amusements, gambling, ... | -7 | 100 | 6 | 94 | 232 |
| 65 | Food services and drinking ... | -32 | 209 | 154 | 55 | 795 |
| 68 | Government | -28 | 250 | 74 | 176 | 777 |

Chapter 6. Cannon County, Tennessee

Employment in Cannon County, Tennessee, declined from 2,837 in 2005 to 2,205 in 2018, for a change of -632, or -22.28%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Cannon County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|--------|------|--------|
| vs. U.S. | 318 | -952 | -119 | -833 |
| vs. Appalachia | 7 | -643 | -18 | -625 |
| vs. Neighbors | 766 | -1,400 | 328 | -1,728 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Cannon County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 6. Cannon County, Tennessee

Industry Group Membership for Cannon County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 20 | Food and beverage ... | E I a i | no | yes | yes | yes |
| 28 | Wholesale trade | F III c iii | no | yes | yes | yes |
| 32 | Other retail | F III c iv | no | yes | yes | no |
| 36 | Truck transportation | F I c i | no | yes | yes | yes |
| 39 | Other transportation ... | E I c i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a ii | no | yes | yes | yes |
| 65 | Food services and drinking ... | B II b v | yes | yes | yes | no |
| 66 | Other services, exc. gov ... | F III c ii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Cannon County, Tennessee vs. the United States

Groups a, b, and c are from Cannon County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Cannon County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Cannon County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Cannon County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Cannon County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Cannon County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

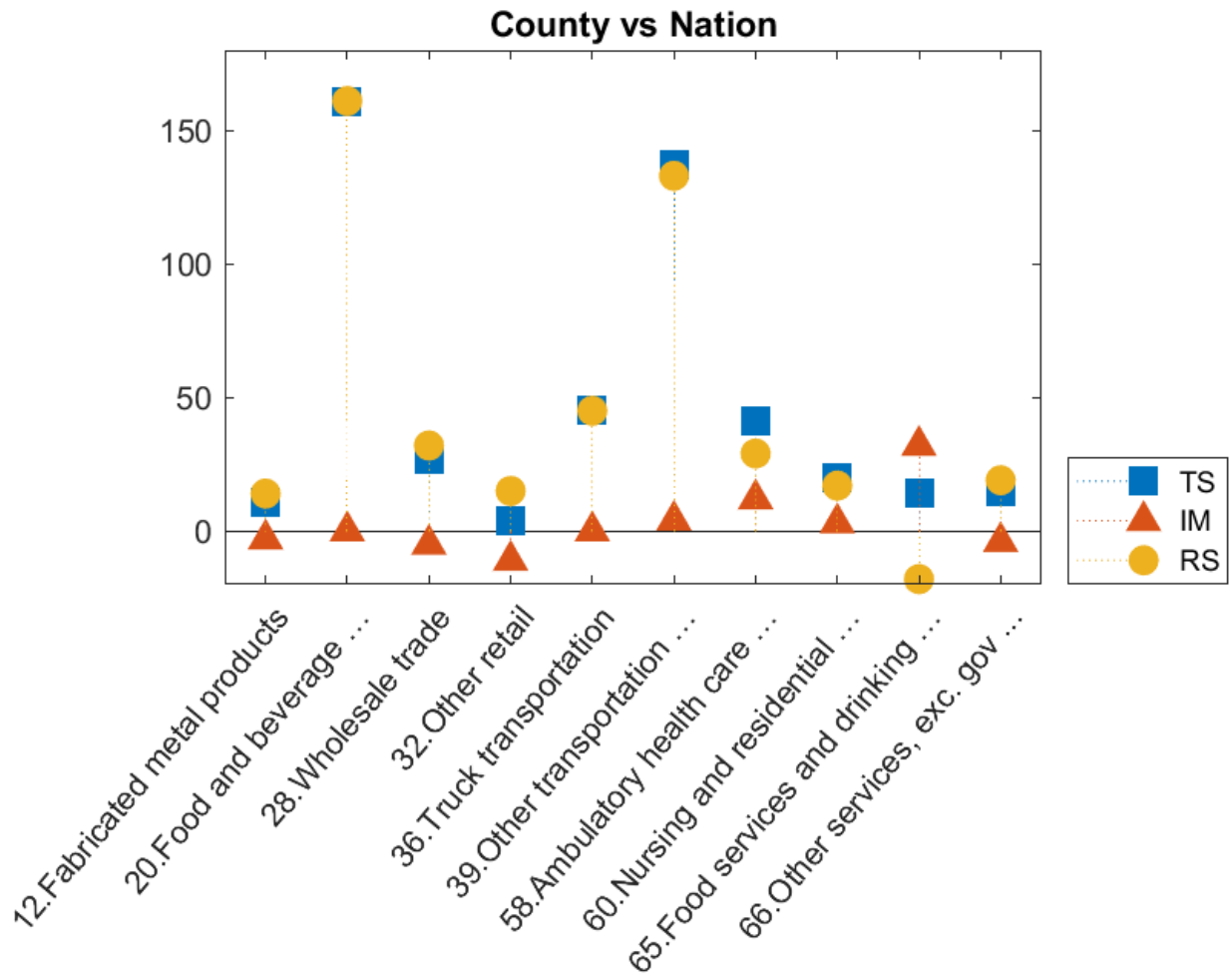
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Cannon County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Cannon County, Tennessee vs the U.S.

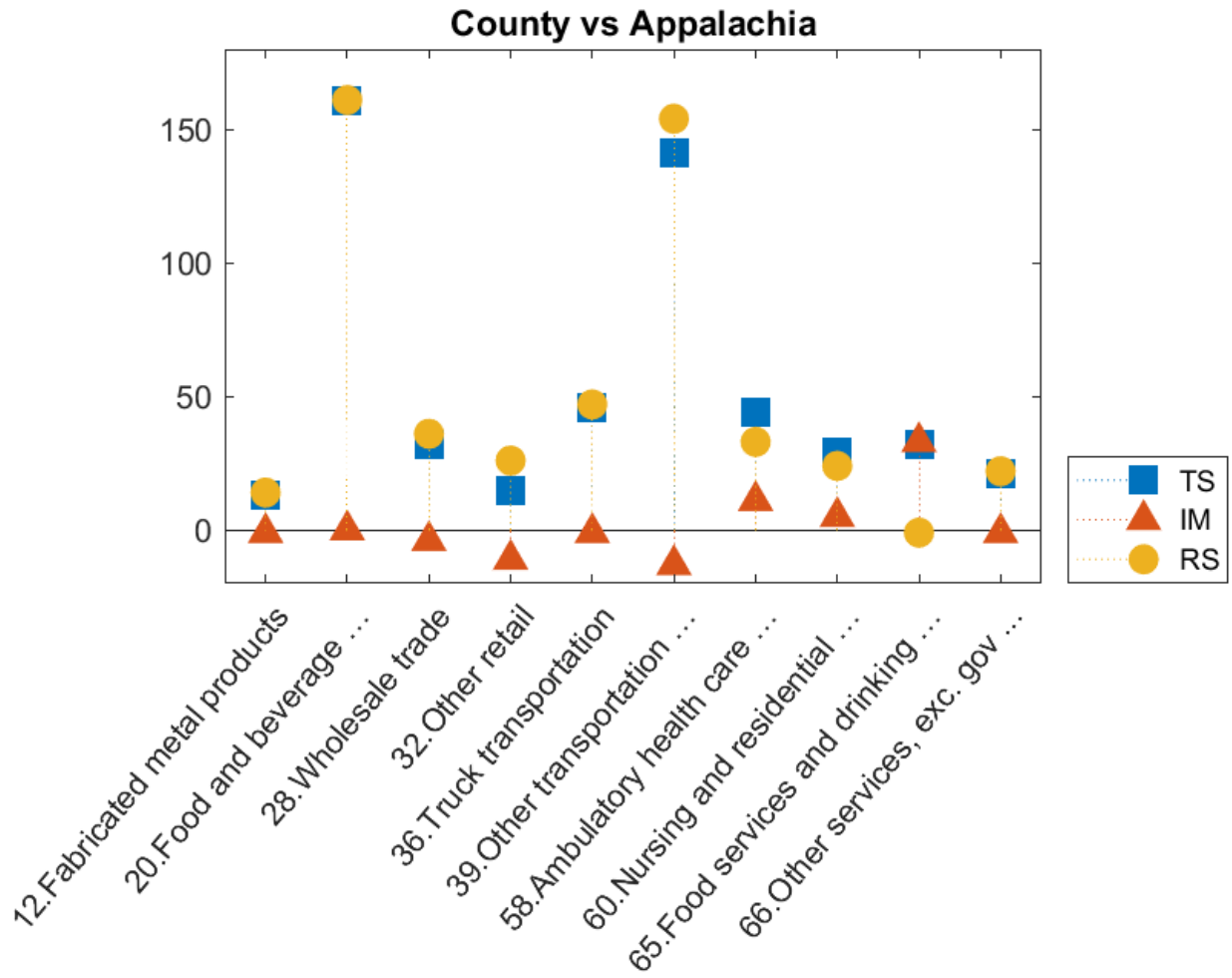


Chapter 6. Cannon County, Tennessee

Cannon County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 12 | Fabricated metal products | 2 | 11 | -3 | 14 | 31 |
| 20 | Food and beverage ... | 0 | 161 | 0 | 161 | 161 |
| 28 | Wholesale trade | 6 | 27 | -5 | 32 | 87 |
| 32 | Other retail | 11 | 4 | -11 | 15 | 116 |
| 36 | Truck transportation | 1 | 45 | -0 | 45 | 56 |
| 39 | Other transportation ... | 3 | 137 | 4 | 133 | 172 |
| 58 | Ambulatory health care ... | 4 | 41 | 12 | 29 | 77 |
| 60 | Nursing and residential ... | 9 | 20 | 3 | 17 | 106 |
| 65 | Food services and drinking ... | 19 | 14 | 32 | -18 | 200 |
| 66 | Other services, exc. gov ... | 6 | 15 | -4 | 19 | 71 |

Selected SSA Components for Cannon County, Tennessee vs the Appalachian Region

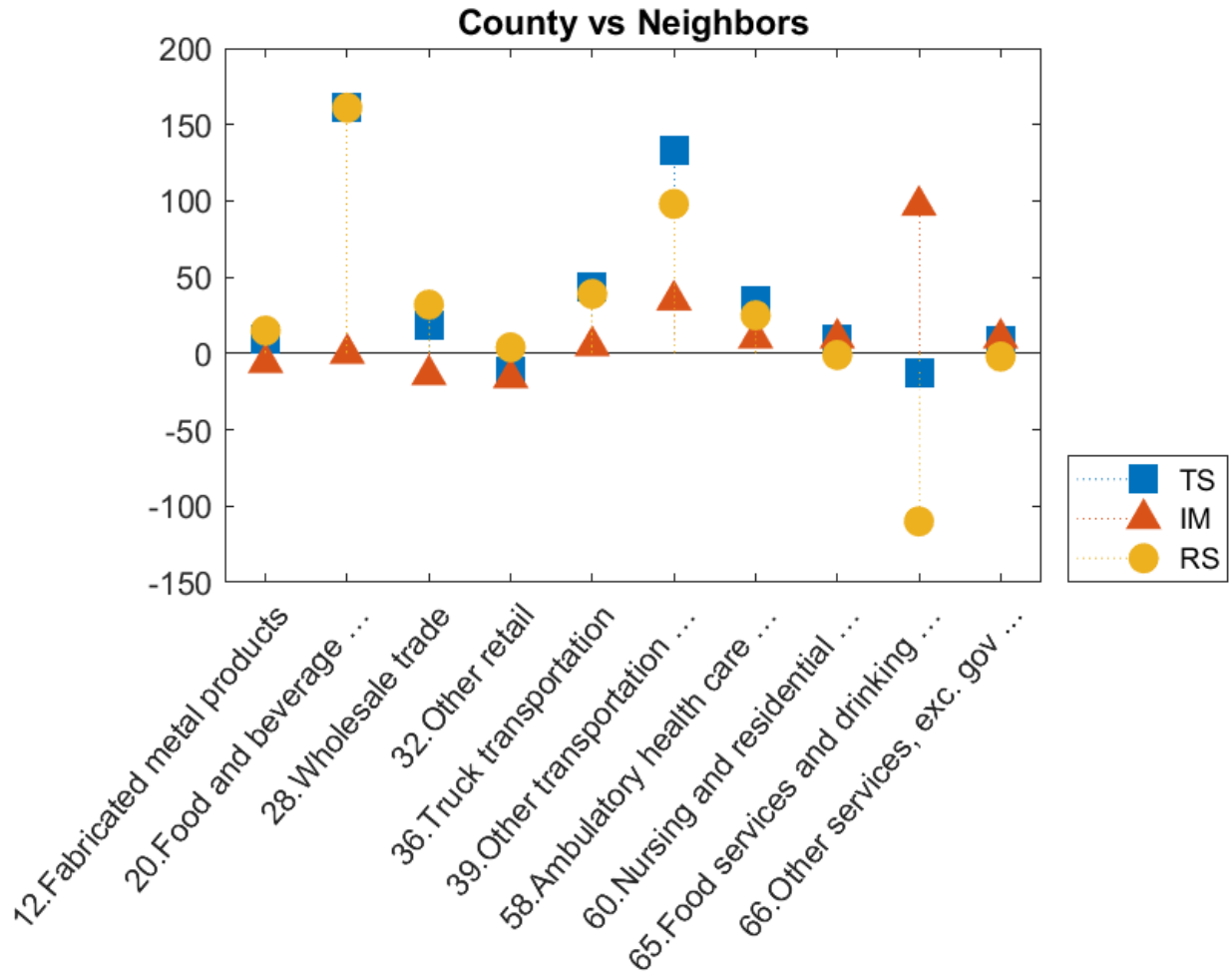


Chapter 6. Cannon County, Tennessee

Selected SSA Components for Cannon County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 12 | Fabricated metal products | 0 | 13 | -1 | 14 | 31 |
| 20 | Food and beverage ... | 0 | 161 | 0 | 161 | 161 |
| 28 | Wholesale trade | 0 | 32 | -4 | 36 | 87 |
| 32 | Other retail | 0 | 15 | -11 | 26 | 116 |
| 36 | Truck transportation | 0 | 46 | -1 | 47 | 56 |
| 39 | Other transportation ... | 0 | 141 | -13 | 154 | 172 |
| 58 | Ambulatory health care ... | 0 | 44 | 11 | 33 | 77 |
| 60 | Nursing and residential ... | 0 | 29 | 5 | 24 | 106 |
| 65 | Food services and drinking ... | 1 | 32 | 33 | -1 | 200 |
| 66 | Other services, exc. gov ... | 0 | 21 | -1 | 22 | 71 |

Selected SSA Components for Cannon County, Tennessee vs Neighbors



Chapter 6. Cannon County, Tennessee

Selected SSA Components for Cannon County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|------|--------------------|
| 12 | Fabricated metal products | 5 | 9 | -6 | 15 | 31 |
| 20 | Food and beverage ... | 0 | 161 | 0 | 161 | 161 |
| 28 | Wholesale trade | 15 | 18 | -14 | 32 | 87 |
| 32 | Other retail | 27 | -12 | -16 | 4 | 116 |
| 36 | Truck transportation | 3 | 44 | 5 | 39 | 56 |
| 39 | Other transportation ... | 8 | 133 | 35 | 98 | 172 |
| 58 | Ambulatory health care ... | 9 | 35 | 10 | 25 | 77 |
| 60 | Nursing and residential ... | 21 | 9 | 10 | -1 | 106 |
| 65 | Food services and drinking ... | 45 | -13 | 97 | -110 | 200 |
| 66 | Other services, exc. gov ... | 14 | 8 | 10 | -2 | 71 |

Chapter 7. Carter County, Tennessee

Employment in Carter County, Tennessee, grew from 11,064 in 2005 to 11,157 in 2018, for a change of 93, or 0.84%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Carter County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|------|------|
| vs. U.S. | 1,248 | -1,158 | -267 | -891 |
| vs. Appalachia | 36 | 50 | 62 | -12 |
| vs. Neighbors | -94 | 192 | 532 | -340 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Carter County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 7. Carter County, Tennessee

Industry Group Membership for Carter County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 11 | Primary metals | F III c i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 65 | Food services and drinking ... | B II b ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c iii | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Carter County, Tennessee vs. the United States

Groups a, b, and c are from Carter County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Carter County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Carter County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Carter County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Carter County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Carter County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

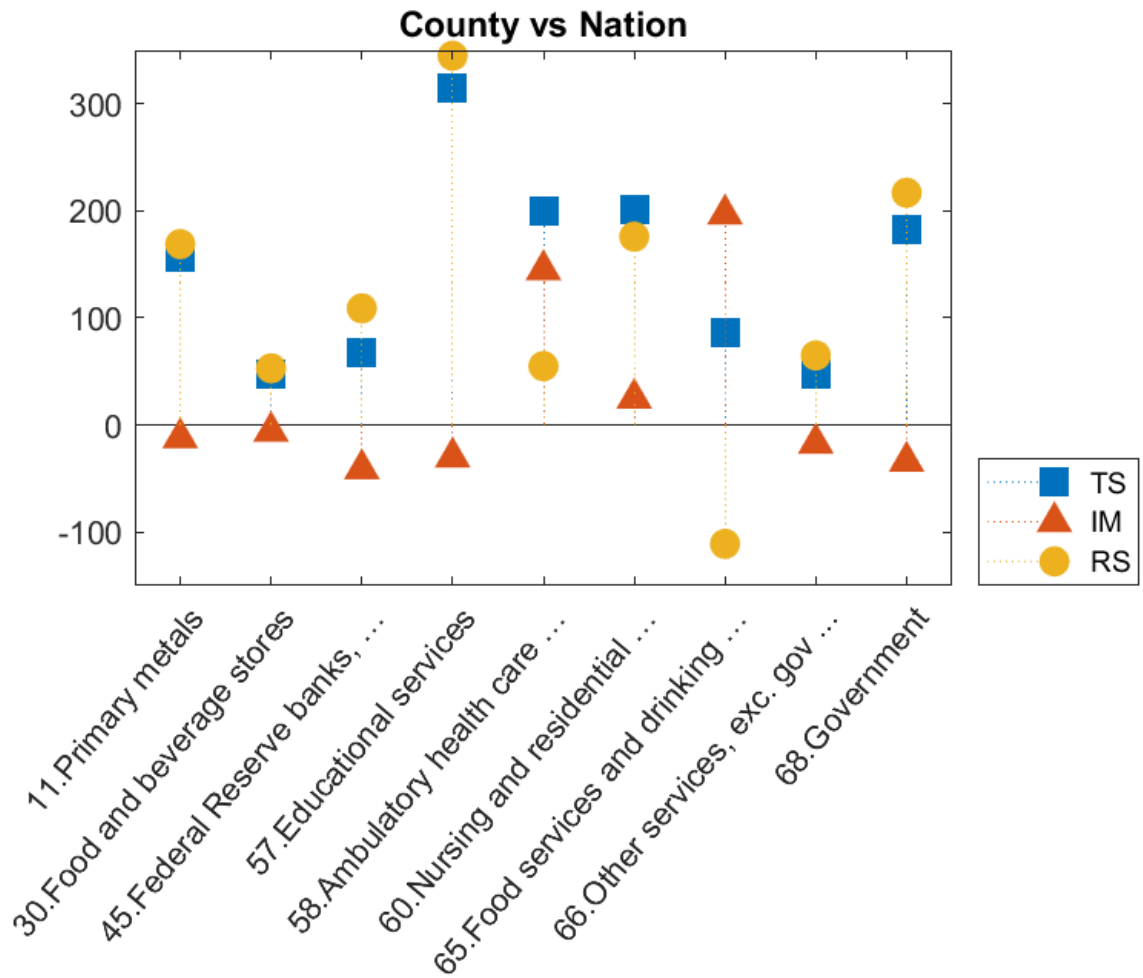
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Carter County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Carter County, Tennessee vs the U.S.

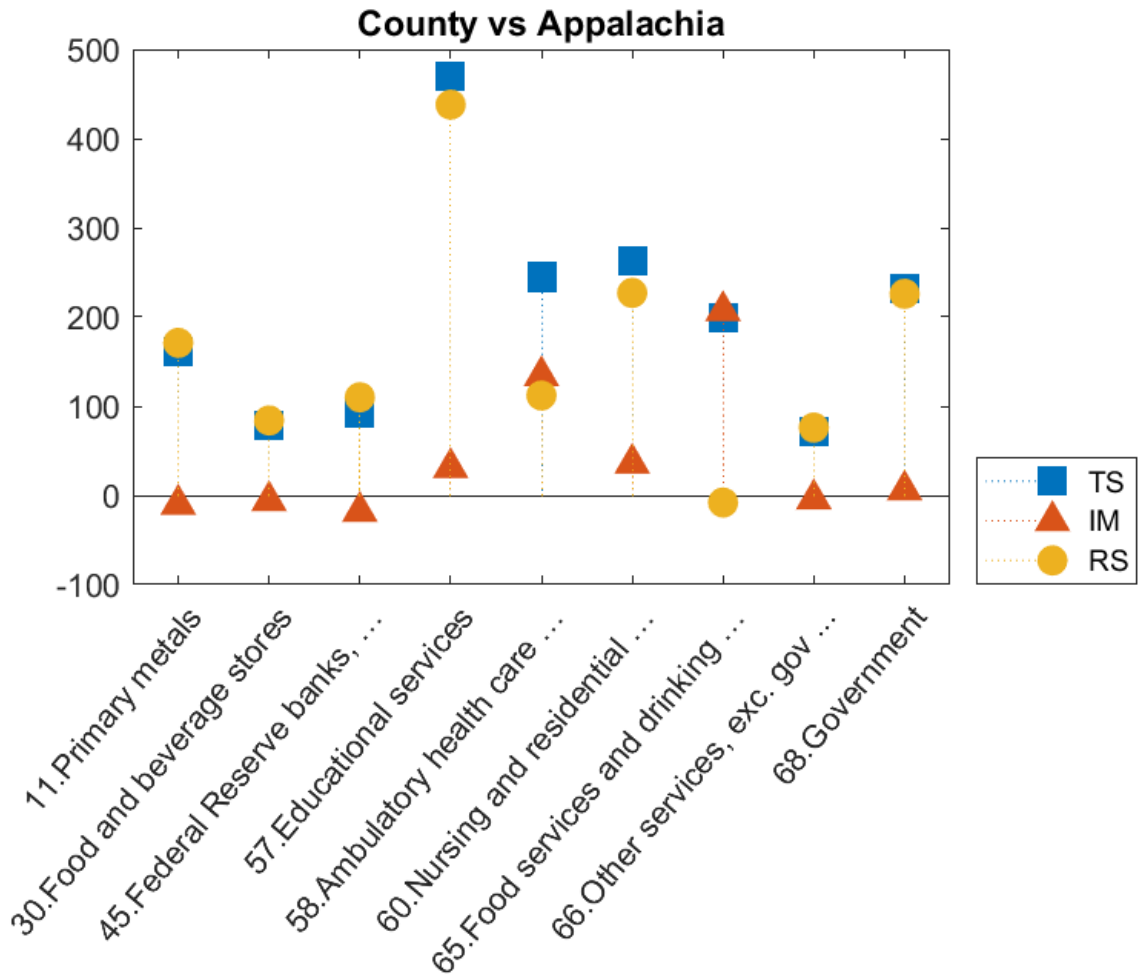


Chapter 7. Carter County, Tennessee

Carter County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|-----|------|--------------------|
| 11 | Primary metals | 5 | 157 | -12 | 169 | 203 |
| 30 | Food and beverage stores | 31 | 47 | -6 | 53 | 357 |
| 45 | Federal Reserve banks, ... | 24 | 68 | -41 | 109 | 302 |
| 57 | Educational services | 159 | 315 | -30 | 345 | 1,883 |
| 58 | Ambulatory health care ... | 47 | 200 | 145 | 55 | 661 |
| 60 | Nursing and residential ... | 64 | 201 | 25 | 176 | 834 |
| 65 | Food services and drinking ... | 117 | 86 | 197 | -111 | 1,236 |
| 66 | Other services, exc. gov ... | 25 | 48 | -17 | 65 | 292 |
| 68 | Government | 51 | 183 | -34 | 217 | 687 |

Selected SSA Components for Carter County, Tennessee vs the Appalachian Region

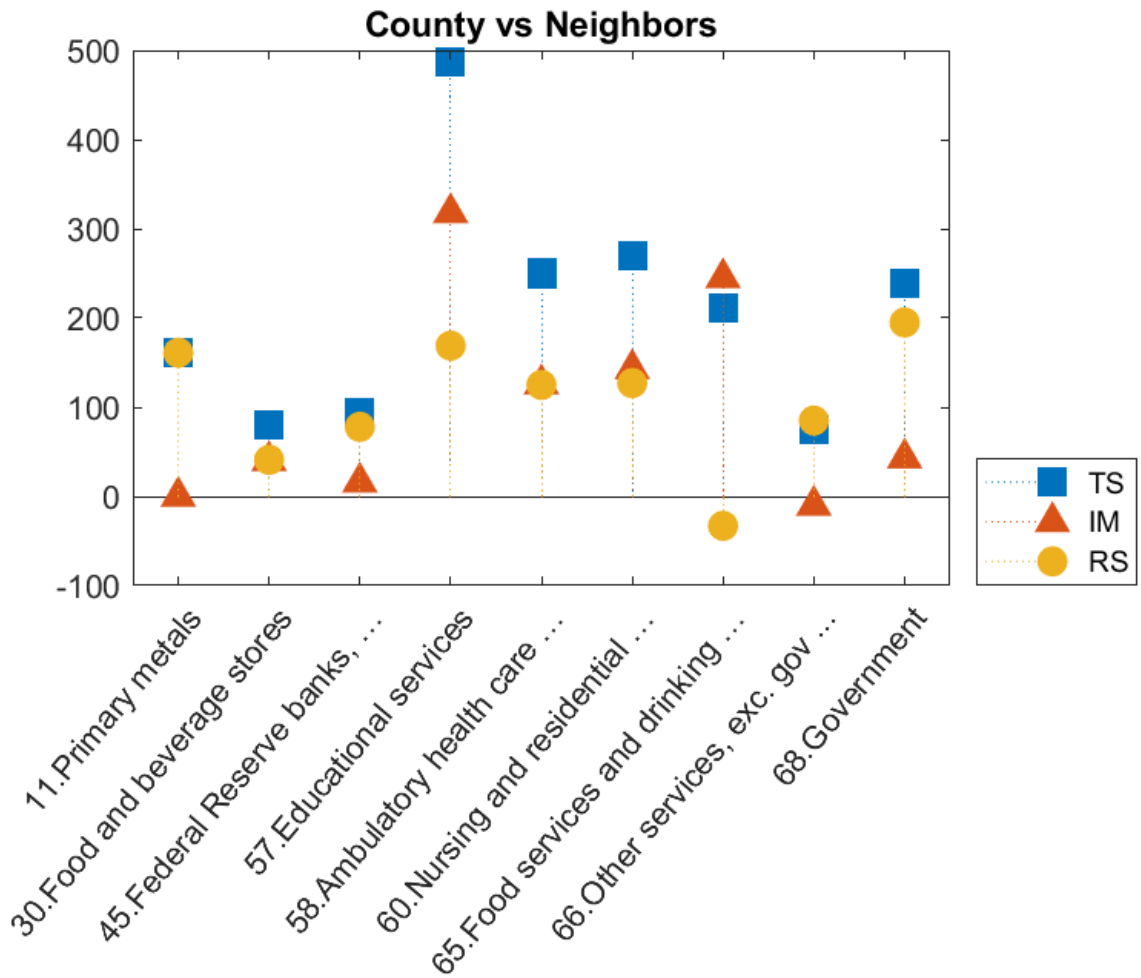


Chapter 7. Carter County, Tennessee

Selected SSA Components for Carter County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|-----------------|
| 11 | Primary metals | 0 | 161 | -10 | 171 | 203 |
| 30 | Food and beverage stores | 1 | 78 | -6 | 84 | 357 |
| 45 | Federal Reserve banks, ... | 1 | 92 | -18 | 110 | 302 |
| 57 | Educational services | 5 | 469 | 31 | 438 | 1,883 |
| 58 | Ambulatory health care ... | 1 | 246 | 134 | 112 | 661 |
| 60 | Nursing and residential ... | 2 | 263 | 36 | 227 | 834 |
| 65 | Food services and drinking ... | 4 | 199 | 207 | -8 | 1,236 |
| 66 | Other services, exc. gov ... | 1 | 72 | -4 | 76 | 292 |
| 68 | Government | 2 | 232 | 6 | 226 | 687 |

Selected SSA Components for Carter County, Tennessee vs Neighbors



Chapter 7. Carter County, Tennessee

Selected SSA Components for Carter County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|-----|-----|--------------------|
| 11 | Primary metals | -0 | 161 | 0 | 161 | 203 |
| 30 | Food and beverage stores | -2 | 81 | 40 | 41 | 357 |
| 45 | Federal Reserve banks, ... | -2 | 94 | 16 | 78 | 302 |
| 57 | Educational services | -13 | 487 | 318 | 169 | 1,883 |
| 58 | Ambulatory health care ... | -4 | 251 | 126 | 125 | 661 |
| 60 | Nursing and residential ... | -5 | 270 | 143 | 127 | 834 |
| 65 | Food services and drinking ... | -9 | 212 | 245 | -33 | 1,236 |
| 66 | Other services, exc. gov ... | -2 | 75 | -10 | 85 | 292 |
| 68 | Government | -4 | 238 | 43 | 195 | 687 |

Chapter 8. Claiborne County, Tennessee

Employment in Claiborne County, Tennessee, declined from 9,634 in 2005 to 9,019 in 2018, for a change of -615, or -6.38%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Claiborne County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|--------|--------|------|------|
| vs. U.S. | 1,083 | -1,702 | -947 | -755 |
| vs. Appalachia | 31 | -646 | -841 | 195 |
| vs. Neighbors | -1,114 | 502 | -170 | 672 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Claiborne County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 8. Claiborne County, Tennessee

Industry Group Membership for Claiborne County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 16 | Motor vehicles, bodies ... | C III b iii | yes | yes | yes | yes |
| 22 | Apparel and leather ... | F III c iii | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D I a i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B V e iii | yes | no | no | yes |
| 59 | Hospitals | E I a iii | no | yes | yes | yes |
| 65 | Food services and drinking ... | B V b ii | yes | no | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Claiborne County, Tennessee vs. the United States

Groups a, b, and c are from Claiborne County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Claiborne County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Claiborne County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Claiborne County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Claiborne County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Claiborne County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

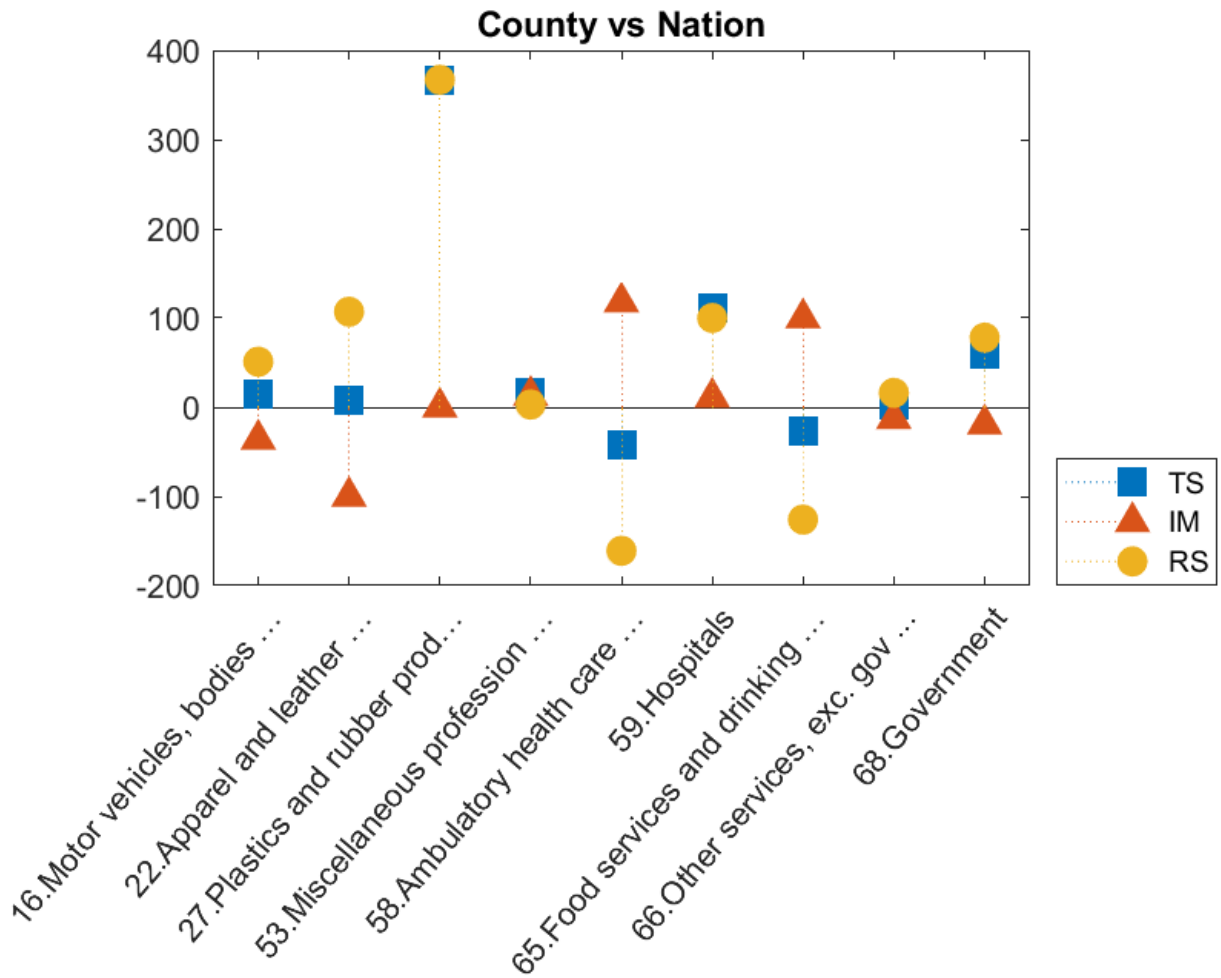
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Claiborne County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Claiborne County, Tennessee vs the U.S.

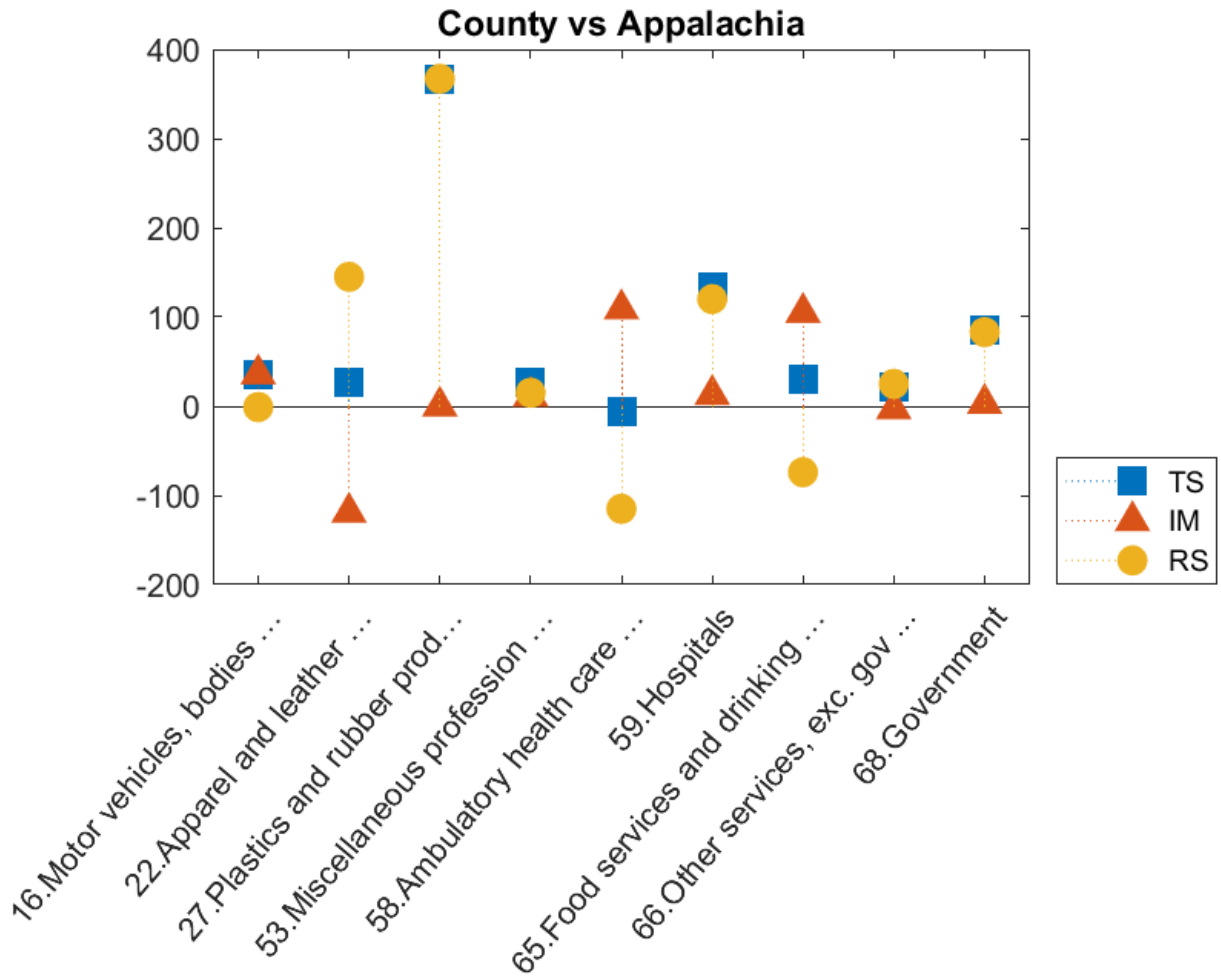


Chapter 8. Claiborne County, Tennessee

Claiborne County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|------|------|--------------------|
| 16 | Motor vehicles, bodies ... | 20 | 15 | -36 | 51 | 213 |
| 22 | Apparel and leather ... | 20 | 7 | -100 | 107 | 206 |
| 27 | Plastics and rubber prod... | 0 | 367 | 0 | 367 | 367 |
| 53 | Miscellaneous profession ... | 9 | 16 | 13 | 3 | 105 |
| 58 | Ambulatory health care ... | 38 | -43 | 118 | -161 | 332 |
| 59 | Hospitals | 23 | 111 | 11 | 100 | 335 |
| 65 | Food services and drinking ... | 59 | -26 | 100 | -126 | 557 |
| 66 | Other services, exc. gov ... | 19 | 3 | -13 | 16 | 193 |
| 68 | Government | 28 | 59 | -19 | 78 | 335 |

Selected SSA Components for Claiborne County, Tennessee vs the Appalachian Region

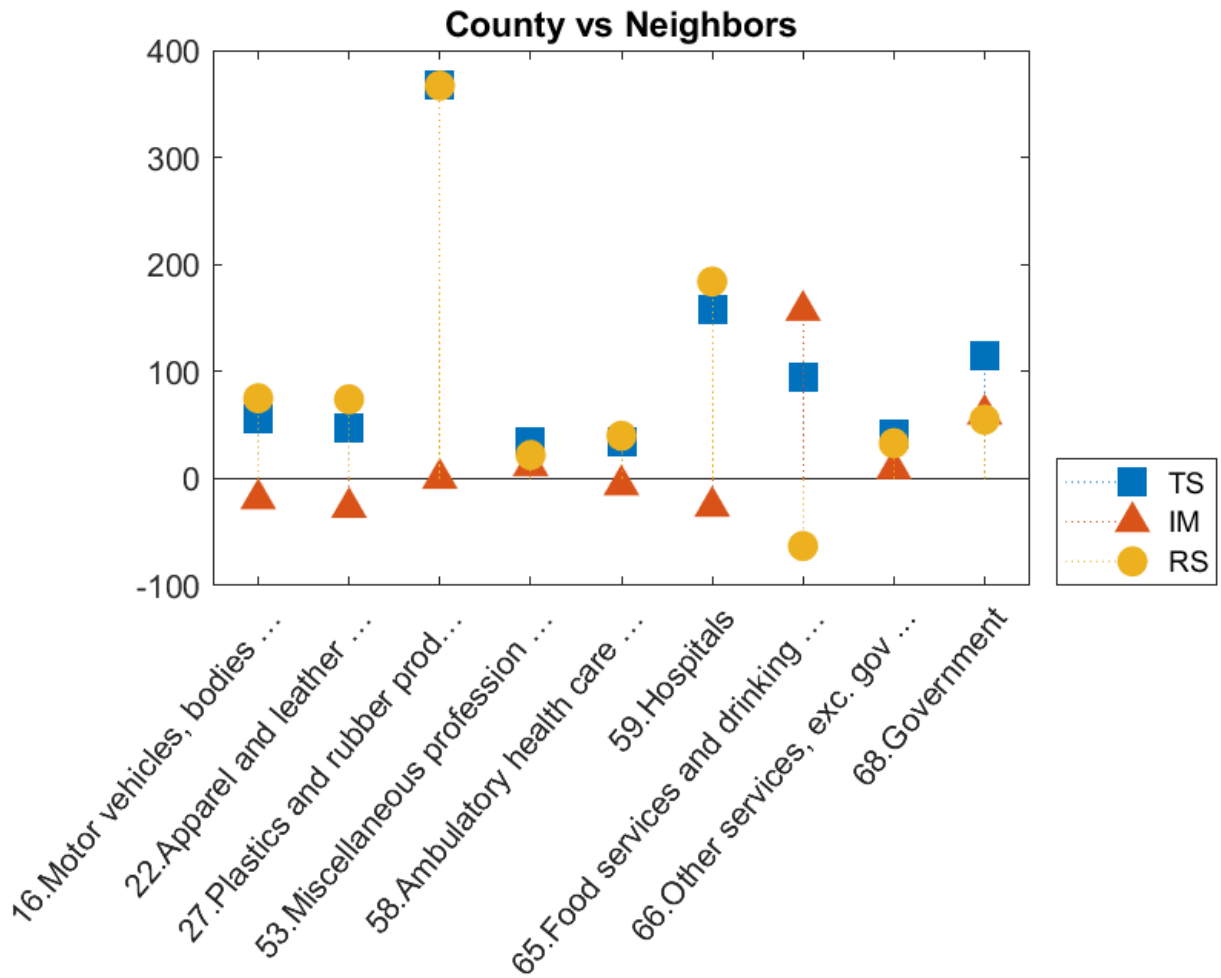


Chapter 8. Claiborne County, Tennessee

Selected SSA Components for Claiborne County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|------|------|--------------------|
| 16 | Motor vehicles, bodies ... | 1 | 35 | 36 | -1 | 213 |
| 22 | Apparel and leather ... | 1 | 26 | -119 | 145 | 206 |
| 27 | Plastics and rubber prod... | 0 | 367 | 0 | 367 | 367 |
| 53 | Miscellaneous profession ... | 0 | 26 | 11 | 15 | 105 |
| 58 | Ambulatory health care ... | 1 | -6 | 109 | -115 | 332 |
| 59 | Hospitals | 1 | 133 | 13 | 120 | 335 |
| 65 | Food services and drinking ... | 2 | 31 | 105 | -74 | 557 |
| 66 | Other services, exc. gov ... | 1 | 22 | -3 | 25 | 193 |
| 68 | Government | 1 | 86 | 3 | 83 | 335 |

Selected SSA Components for Claiborne County, Tennessee vs Neighbors



Chapter 8. Claiborne County, Tennessee

Selected SSA Components for Claiborne County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|-----|-----|--------------------|
| 16 | Motor vehicles, bodies ... | -21 | 56 | -19 | 75 | 213 |
| 22 | Apparel and leather ... | -21 | 47 | -27 | 74 | 206 |
| 27 | Plastics and rubber prod... | -0 | 367 | 0 | 367 | 367 |
| 53 | Miscellaneous profession ... | -9 | 34 | 12 | 22 | 105 |
| 58 | Ambulatory health care ... | -39 | 34 | -6 | 40 | 332 |
| 59 | Hospitals | -23 | 158 | -26 | 184 | 335 |
| 65 | Food services and drinking ... | -61 | 94 | 157 | -63 | 557 |
| 66 | Other services, exc. gov ... | -20 | 42 | 9 | 33 | 193 |
| 68 | Government | -29 | 115 | 60 | 55 | 335 |

Chapter 9. Clay County, Tennessee

Employment in Clay County, Tennessee, declined from 1,741 in 2005 to 1,458 in 2018, for a change of -283, or -16.26%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Clay County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|------|----|------|
| vs. U.S. | 191 | -477 | -8 | -469 |
| vs. Appalachia | 3 | -290 | 27 | -317 |
| vs. Neighbors | -75 | -202 | 56 | -258 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Clay County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 9. Clay County, Tennessee

Industry Group Membership for Clay County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 18 | Furniture and related ... | F I a i | no | yes | yes | yes |
| 26 | Chemical products | F I a i | no | yes | yes | yes |
| 36 | Truck transportation | F III c iii | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B V b ii | yes | no | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 63 | Amusements, gambling, ... | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II a ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Clay County, Tennessee vs. the United States

Groups a, b, and c are from Clay County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Clay County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Clay County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Clay County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

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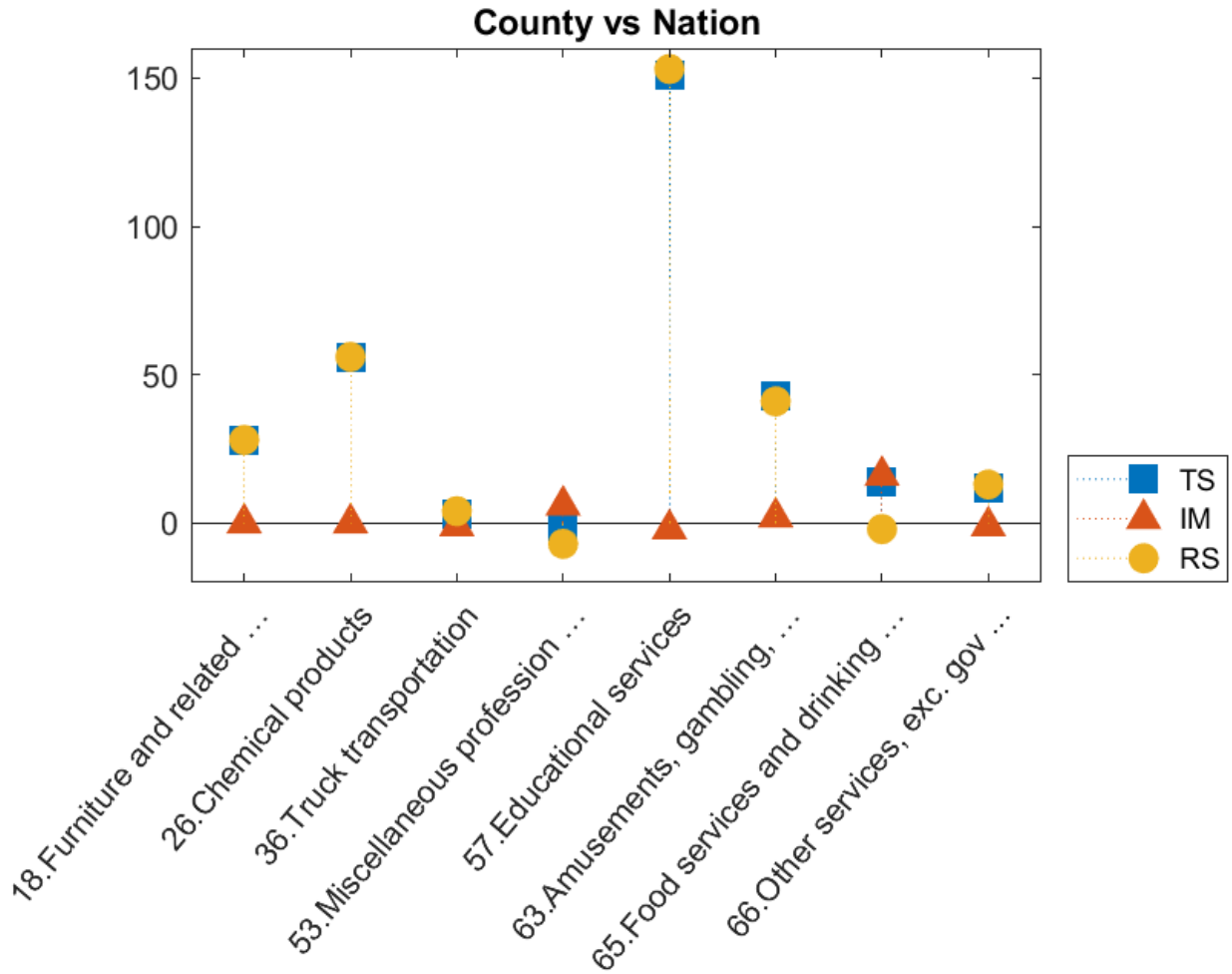
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Clay County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Clay County, Tennessee vs the U.S.

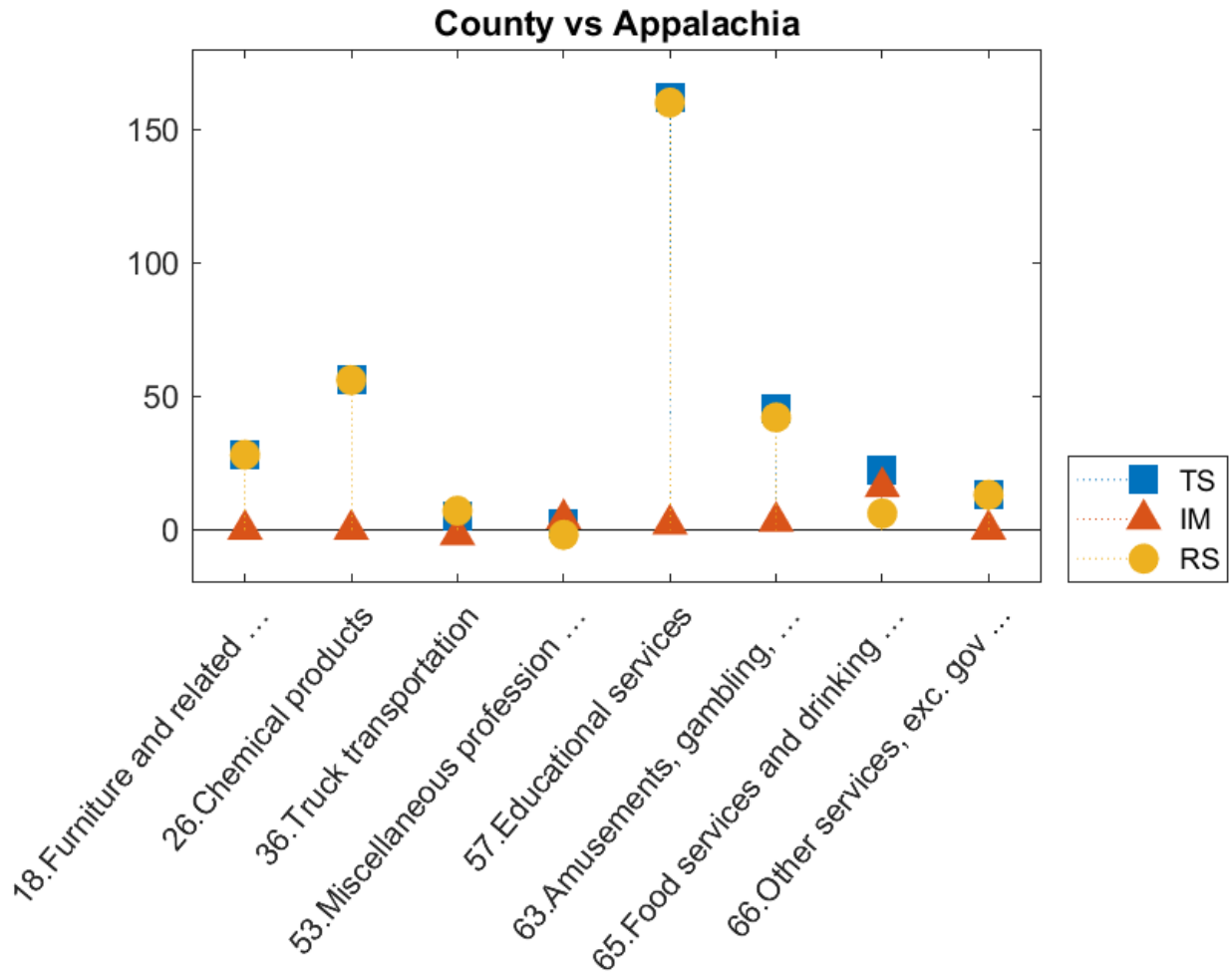


Chapter 9. Clay County, Tennessee

Clay County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|----|-----|--------------------|
| 18 | Furniture and related ... | 0 | 28 | 0 | 28 | 28 |
| 26 | Chemical products | 0 | 56 | 0 | 56 | 56 |
| 36 | Truck transportation | 3 | 3 | -1 | 4 | 30 |
| 53 | Miscellaneous profession ... | 4 | -1 | 6 | -7 | 35 |
| 57 | Educational services | 11 | 151 | -2 | 153 | 258 |
| 63 | Amusements, gambling, ... | 2 | 43 | 2 | 41 | 67 |
| 65 | Food services and drinking ... | 9 | 14 | 16 | -2 | 104 |
| 66 | Other services, exc. gov ... | 1 | 12 | -1 | 13 | 24 |

Selected SSA Components for Clay County, Tennessee vs the Appalachian Region

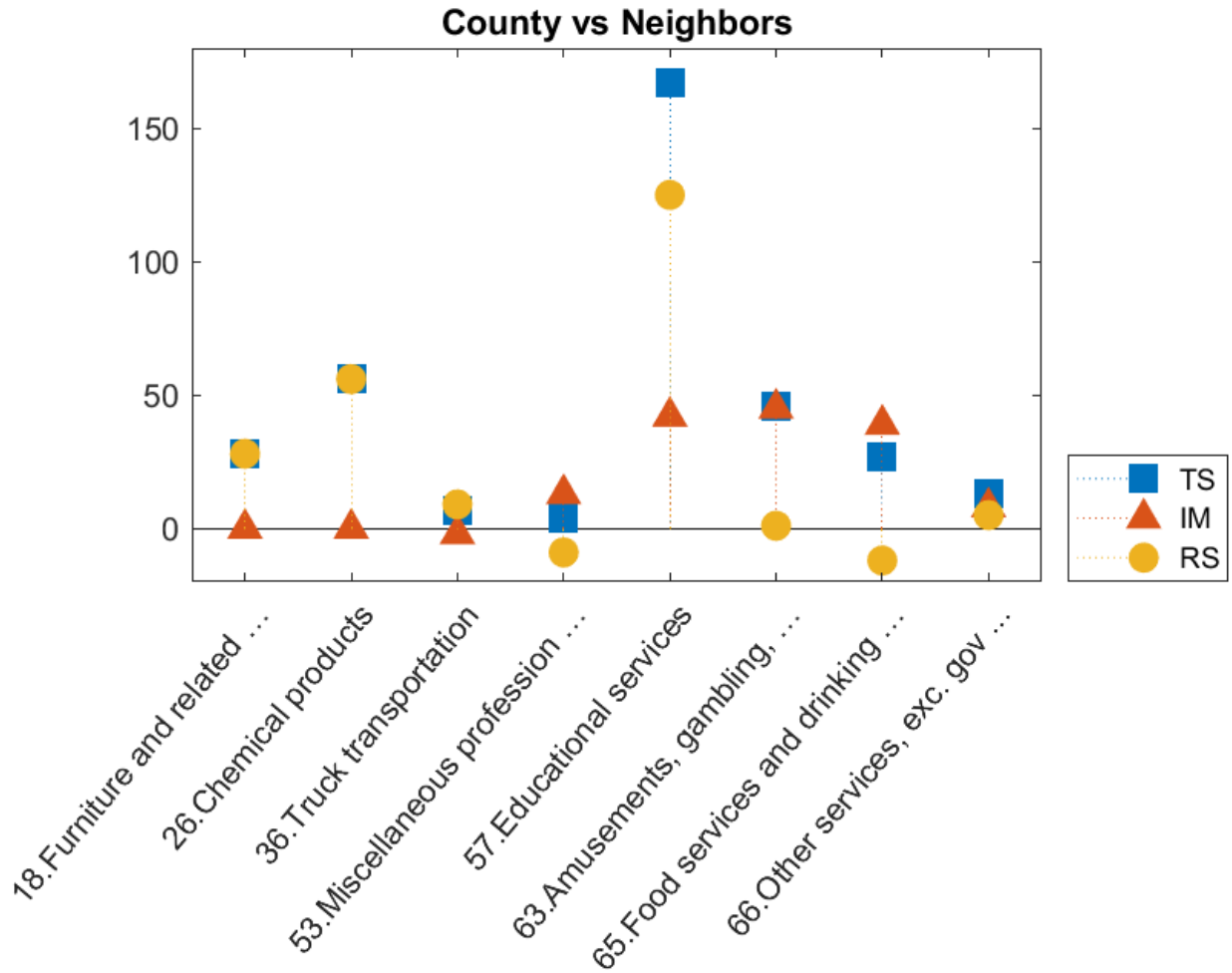


Chapter 9. Clay County, Tennessee

Selected SSA Components for Clay County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|----|-----|--------------------|
| 18 | Furniture and related ... | 0 | 28 | 0 | 28 | 28 |
| 26 | Chemical products | 0 | 56 | 0 | 56 | 56 |
| 36 | Truck transportation | 0 | 5 | -2 | 7 | 30 |
| 53 | Miscellaneous profession ... | 0 | 2 | 4 | -2 | 35 |
| 57 | Educational services | 0 | 162 | 2 | 160 | 258 |
| 63 | Amusements, gambling, ... | 0 | 45 | 3 | 42 | 67 |
| 65 | Food services and drinking ... | 0 | 22 | 16 | 6 | 104 |
| 66 | Other services, exc. gov ... | 0 | 13 | -0 | 13 | 24 |

Selected SSA Components for Clay County, Tennessee vs Neighbors



Chapter 9. Clay County, Tennessee

Selected SSA Components for Clay County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|----|-----|--------------------|
| 18 | Furniture and related ... | -0 | 28 | 0 | 28 | 28 |
| 26 | Chemical products | -0 | 56 | 0 | 56 | 56 |
| 36 | Truck transportation | -1 | 7 | -2 | 9 | 30 |
| 53 | Miscellaneous profession ... | -1 | 4 | 13 | -9 | 35 |
| 57 | Educational services | -4 | 167 | 42 | 125 | 258 |
| 63 | Amusements, gambling, ... | -1 | 46 | 45 | 1 | 67 |
| 65 | Food services and drinking ... | -4 | 27 | 39 | -12 | 104 |
| 66 | Other services, exc. gov ... | -0 | 13 | 8 | 5 | 24 |

Chapter 10. Cocke County, Tennessee

Employment in Cocke County, Tennessee, declined from 8,557 in 2005 to 7,742 in 2018, for a change of -815, or -9.52%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Cocke County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|--------|------|--------|
| vs. U.S. | 965 | -1,779 | -288 | -1,491 |
| vs. Appalachia | 24 | -845 | -94 | -751 |
| vs. Neighbors | 46 | -867 | -49 | -818 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Cocke County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 10. Cocke County, Tennessee

Industry Group Membership for Cocke County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 07 | Utilities | F III c iii | no | yes | yes | yes |
| 09 | Wood products | F III c iii | no | yes | yes | yes |
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 26 | Chemical products | F III c iii | no | yes | yes | yes |
| 32 | Other retail | F III c iii | no | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B V b ii | yes | no | yes | yes |
| 63 | Amusements, gambling, ... | B I a i | yes | yes | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a ii | yes | yes | yes | yes |
| 68 | Government | F III a ii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Cocke County, Tennessee vs. the United States

Groups a, b, and c are from Cocke County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Cocke County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Cocke County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Cocke County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Cocke County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Cocke County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

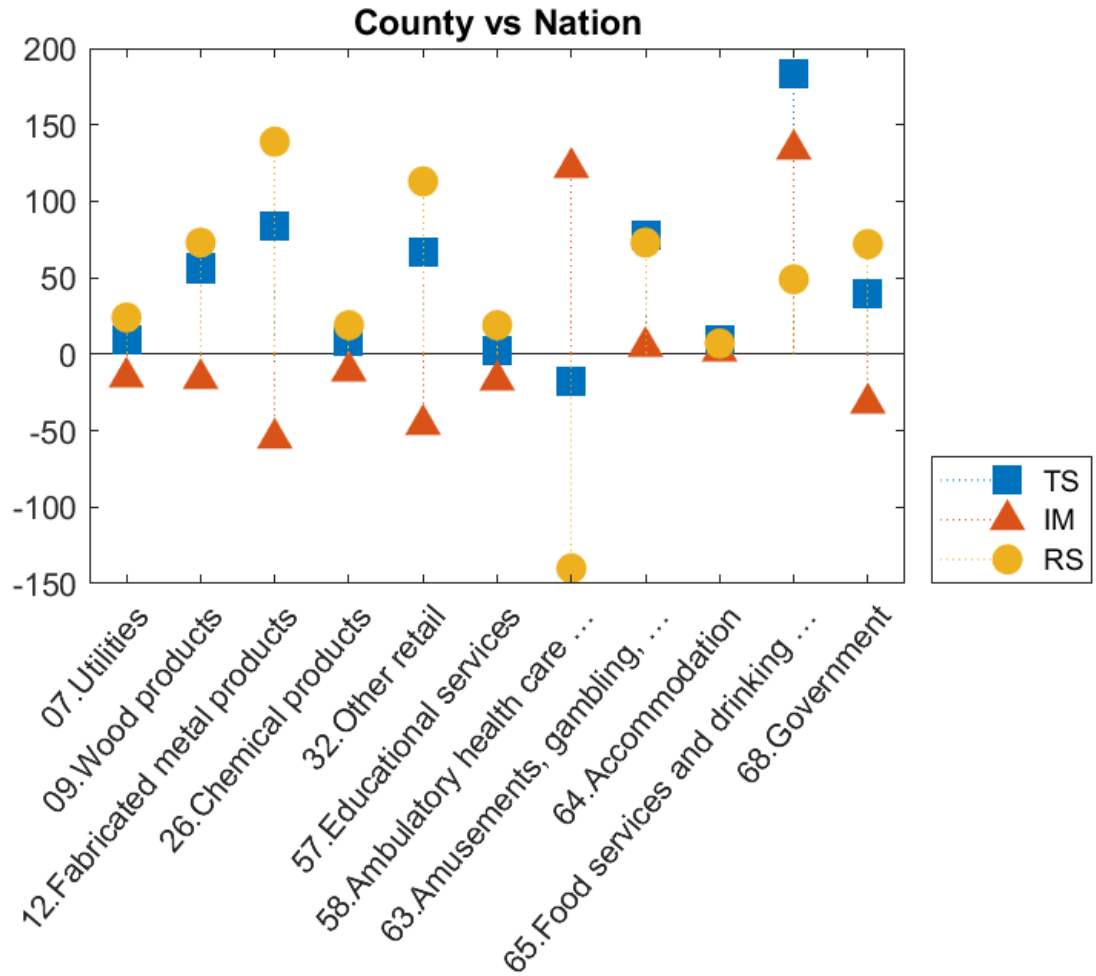
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Cocke County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Cocke County, Tennessee vs the U.S.

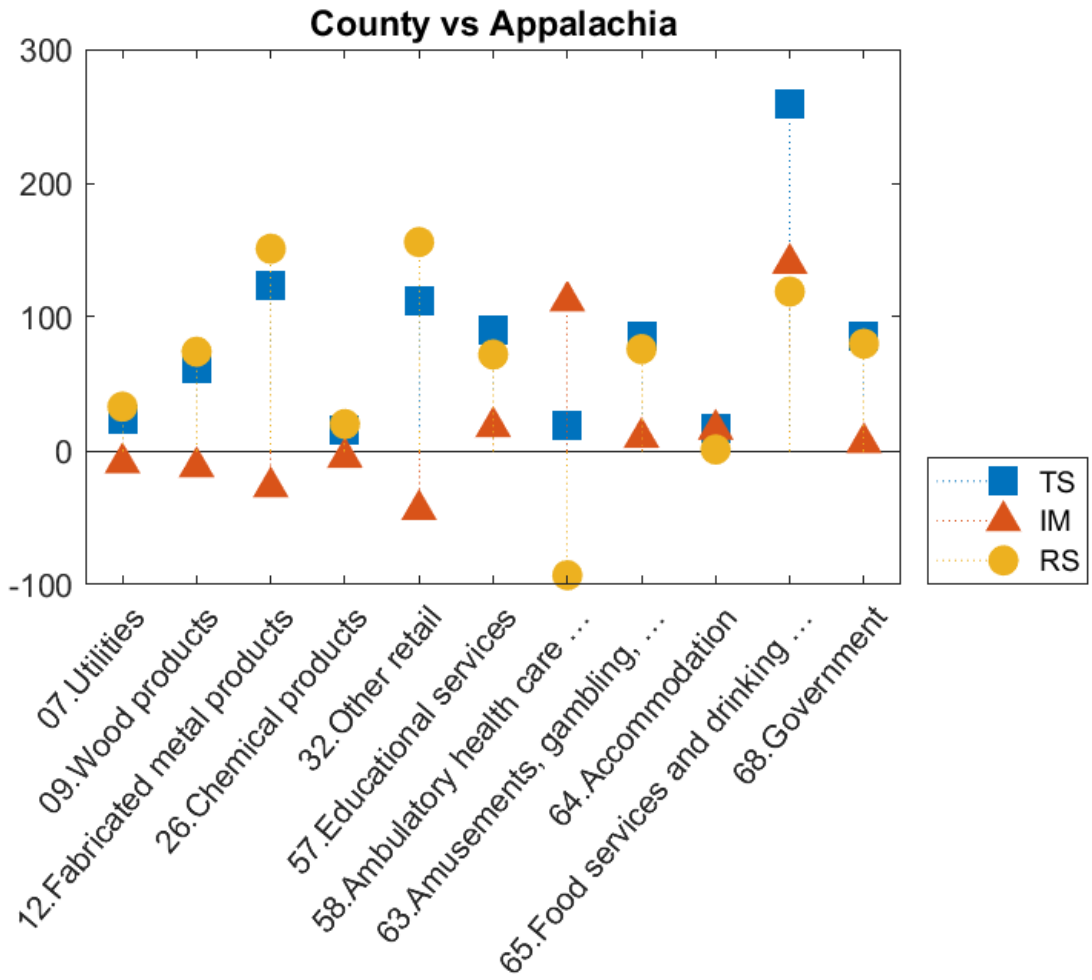


Chapter 10. Cocke County, Tennessee

Cocke County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|-----|-----|------|--------------------|
| 07 | Utilities | 16 | 9 | -15 | 24 | 168 |
| 09 | Wood products | 5 | 57 | -16 | 73 | 102 |
| 12 | Fabricated metal products | 42 | 84 | -55 | 139 | 498 |
| 26 | Chemical products | 8 | 8 | -11 | 19 | 86 |
| 32 | Other retail | 46 | 67 | -46 | 113 | 520 |
| 57 | Educational services | 91 | 2 | -17 | 19 | 897 |
| 58 | Ambulatory health care ... | 39 | -18 | 122 | -140 | 369 |
| 63 | Amusements, gambling, ... | 8 | 78 | 5 | 73 | 153 |
| 64 | Accommodation | 9 | 9 | 2 | 7 | 98 |
| 65 | Food services and drinking ... | 79 | 183 | 134 | 49 | 962 |
| 68 | Government | 47 | 40 | -32 | 72 | 505 |

Selected SSA Components for Cocke County, Tennessee vs the Appalachian Region

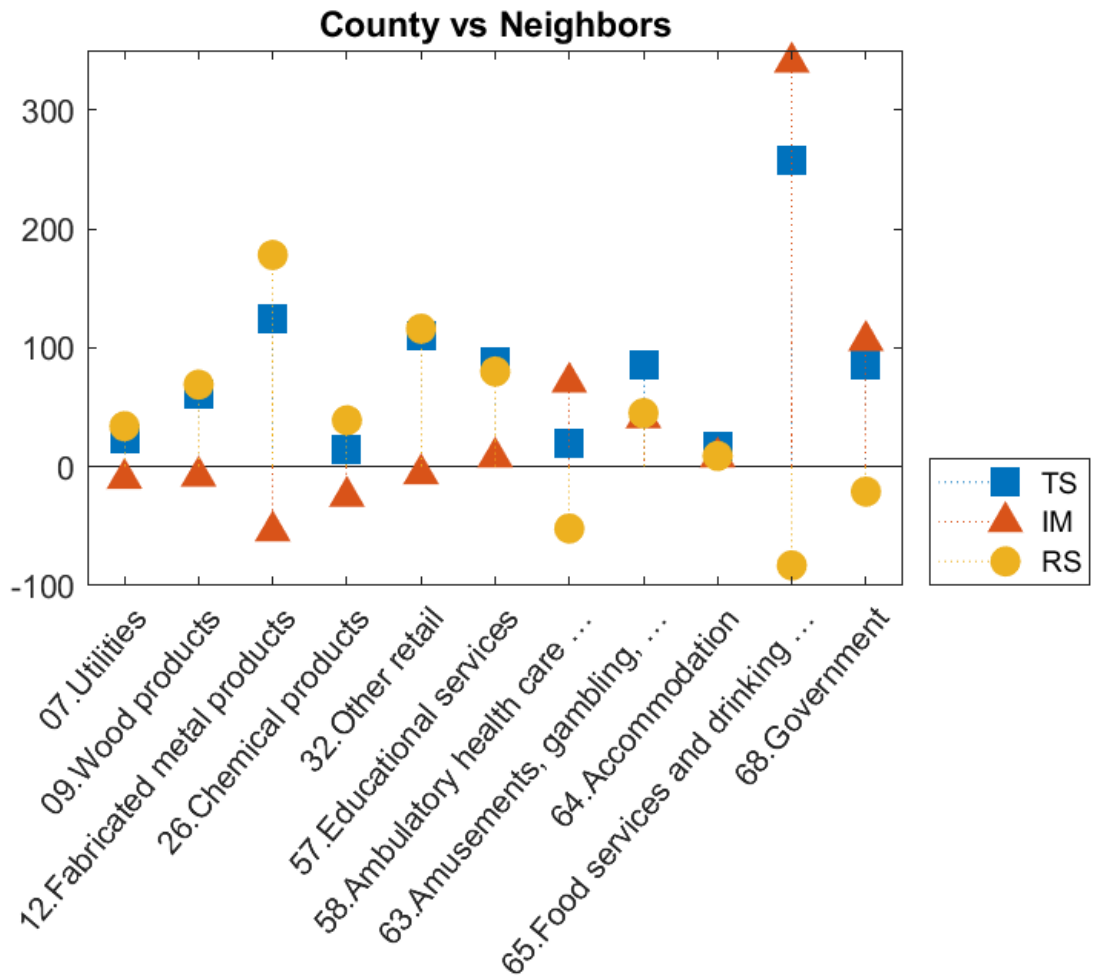


Chapter 10. Cocke County, Tennessee

Selected SSA Components for Cocke County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 07 | Utilities | 0 | 24 | -9 | 33 | 168 |
| 09 | Wood products | 0 | 62 | -12 | 74 | 102 |
| 12 | Fabricated metal products | 1 | 124 | -27 | 151 | 498 |
| 26 | Chemical products | 0 | 15 | -5 | 20 | 86 |
| 32 | Other retail | 1 | 112 | -44 | 156 | 520 |
| 57 | Educational services | 3 | 90 | 18 | 72 | 897 |
| 58 | Ambulatory health care ... | 1 | 19 | 112 | -93 | 369 |
| 63 | Amusements, gambling, ... | 0 | 86 | 10 | 76 | 153 |
| 64 | Accommodation | 0 | 17 | 16 | 1 | 98 |
| 65 | Food services and drinking ... | 2 | 259 | 140 | 119 | 962 |
| 68 | Government | 1 | 86 | 6 | 80 | 505 |

Selected SSA Components for Cocke County, Tennessee vs Neighbors



Chapter 10. Cocke County, Tennessee

Selected SSA Components for Cocke County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|-----|-----|-----|--------------------|
| 07 | Utilities | 1 | 24 | -10 | 34 | 168 |
| 09 | Wood products | 0 | 61 | -8 | 69 | 102 |
| 12 | Fabricated metal products | 2 | 124 | -54 | 178 | 498 |
| 26 | Chemical products | 0 | 14 | -25 | 39 | 86 |
| 32 | Other retail | 2 | 110 | -6 | 116 | 520 |
| 57 | Educational services | 5 | 88 | 8 | 80 | 897 |
| 58 | Ambulatory health care ... | 2 | 19 | 71 | -52 | 369 |
| 63 | Amusements, gambling, ... | 0 | 86 | 41 | 45 | 153 |
| 64 | Accommodation | 0 | 17 | 8 | 9 | 98 |
| 65 | Food services and drinking ... | 4 | 257 | 340 | -83 | 962 |
| 68 | Government | 2 | 85 | 106 | -21 | 505 |

Chapter 11. Coffee County, Tennessee

Employment in Coffee County, Tennessee, grew from 25,189 in 2005 to 26,581 in 2018, for a change of 1,392, or 5.53%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Coffee County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|------|--------|
| vs. U.S. | 2,840 | -1,451 | -338 | -1,113 |
| vs. Appalachia | 82 | 1,310 | 653 | 657 |
| vs. Neighbors | 4,960 | -3,570 | 477 | -4,047 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Coffee County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 11. Coffee County, Tennessee

Industry Group Membership for Coffee County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 16 | Motor vehicles, bodies ... | C III b v | yes | yes | yes | no |
| 20 | Food and beverage ... | E II c v | no | yes | yes | no |
| 27 | Plastics and rubber prod... | D III a iii | no | yes | yes | yes |
| 32 | Other retail | F III c i | no | yes | yes | yes |
| 36 | Truck transportation | F III c i | no | yes | yes | yes |
| 52 | Computer systems design ... | B I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B II b v | yes | yes | yes | no |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 65 | Food services and drinking ... | B I a ii | yes | yes | yes | yes |
| 68 | Government | F III a iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Coffee County, Tennessee vs. the United States

Groups a, b, and c are from Coffee County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Coffee County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Coffee County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Coffee County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Coffee County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Coffee County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

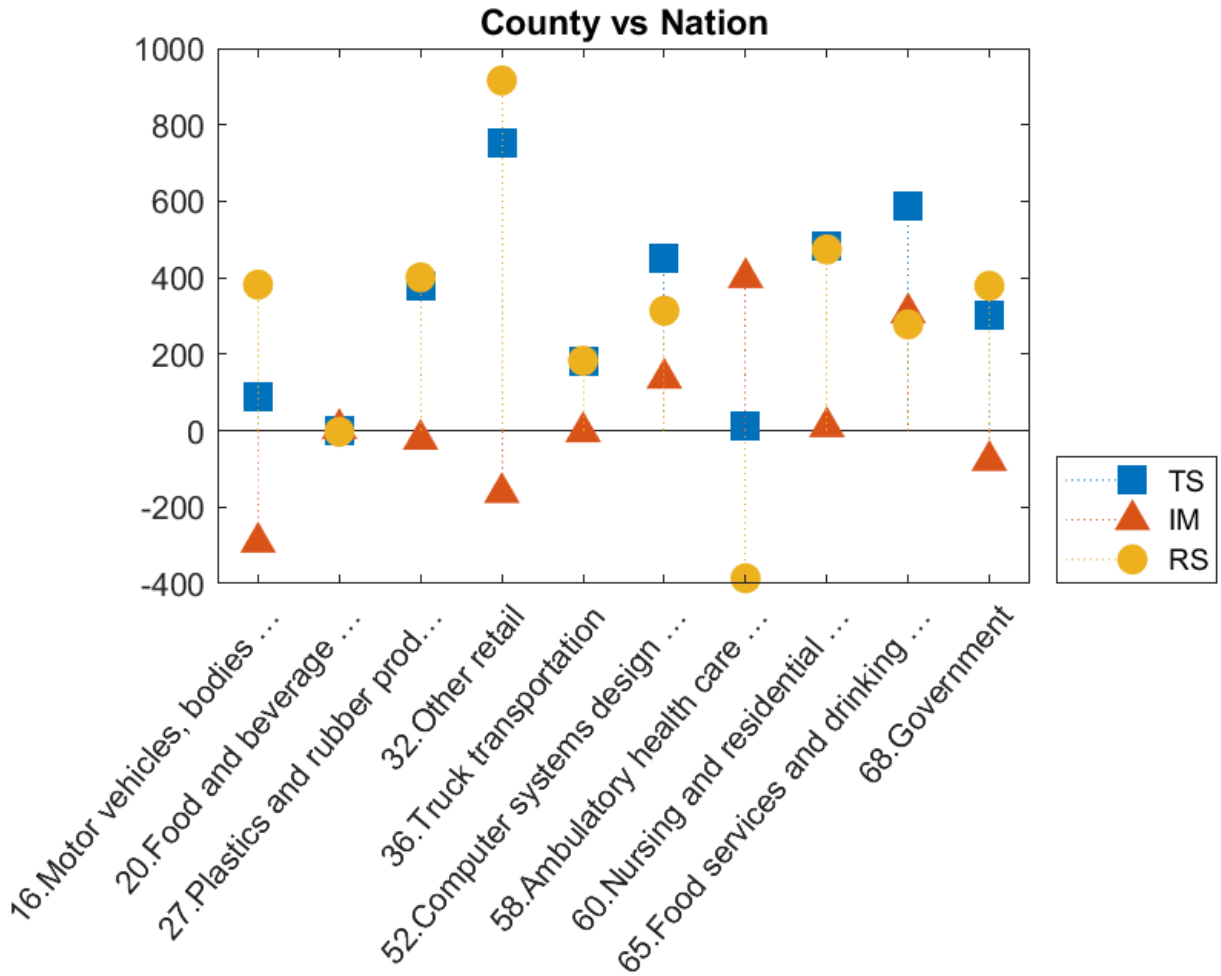
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Coffee County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Coffee County, Tennessee vs the U.S.

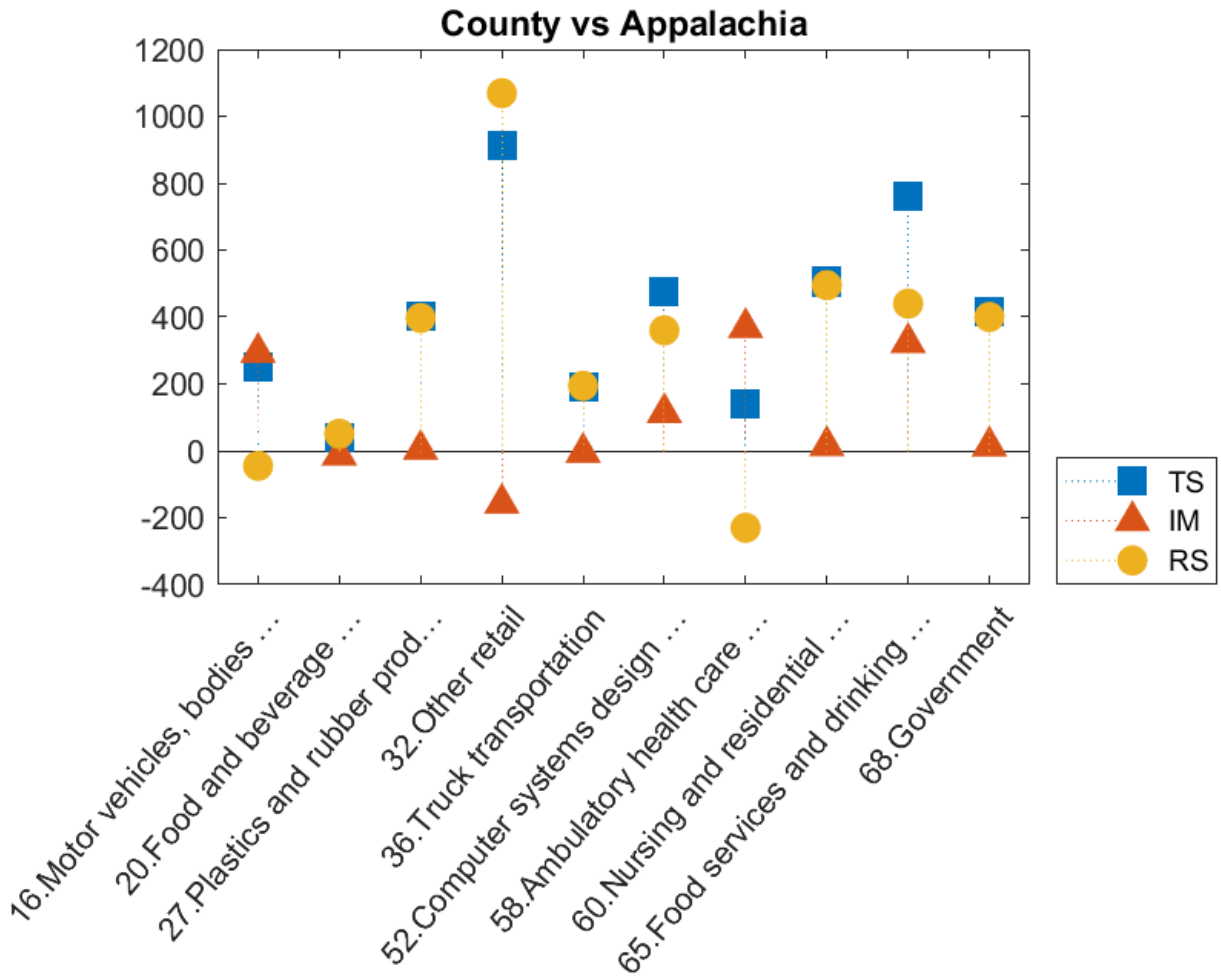


Chapter 11. Coffee County, Tennessee

Coffee County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|------|------|--------------------|
| 16 | Motor vehicles, bodies ... | 163 | 90 | -292 | 382 | 1,698 |
| 20 | Food and beverage ... | 37 | 2 | 5 | -3 | 369 |
| 27 | Plastics and rubber prod... | 23 | 378 | -23 | 401 | 607 |
| 32 | Other retail | 163 | 754 | -162 | 916 | 2,358 |
| 36 | Truck transportation | 9 | 180 | -3 | 183 | 273 |
| 52 | Computer systems design ... | 23 | 451 | 137 | 314 | 682 |
| 58 | Ambulatory health care ... | 129 | 14 | 400 | -386 | 1,282 |
| 60 | Nursing and residential ... | 27 | 484 | 10 | 474 | 747 |
| 65 | Food services and drinking ... | 182 | 586 | 308 | 278 | 2,383 |
| 68 | Government | 116 | 301 | -78 | 379 | 1,443 |

Selected SSA Components for Coffee County, Tennessee vs the Appalachian Region

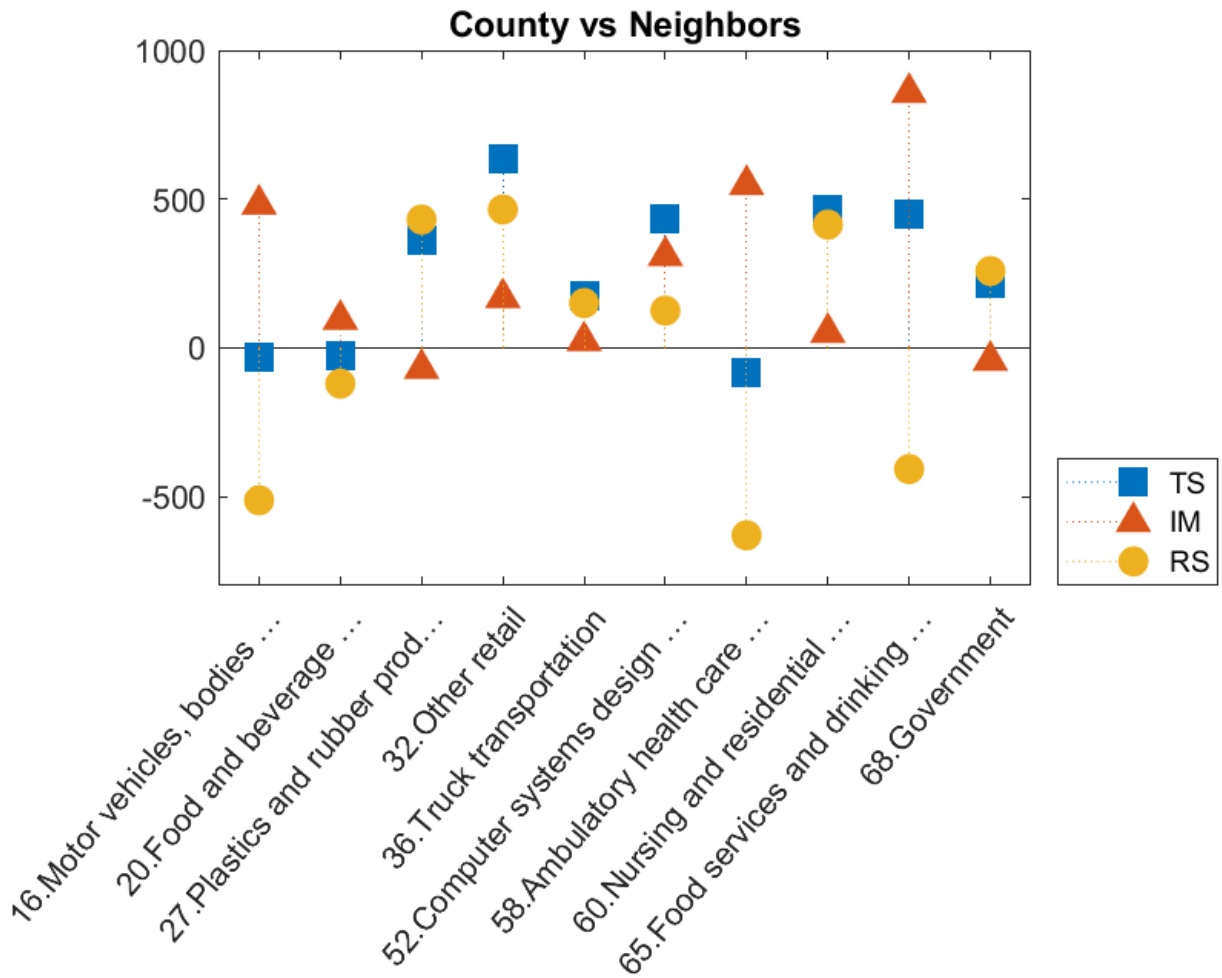


Chapter 11. Coffee County, Tennessee

Selected SSA Components for Coffee County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|------|-------|--------------------|
| 16 | Motor vehicles, bodies ... | 5 | 249 | 294 | -45 | 1,698 |
| 20 | Food and beverage ... | 1 | 38 | -13 | 51 | 369 |
| 27 | Plastics and rubber prod... | 1 | 401 | 4 | 397 | 607 |
| 32 | Other retail | 5 | 912 | -157 | 1,069 | 2,358 |
| 36 | Truck transportation | 0 | 189 | -5 | 194 | 273 |
| 52 | Computer systems design ... | 1 | 474 | 114 | 360 | 682 |
| 58 | Ambulatory health care ... | 4 | 138 | 368 | -230 | 1,282 |
| 60 | Nursing and residential ... | 1 | 510 | 15 | 495 | 747 |
| 65 | Food services and drinking ... | 5 | 763 | 323 | 440 | 2,383 |
| 68 | Government | 3 | 414 | 14 | 400 | 1,443 |

Selected SSA Components for Coffee County, Tennessee vs Neighbors



Chapter 11. Coffee County, Tennessee

Selected SSA Components for Coffee County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|-----|------|--------------------|
| 16 | Motor vehicles, bodies ... | 284 | -31 | 482 | -513 | 1,698 |
| 20 | Food and beverage ... | 65 | -26 | 95 | -121 | 369 |
| 27 | Plastics and rubber prod... | 40 | 361 | -70 | 431 | 607 |
| 32 | Other retail | 284 | 633 | 168 | 465 | 2,358 |
| 36 | Truck transportation | 17 | 173 | 23 | 150 | 273 |
| 52 | Computer systems design ... | 41 | 434 | 309 | 125 | 682 |
| 58 | Ambulatory health care ... | 225 | -83 | 548 | -631 | 1,282 |
| 60 | Nursing and residential ... | 46 | 465 | 51 | 414 | 747 |
| 65 | Food services and drinking ... | 318 | 450 | 858 | -408 | 2,383 |
| 68 | Government | 202 | 215 | -43 | 258 | 1,443 |

Chapter 12. Cumberland County, Tennessee

Employment in Cumberland County, Tennessee, grew from 16,900 in 2005 to 17,850 in 2018, for a change of 950, or 5.62%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Cumberland County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 1,909 | -950 | 492 | -1,442 |
| vs. Appalachia | 50 | 898 | 191 | 707 |
| vs. Neighbors | 167 | 781 | -436 | 1,217 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Cumberland County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 12. Cumberland County, Tennessee

Industry Group Membership for Cumberland County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 01 | Farms | F III a ii | no | yes | yes | yes |
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 36 | Truck transportation | F III c iii | no | yes | yes | yes |
| 39 | Other transportation ... | E I c i | no | yes | yes | yes |
| 49 | Real estate | F I a i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B V b ii | yes | no | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II b ii | yes | yes | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B V b ii | yes | no | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Cumberland County, Tennessee vs. the United States

Groups a, b, and c are from Cumberland County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Cumberland County, Tennessee vs. its neighbors

Chapter 12. Cumberland County, Tennessee

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Cumberland County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Cumberland County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Cumberland County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Cumberland County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

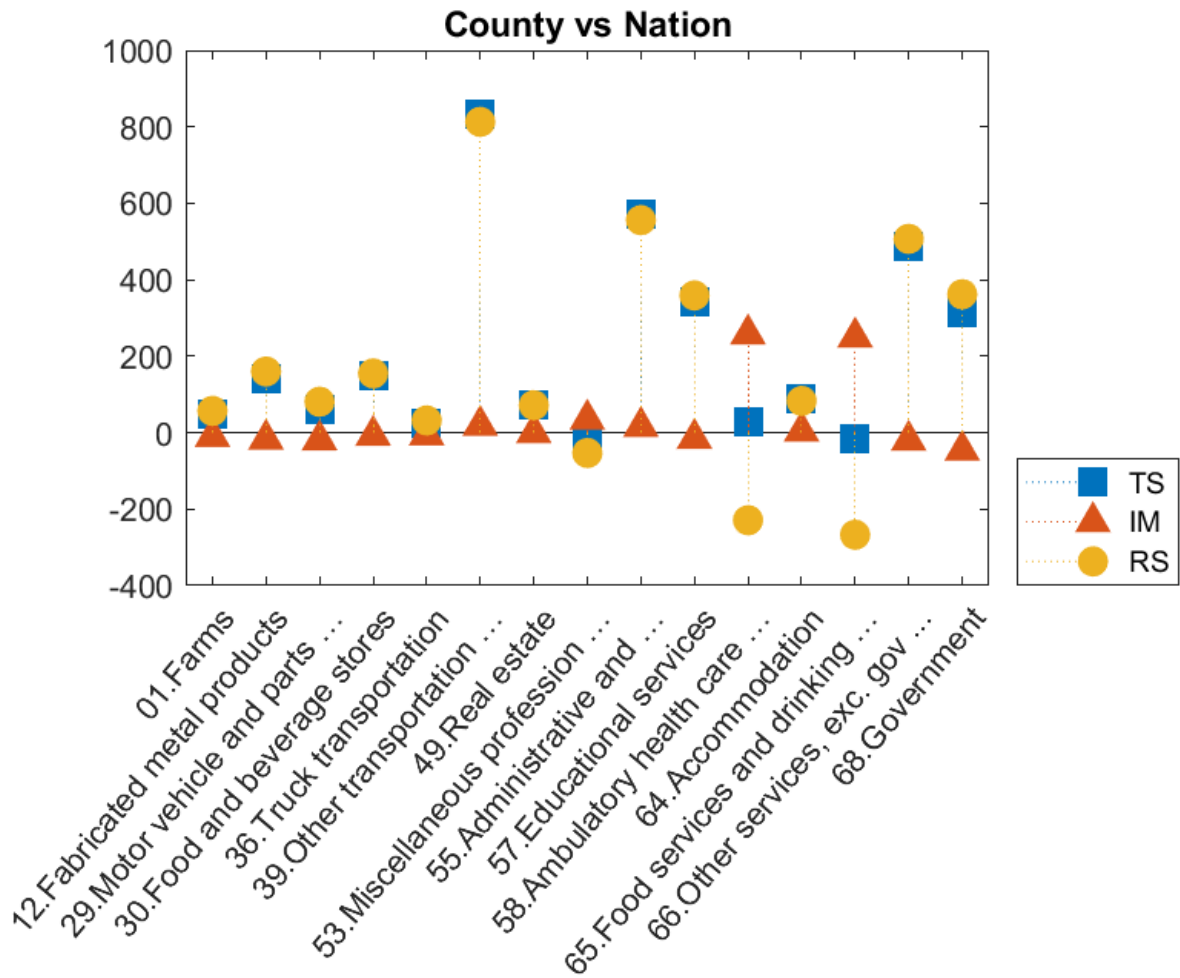
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Cumberland County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Cumberland County, Tennessee vs the U.S.

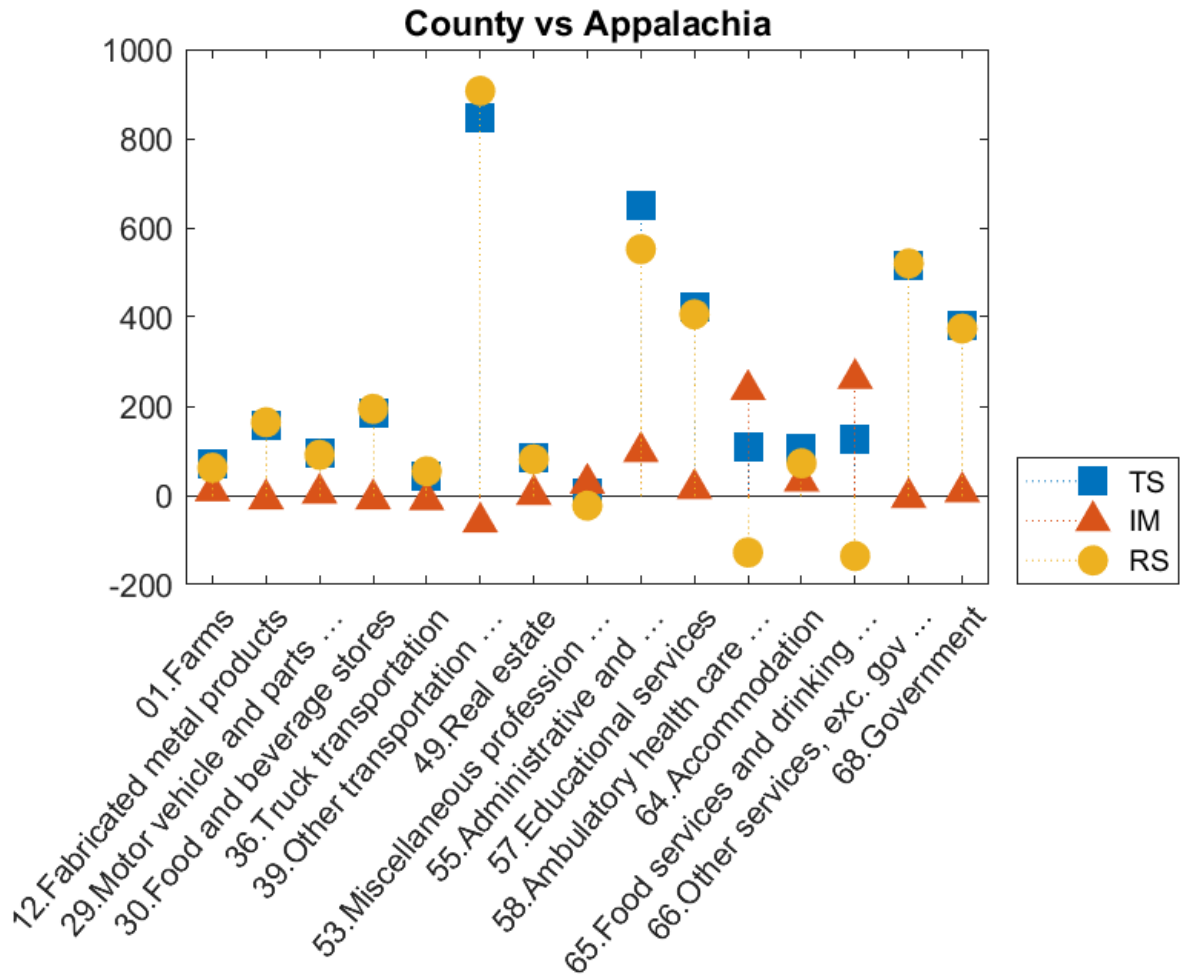


Chapter 12. Cumberland County, Tennessee

Cumberland County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|-----|-----|-----|------|--------------------|
| 01 | Farms | 26 | 47 | -10 | 57 | 304 |
| 12 | Fabricated metal products | 13 | 143 | -17 | 160 | 274 |
| 29 | Motor vehicle and parts ... | 35 | 62 | -19 | 81 | 408 |
| 30 | Food and beverage stores | 41 | 148 | -7 | 155 | 549 |
| 36 | Truck transportation | 18 | 26 | -6 | 32 | 203 |
| 39 | Other transportation ... | 16 | 832 | 19 | 813 | 986 |
| 49 | Real estate | 12 | 72 | -0 | 72 | 187 |
| 53 | Miscellaneous profession ... | 23 | -18 | 35 | -53 | 211 |
| 55 | Administrative and ... | 81 | 572 | 16 | 556 | 1,369 |
| 57 | Educational services | 80 | 344 | -15 | 359 | 1,131 |
| 58 | Ambulatory health care ... | 83 | 29 | 258 | -229 | 847 |
| 64 | Accommodation | 18 | 87 | 4 | 83 | 261 |
| 65 | Food services and drinking ... | 148 | -17 | 250 | -267 | 1,440 |
| 66 | Other services, exc. gov ... | 29 | 487 | -20 | 507 | 777 |
| 68 | Government | 68 | 316 | -46 | 362 | 987 |

Selected SSA Components for Cumberland County, Tennessee vs the Appalachian Region

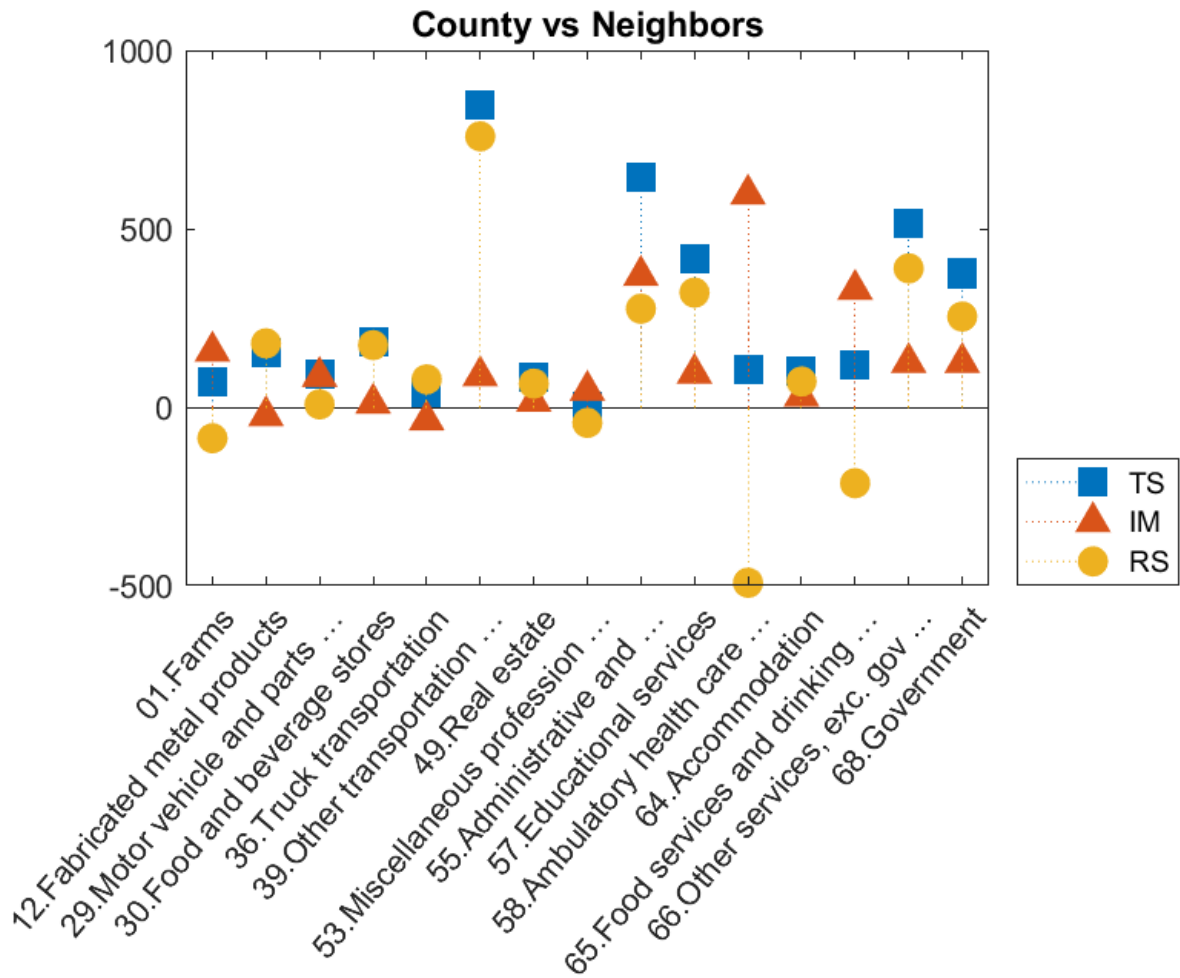


Chapter 12. Cumberland County, Tennessee

Selected SSA Components for Cumberland County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|-----|-----|------|--------------------|
| 01 | Farms | 1 | 72 | 10 | 62 | 304 |
| 12 | Fabricated metal products | 0 | 156 | -8 | 164 | 274 |
| 29 | Motor vehicle and parts ... | 1 | 96 | 5 | 91 | 408 |
| 30 | Food and beverage stores | 1 | 186 | -8 | 194 | 549 |
| 36 | Truck transportation | 1 | 44 | -10 | 54 | 203 |
| 39 | Other transportation ... | 0 | 847 | -60 | 907 | 986 |
| 49 | Real estate | 0 | 83 | 2 | 81 | 187 |
| 53 | Miscellaneous profession ... | 1 | 4 | 27 | -23 | 211 |
| 55 | Administrative and ... | 2 | 650 | 98 | 552 | 1,369 |
| 57 | Educational services | 2 | 421 | 15 | 406 | 1,131 |
| 58 | Ambulatory health care ... | 2 | 109 | 237 | -128 | 847 |
| 64 | Accommodation | 1 | 104 | 32 | 72 | 261 |
| 65 | Food services and drinking ... | 4 | 126 | 262 | -136 | 1,440 |
| 66 | Other services, exc. gov ... | 1 | 515 | -5 | 520 | 777 |
| 68 | Government | 2 | 382 | 8 | 374 | 987 |

Selected SSA Components for Cumberland County, Tennessee vs Neighbors



Chapter 12. Cumberland County, Tennessee

Selected SSA Components for Cumberland County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|------|--------------------|
| 01 | Farms | 2 | 70 | 157 | -87 | 304 |
| 12 | Fabricated metal products | 1 | 155 | -24 | 179 | 274 |
| 29 | Motor vehicle and parts ... | 3 | 94 | 86 | 8 | 408 |
| 30 | Food and beverage stores | 4 | 185 | 11 | 174 | 549 |
| 36 | Truck transportation | 2 | 42 | -36 | 78 | 203 |
| 39 | Other transportation ... | 1 | 847 | 88 | 759 | 986 |
| 49 | Real estate | 1 | 82 | 16 | 66 | 187 |
| 53 | Miscellaneous profession ... | 2 | 3 | 47 | -44 | 211 |
| 55 | Administrative and ... | 7 | 645 | 369 | 276 | 1,369 |
| 57 | Educational services | 7 | 416 | 95 | 321 | 1,131 |
| 58 | Ambulatory health care ... | 7 | 105 | 597 | -492 | 847 |
| 64 | Accommodation | 2 | 103 | 31 | 72 | 261 |
| 65 | Food services and drinking ... | 13 | 117 | 330 | -213 | 1,440 |
| 66 | Other services, exc. gov ... | 3 | 514 | 125 | 389 | 777 |
| 68 | Government | 6 | 379 | 125 | 254 | 987 |

Chapter 13. DeKalb County, Tennessee

Employment in DeKalb County, Tennessee, declined from 6,267 in 2005 to 5,790 in 2018, for a change of -477, or -7.61%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for DeKalb County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 704 | -1,179 | -417 | -762 |
| vs. Appalachia | 14 | -498 | 266 | -764 |
| vs. Neighbors | 624 | -1,099 | -104 | -995 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to DeKalb County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 13. DeKalb County, Tennessee

Industry Group Membership for DeKalb County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 13 | Machinery | F III c iii | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 20 | Food and beverage ... | E I c iii | no | yes | yes | yes |
| 31 | General merchandise ... | F III c i | no | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II b ii | yes | yes | yes | yes |
| 63 | Amusements, gambling, ... | B V b v | yes | no | yes | no |
| 64 | Accommodation | A I a ii | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B V b v | yes | no | yes | no |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from DeKalb County, Tennessee vs. the United States

Groups a, b, and c are from DeKalb County, Tennessee vs. Appalachia

Groups i, ii, and iii are from DeKalb County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing DeKalb County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by DeKalb County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in DeKalb County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that DeKalb County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

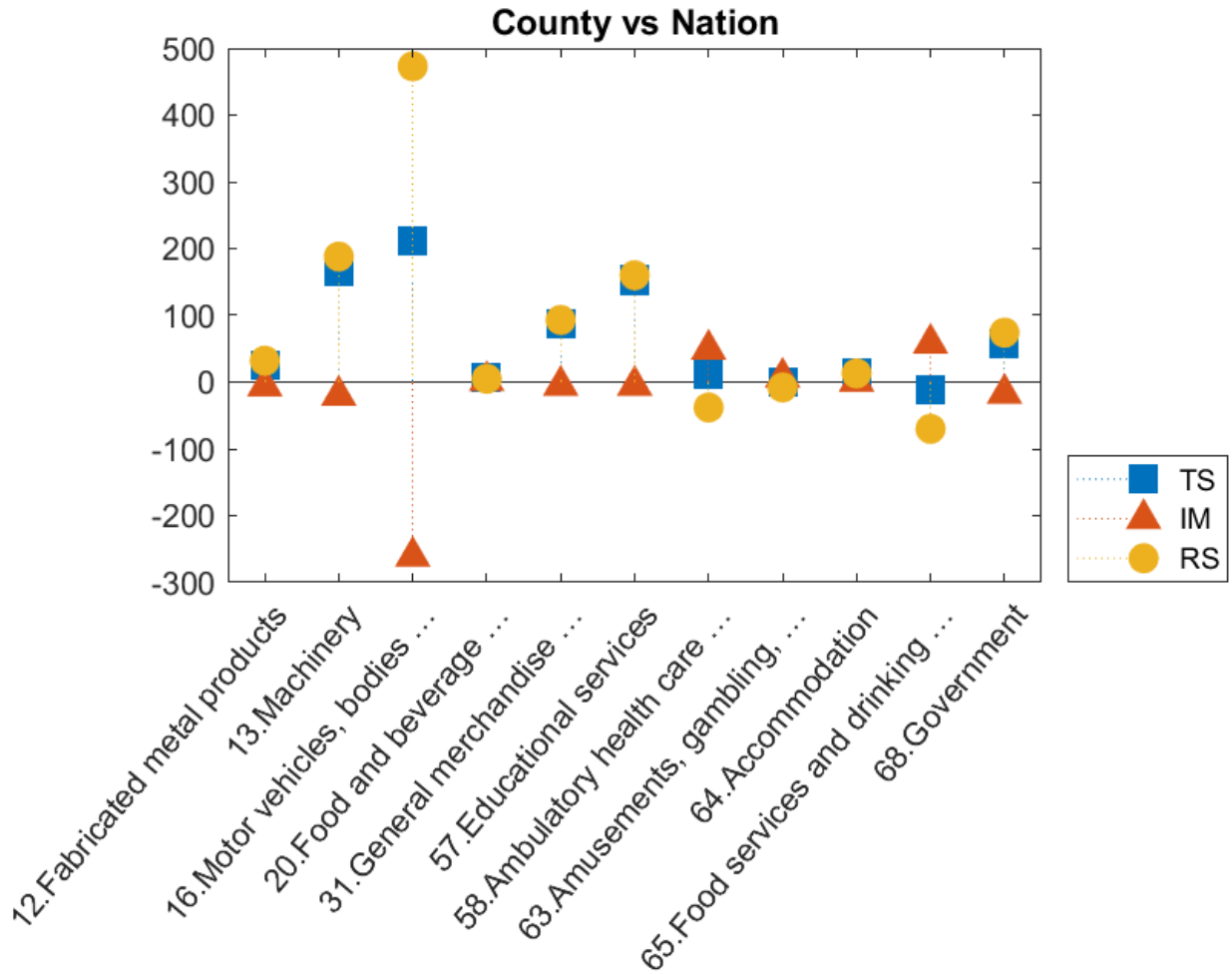
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in DeKalb County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for DeKalb County, Tennessee vs the U.S.

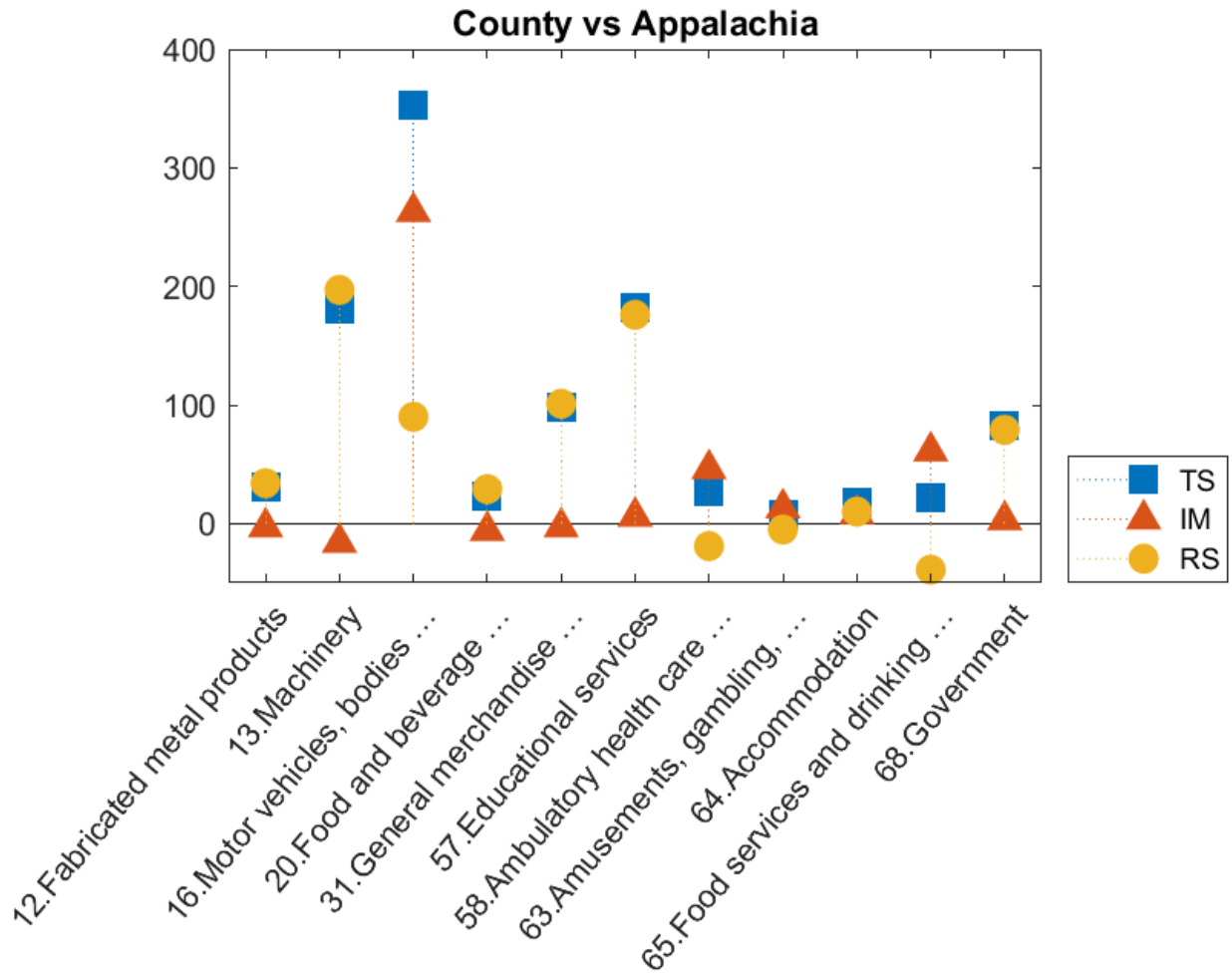


Chapter 13. DeKalb County, Tennessee

DeKalb County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|------|-----|--------------------|
| 12 | Fabricated metal products | 5 | 26 | -6 | 32 | 74 |
| 13 | Machinery | 14 | 168 | -20 | 188 | 304 |
| 16 | Motor vehicles, bodies ... | 146 | 212 | -261 | 473 | 1,651 |
| 20 | Food and beverage ... | 16 | 7 | 2 | 5 | 168 |
| 31 | General merchandise ... | 10 | 88 | -5 | 93 | 187 |
| 57 | Educational services | 29 | 155 | -5 | 160 | 437 |
| 58 | Ambulatory health care ... | 16 | 11 | 49 | -38 | 168 |
| 63 | Amusements, gambling, ... | 9 | -1 | 7 | -8 | 92 |
| 64 | Accommodation | 5 | 14 | 1 | 13 | 58 |
| 65 | Food services and drinking ... | 34 | -12 | 58 | -70 | 328 |
| 68 | Government | 25 | 57 | -17 | 74 | 300 |

Selected SSA Components for DeKalb County, Tennessee vs the Appalachian Region

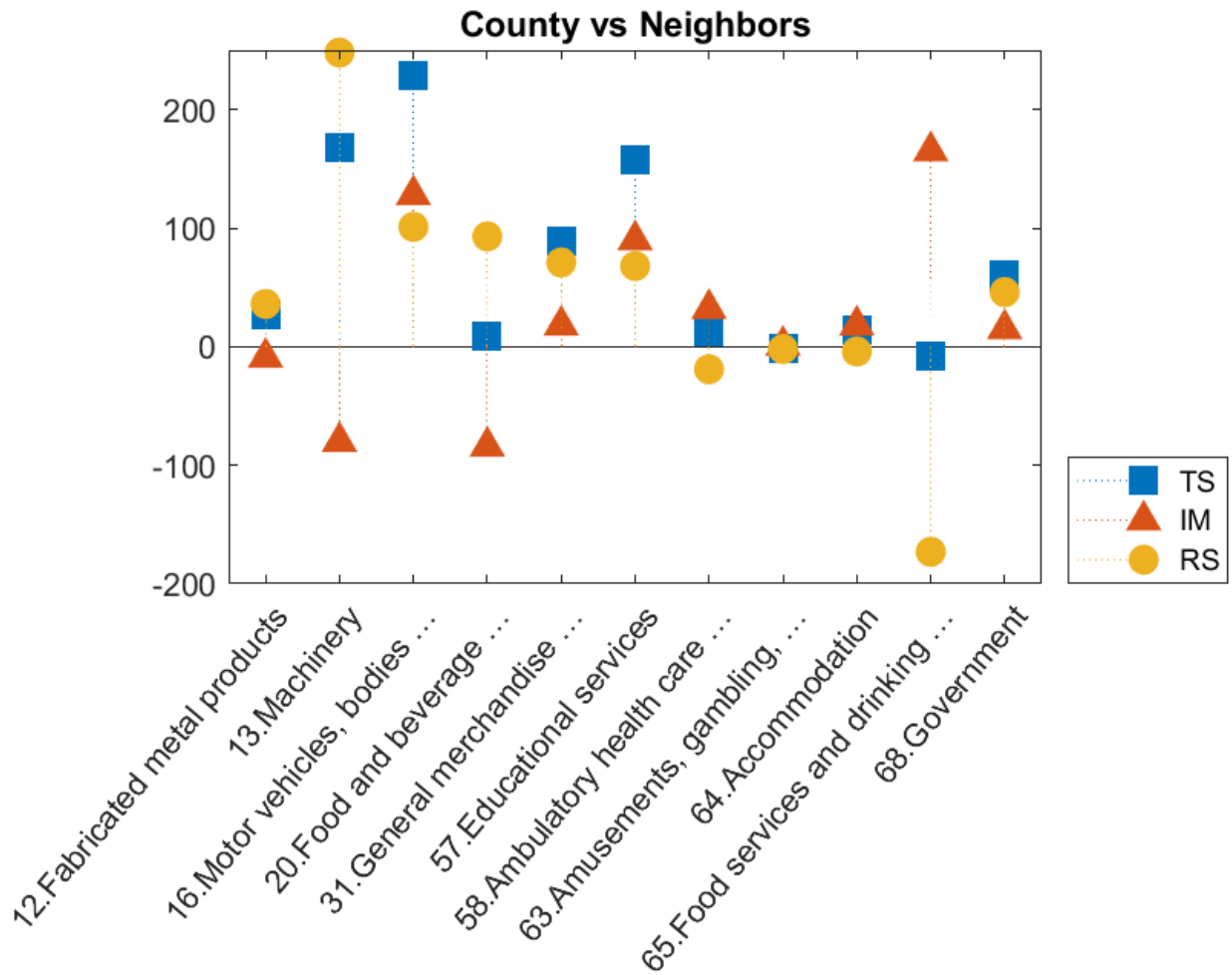


Chapter 13. DeKalb County, Tennessee

Selected SSA Components for DeKalb County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 12 | Fabricated metal products | 0 | 31 | -3 | 34 | 74 |
| 13 | Machinery | 0 | 181 | -16 | 197 | 304 |
| 16 | Motor vehicles, bodies ... | 4 | 353 | 263 | 90 | 1,651 |
| 20 | Food and beverage ... | 0 | 23 | -6 | 29 | 168 |
| 31 | General merchandise ... | 0 | 98 | -3 | 101 | 187 |
| 57 | Educational services | 1 | 182 | 6 | 176 | 437 |
| 58 | Ambulatory health care ... | 0 | 27 | 46 | -19 | 168 |
| 63 | Amusements, gambling, ... | 0 | 8 | 13 | -5 | 92 |
| 64 | Accommodation | 0 | 18 | 8 | 10 | 58 |
| 65 | Food services and drinking ... | 1 | 22 | 61 | -39 | 328 |
| 68 | Government | 1 | 82 | 3 | 79 | 300 |

Selected SSA Components for DeKalb County, Tennessee vs Neighbors



Chapter 13. DeKalb County, Tennessee

Selected SSA Components for DeKalb County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|-----|------|--------------------|
| 12 | Fabricated metal products | 4 | 27 | -9 | 36 | 74 |
| 13 | Machinery | 12 | 168 | -80 | 248 | 304 |
| 16 | Motor vehicles, bodies ... | 129 | 229 | 128 | 101 | 1,651 |
| 20 | Food and beverage ... | 14 | 9 | -84 | 93 | 168 |
| 31 | General merchandise ... | 9 | 89 | 18 | 71 | 187 |
| 57 | Educational services | 25 | 158 | 90 | 68 | 437 |
| 58 | Ambulatory health care ... | 14 | 13 | 32 | -19 | 168 |
| 63 | Amusements, gambling, ... | 8 | -1 | 1 | -2 | 92 |
| 64 | Accommodation | 4 | 14 | 18 | -4 | 58 |
| 65 | Food services and drinking ... | 31 | -8 | 165 | -173 | 328 |
| 68 | Government | 22 | 61 | 15 | 46 | 300 |

Chapter 14. Fentress County, Tennessee

Employment in Fentress County, Tennessee, declined from 5,815 in 2005 to 4,892 in 2018, for a change of -923, or -15.87%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Fentress County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|--------|-----|--------|
| vs. U.S. | 655 | -1,576 | -17 | -1,559 |
| vs. Appalachia | 18 | -943 | -29 | -914 |
| vs. Neighbors | 236 | -1,156 | -6 | -1,150 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Fentress County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 14. Fentress County, Tennessee

Industry Group Membership for Fentress County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 31 | General merchandise ... | F III c iii | no | yes | yes | yes |
| 37 | Transit and ground ... | E I c iii | no | yes | yes | yes |
| 54 | Management of companies ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Fentress County, Tennessee vs. the United States

Groups a, b, and c are from Fentress County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Fentress County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Fentress County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Fentress County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Fentress County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Fentress County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

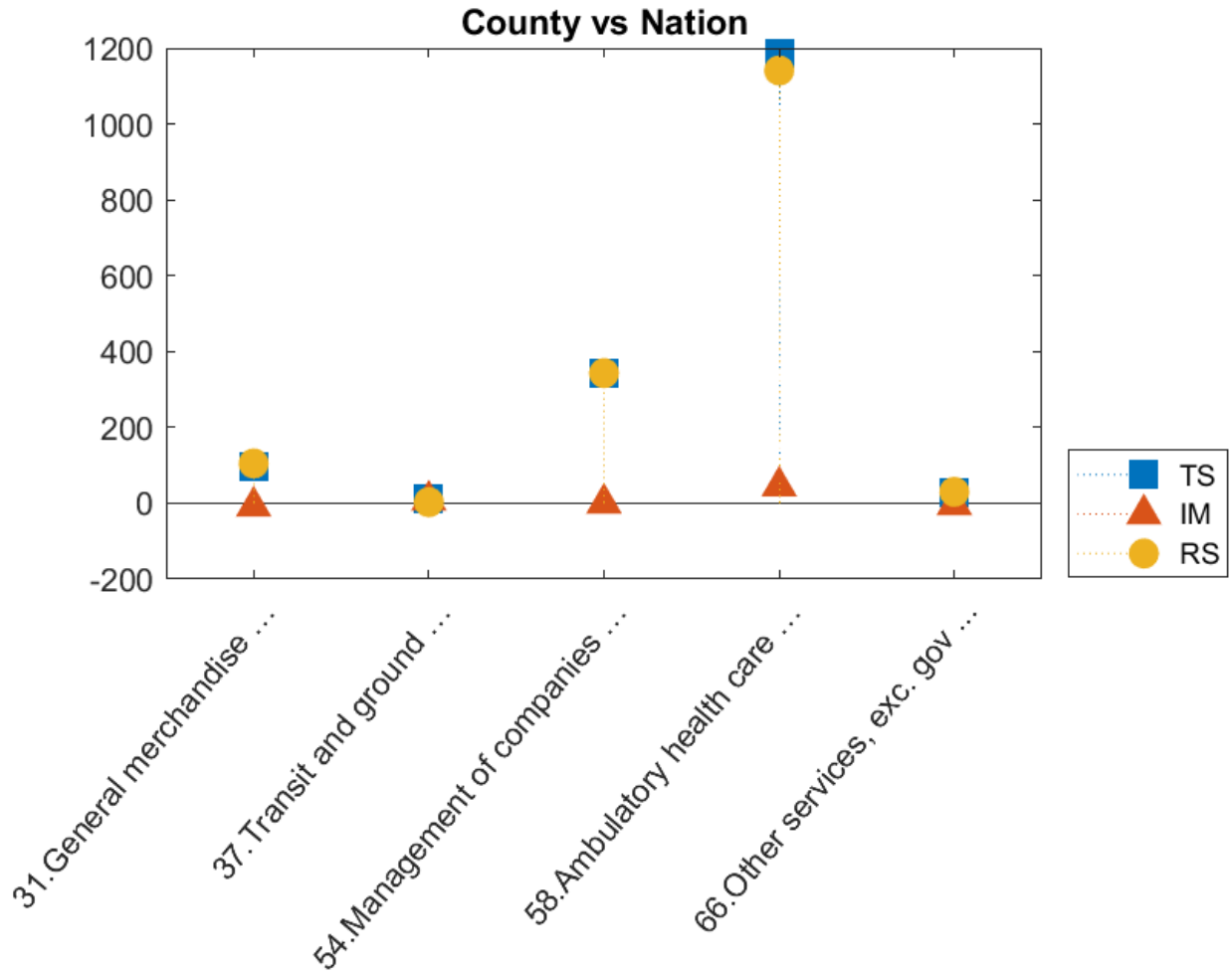
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Fentress County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Fentress County, Tennessee vs the U.S.

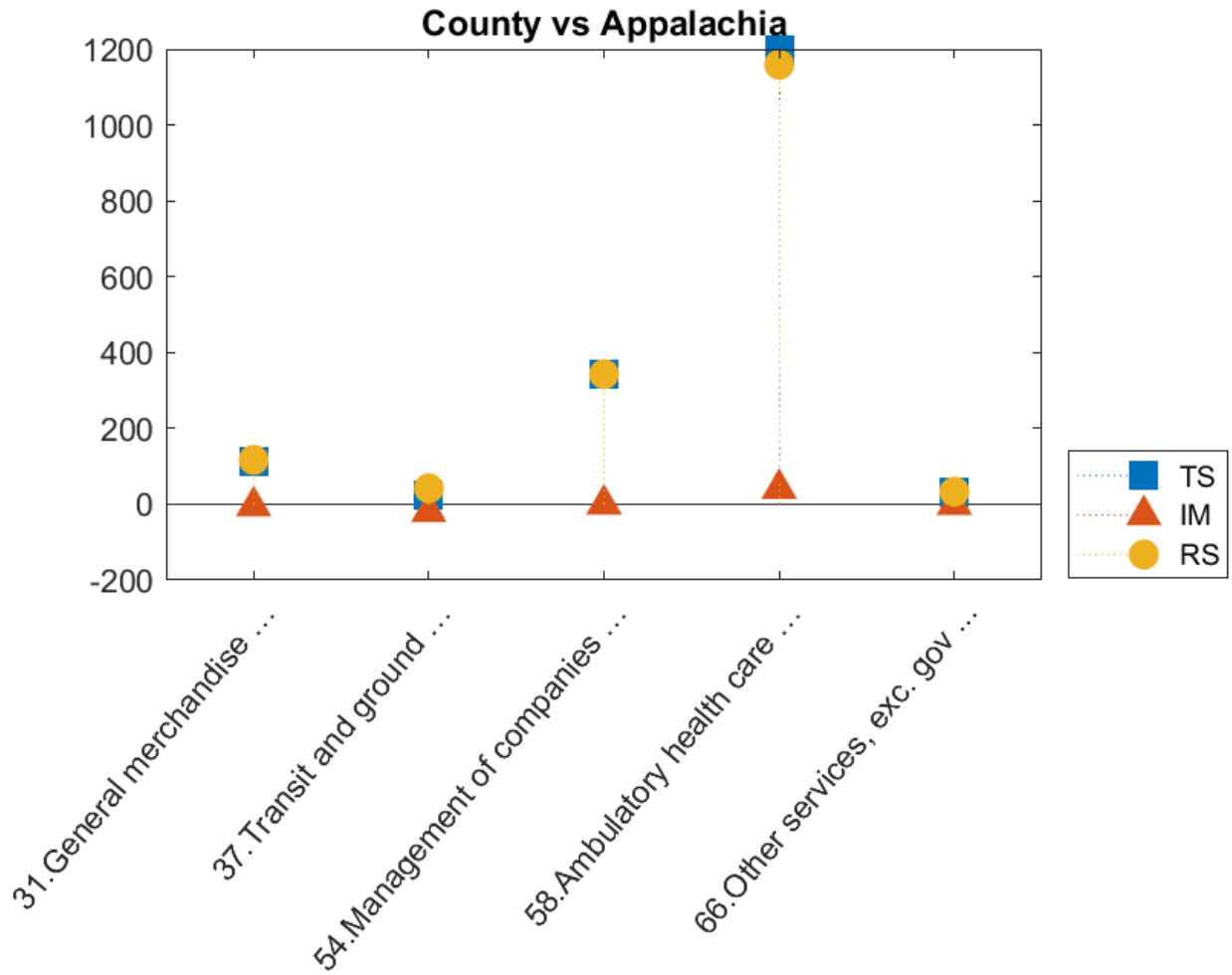


Chapter 14. Fentress County, Tennessee

Fentress County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------------|----|-------|----|-------|--------------------|
| 31 | General merchandise ... | 16 | 97 | -8 | 105 | 253 |
| 37 | Transit and ground ... | 11 | 11 | 8 | 3 | 117 |
| 54 | Management of companies ... | 0 | 343 | 0 | 343 | 343 |
| 58 | Ambulatory health care ... | 14 | 1,186 | 45 | 1,141 | 1,327 |
| 66 | Other services, exc. gov ... | 6 | 26 | -4 | 30 | 81 |

Selected SSA Components for Fentress County, Tennessee vs the Appalachian Region

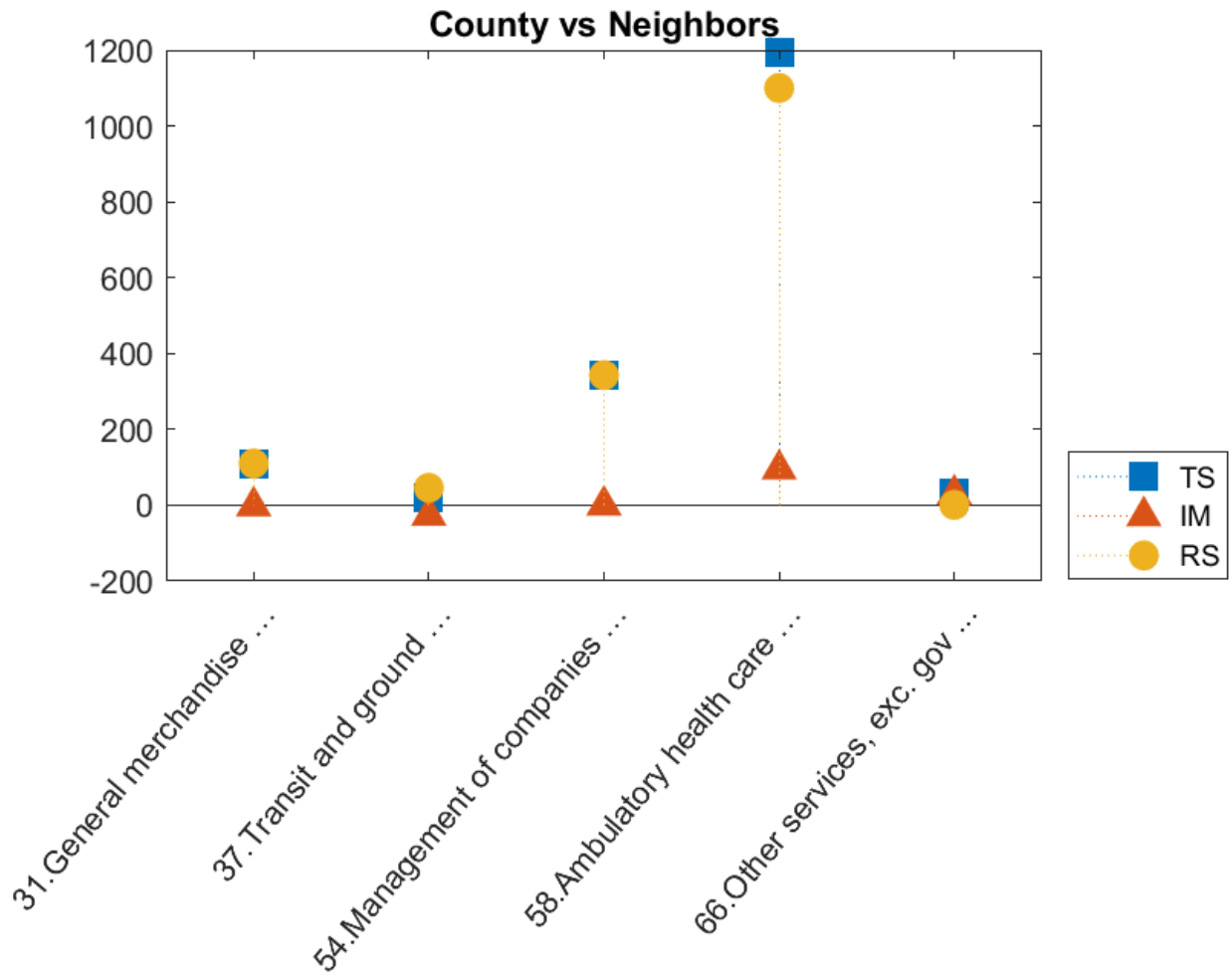


Chapter 14. Fentress County, Tennessee

Selected SSA Components for Fentress County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------------|----|-------|-----|-------|--------------------|
| 31 | General merchandise ... | 0 | 112 | -5 | 117 | 253 |
| 37 | Transit and ground ... | 0 | 22 | -20 | 42 | 117 |
| 54 | Management of companies ... | 0 | 343 | 0 | 343 | 343 |
| 58 | Ambulatory health care ... | 0 | 1,200 | 41 | 1,159 | 1,327 |
| 66 | Other services, exc. gov ... | 0 | 32 | -1 | 33 | 81 |

Selected SSA Components for Fentress County, Tennessee vs Neighbors



Chapter 14. Fentress County, Tennessee

Selected SSA Components for Fentress County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------------|----|-------|-----|-------|--------------------|
| 31 | General merchandise ... | 6 | 108 | -2 | 110 | 253 |
| 37 | Transit and ground ... | 4 | 19 | -27 | 46 | 117 |
| 54 | Management of companies ... | 0 | 343 | 0 | 343 | 343 |
| 58 | Ambulatory health care ... | 5 | 1,195 | 95 | 1,100 | 1,327 |
| 66 | Other services, exc. gov ... | 2 | 30 | 29 | 1 | 81 |

Chapter 15. Franklin County, Tennessee

Employment in Franklin County, Tennessee, grew from 11,136 in 2005 to 11,894 in 2018, for a change of 758, or 6.81%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Franklin County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|------|------|------|
| vs. U.S. | 1,255 | -501 | -527 | 26 |
| vs. Appalachia | 31 | 722 | -121 | 843 |
| vs. Neighbors | 1,365 | -606 | -308 | -298 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Franklin County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 15. Franklin County, Tennessee

Industry Group Membership for Franklin County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 07 | Utilities | F III c iii | no | yes | yes | yes |
| 09 | Wood products | F III c i | no | yes | yes | yes |
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c iii | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 61 | Social assistance | B II b ii | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II b ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Franklin County, Tennessee vs. the United States

Groups a, b, and c are from Franklin County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Franklin County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Franklin County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Franklin County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Franklin County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Franklin County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

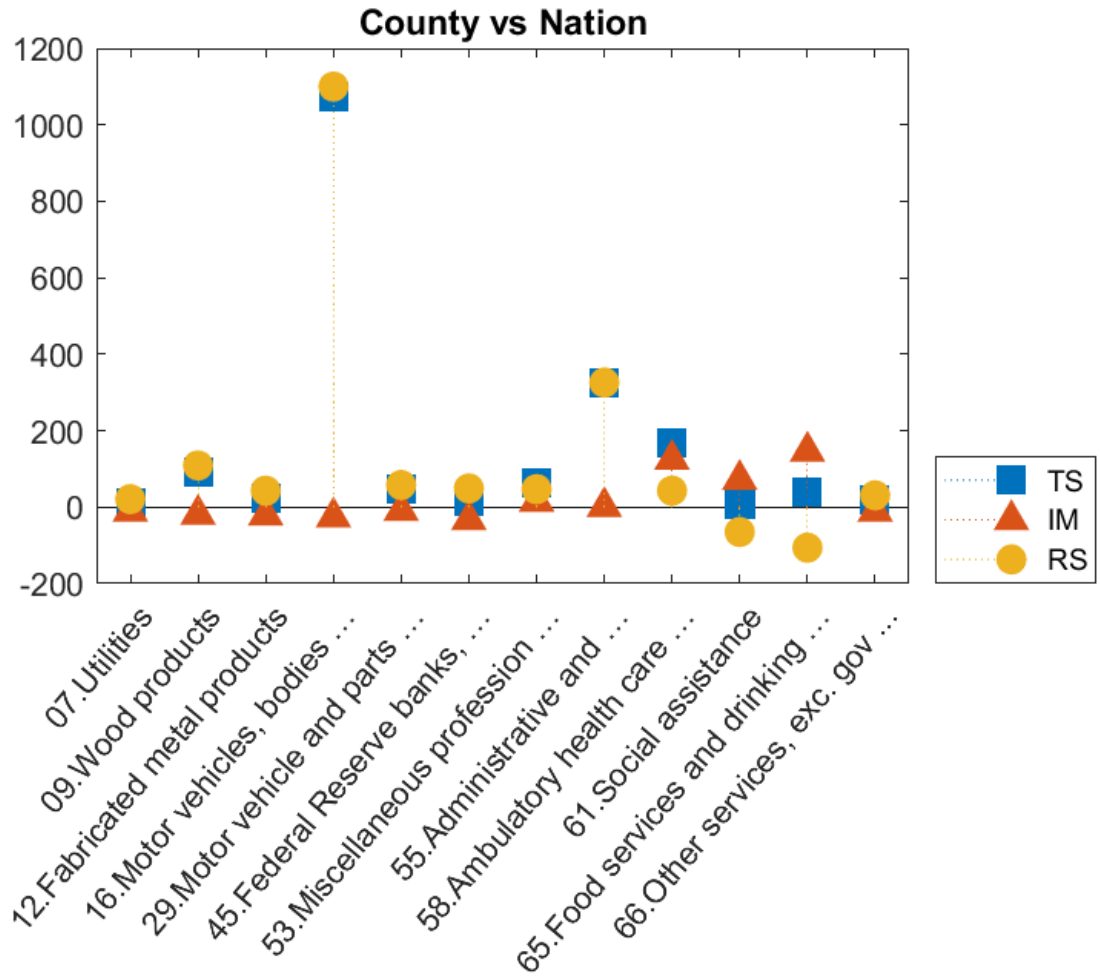
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Franklin County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Franklin County, Tennessee vs the U.S.

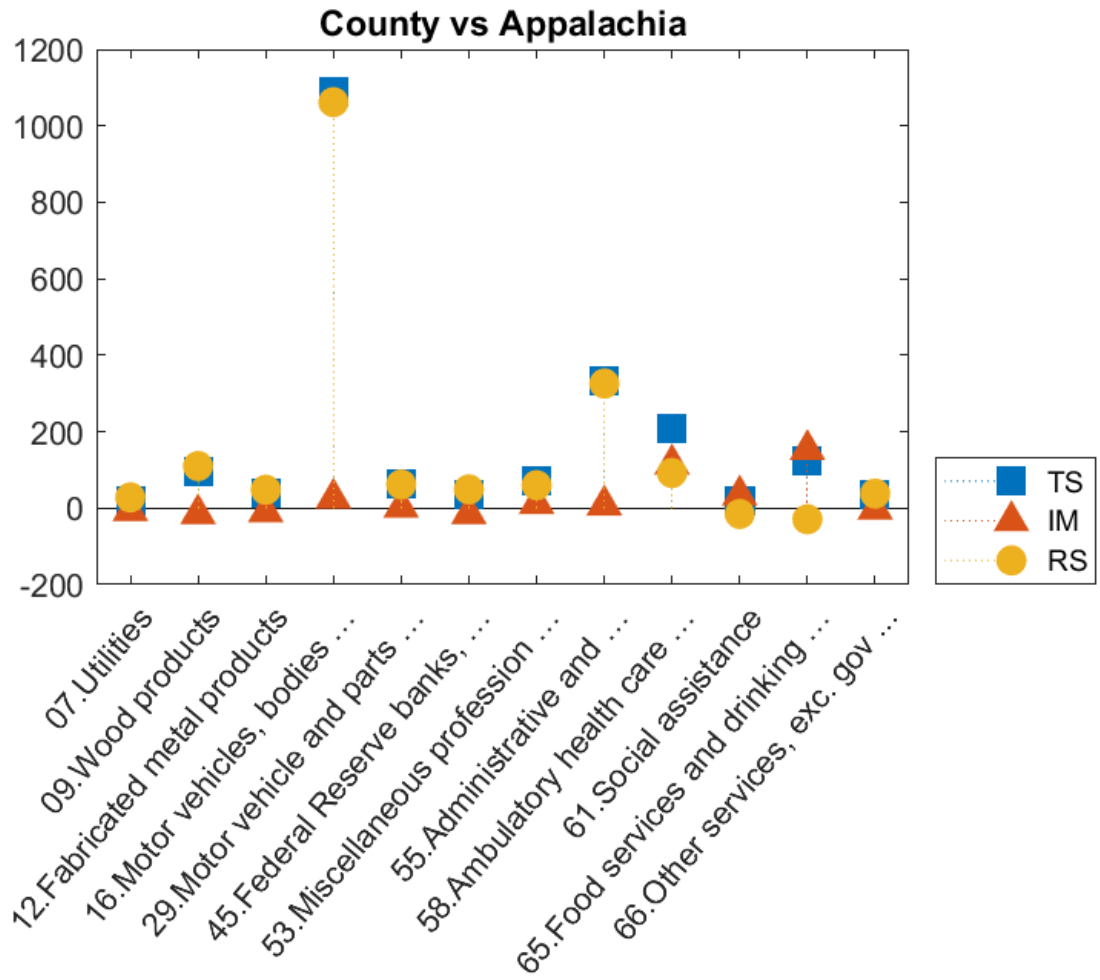


Chapter 15. Franklin County, Tennessee

Franklin County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-----|-------|--------------------|
| 07 | Utilities | 12 | 10 | -11 | 21 | 130 |
| 09 | Wood products | 6 | 90 | -19 | 109 | 145 |
| 12 | Fabricated metal products | 16 | 22 | -21 | 43 | 179 |
| 16 | Motor vehicles, bodies ... | 14 | 1,074 | -26 | 1,100 | 1,216 |
| 29 | Motor vehicle and parts ... | 16 | 49 | -9 | 58 | 206 |
| 45 | Federal Reserve banks, ... | 19 | 16 | -33 | 49 | 203 |
| 53 | Miscellaneous profession ... | 10 | 62 | 15 | 47 | 162 |
| 55 | Administrative and ... | 7 | 327 | 1 | 326 | 394 |
| 58 | Ambulatory health care ... | 40 | 168 | 125 | 43 | 565 |
| 61 | Social assistance | 12 | 7 | 72 | -65 | 130 |
| 65 | Food services and drinking ... | 86 | 40 | 146 | -106 | 890 |
| 66 | Other services, exc. gov ... | 16 | 20 | -11 | 31 | 179 |

Selected SSA Components for Franklin County, Tennessee vs the Appalachian Region

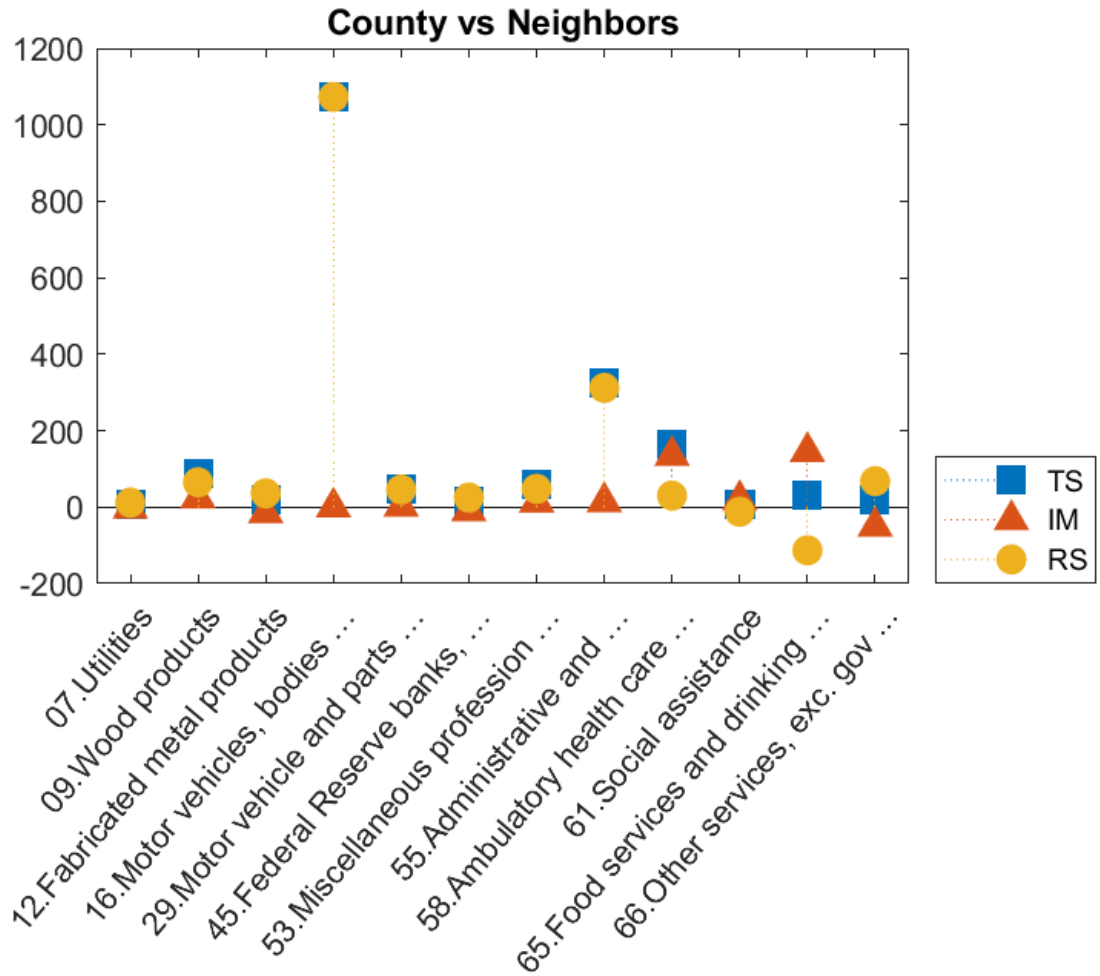


Chapter 15. Franklin County, Tennessee

Selected SSA Components for Franklin County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-----|-------|--------------------|
| 07 | Utilities | 0 | 21 | -7 | 28 | 130 |
| 09 | Wood products | 0 | 95 | -15 | 110 | 145 |
| 12 | Fabricated metal products | 0 | 38 | -10 | 48 | 179 |
| 16 | Motor vehicles, bodies ... | 0 | 1,088 | 26 | 1,062 | 1,216 |
| 29 | Motor vehicle and parts ... | 0 | 64 | 2 | 62 | 206 |
| 45 | Federal Reserve banks, ... | 1 | 34 | -15 | 49 | 203 |
| 53 | Miscellaneous profession ... | 0 | 72 | 12 | 60 | 162 |
| 55 | Administrative and ... | 0 | 334 | 8 | 326 | 394 |
| 58 | Ambulatory health care ... | 1 | 207 | 115 | 92 | 565 |
| 61 | Social assistance | 0 | 19 | 34 | -15 | 130 |
| 65 | Food services and drinking ... | 3 | 124 | 153 | -29 | 890 |
| 66 | Other services, exc. gov ... | 0 | 35 | -3 | 38 | 179 |

Selected SSA Components for Franklin County, Tennessee vs Neighbors



Chapter 15. Franklin County, Tennessee

Selected SSA Components for Franklin County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-----|-------|--------------------|
| 07 | Utilities | 13 | 9 | -3 | 12 | 130 |
| 09 | Wood products | 6 | 89 | 24 | 65 | 145 |
| 12 | Fabricated metal products | 17 | 21 | -15 | 36 | 179 |
| 16 | Motor vehicles, bodies ... | 16 | 1,073 | 0 | 1,073 | 1,216 |
| 29 | Motor vehicle and parts ... | 17 | 48 | 2 | 46 | 206 |
| 45 | Federal Reserve banks, ... | 21 | 15 | -10 | 25 | 203 |
| 53 | Miscellaneous profession ... | 11 | 61 | 13 | 48 | 162 |
| 55 | Administrative and ... | 7 | 326 | 14 | 312 | 394 |
| 58 | Ambulatory health care ... | 44 | 165 | 135 | 30 | 565 |
| 61 | Social assistance | 13 | 7 | 19 | -12 | 130 |
| 65 | Food services and drinking ... | 94 | 32 | 145 | -113 | 890 |
| 66 | Other services, exc. gov ... | 18 | 18 | -50 | 68 | 179 |

Chapter 16. Grainger County, Tennessee

Employment in Grainger County, Tennessee, grew from 3,527 in 2005 to 4,011 in 2018, for a change of 484, or 13.72%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Grainger County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 401 | 89 | -532 | 621 |
| vs. Appalachia | 9 | 473 | -413 | 886 |
| vs. Neighbors | 146 | 334 | -385 | 719 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Grainger County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 16. Grainger County, Tennessee

Industry Group Membership for Grainger County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 01 | Farms | F I a i | no | yes | yes | yes |
| 08 | Construction | F III c iii | no | yes | yes | yes |
| 18 | Furniture and related ... | F III c iii | no | yes | yes | yes |
| 26 | Chemical products | F III c iii | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D I a i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 32 | Other retail | F III c iii | no | yes | yes | yes |
| 36 | Truck transportation | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 67 | Postal service | D III c iii | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Grainger County, Tennessee vs. the United States

Groups a, b, and c are from Grainger County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Grainger County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Grainger County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Grainger County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Grainger County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Grainger County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

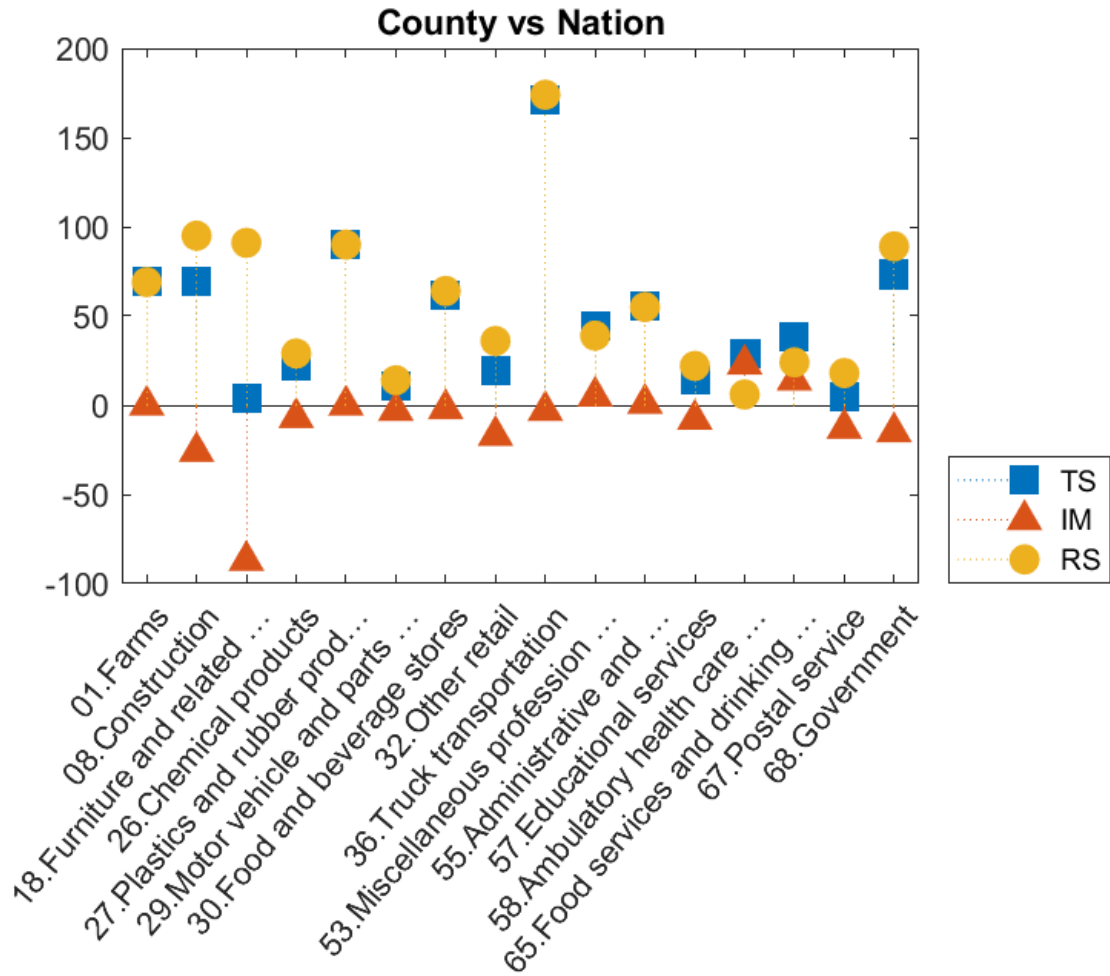
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Grainger County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Grainger County, Tennessee vs the U.S.

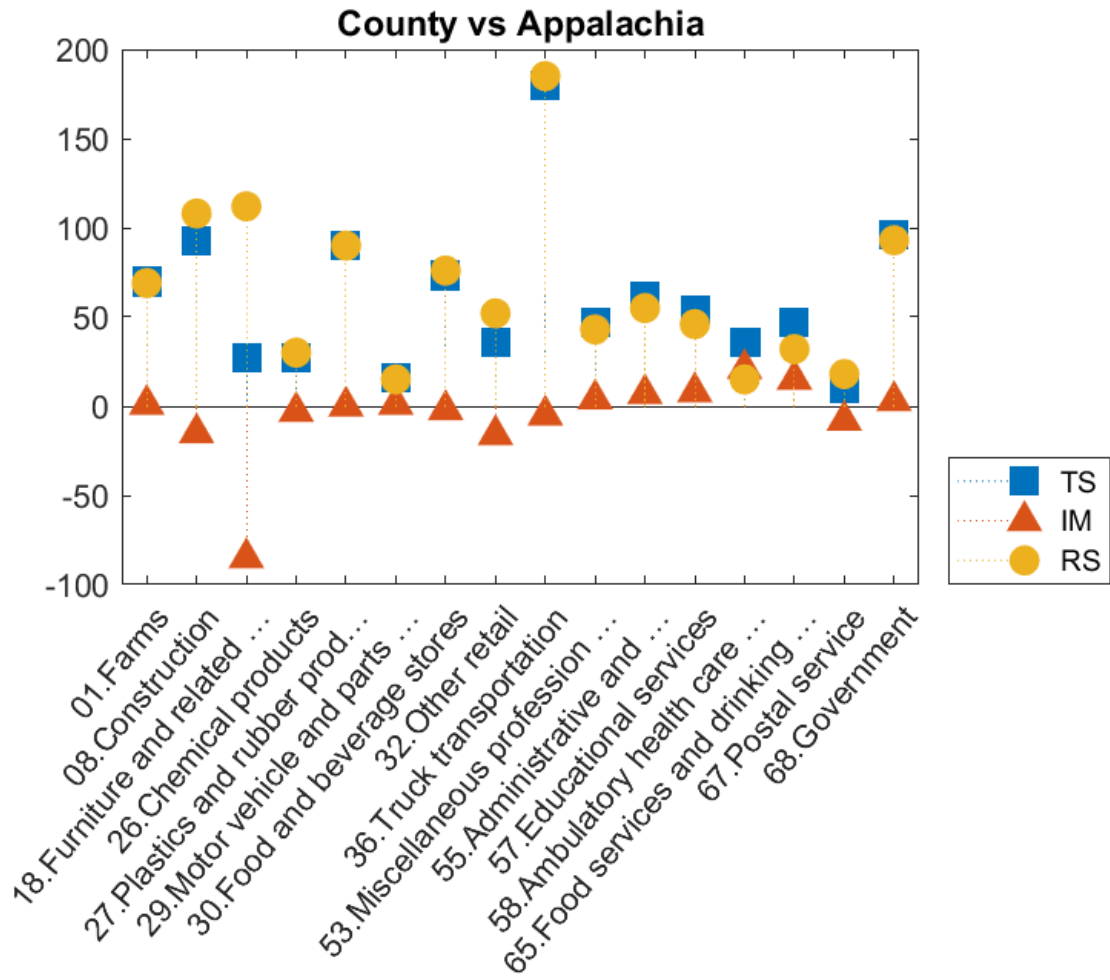


Chapter 16. Grainger County, Tennessee

Grainger County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 01 | Farms | 1 | 69 | -0 | 69 | 81 |
| 08 | Construction | 24 | 69 | -26 | 95 | 305 |
| 18 | Furniture and related ... | 24 | 4 | -87 | 91 | 237 |
| 26 | Chemical products | 5 | 22 | -7 | 29 | 69 |
| 27 | Plastics and rubber prod... | 0 | 90 | 0 | 90 | 90 |
| 29 | Motor vehicle and parts ... | 5 | 11 | -3 | 14 | 60 |
| 30 | Food and beverage stores | 13 | 62 | -2 | 64 | 187 |
| 32 | Other retail | 17 | 19 | -17 | 36 | 184 |
| 36 | Truck transportation | 9 | 171 | -3 | 174 | 262 |
| 53 | Miscellaneous profession ... | 3 | 44 | 5 | 39 | 74 |
| 55 | Administrative and ... | 6 | 56 | 1 | 55 | 113 |
| 57 | Educational services | 41 | 14 | -8 | 22 | 418 |
| 58 | Ambulatory health care ... | 7 | 29 | 23 | 6 | 101 |
| 65 | Food services and drinking ... | 8 | 38 | 14 | 24 | 122 |
| 67 | Postal service | 4 | 5 | -13 | 18 | 49 |
| 68 | Government | 23 | 74 | -15 | 89 | 296 |

Selected SSA Components for Grainger County, Tennessee vs the Appalachian Region

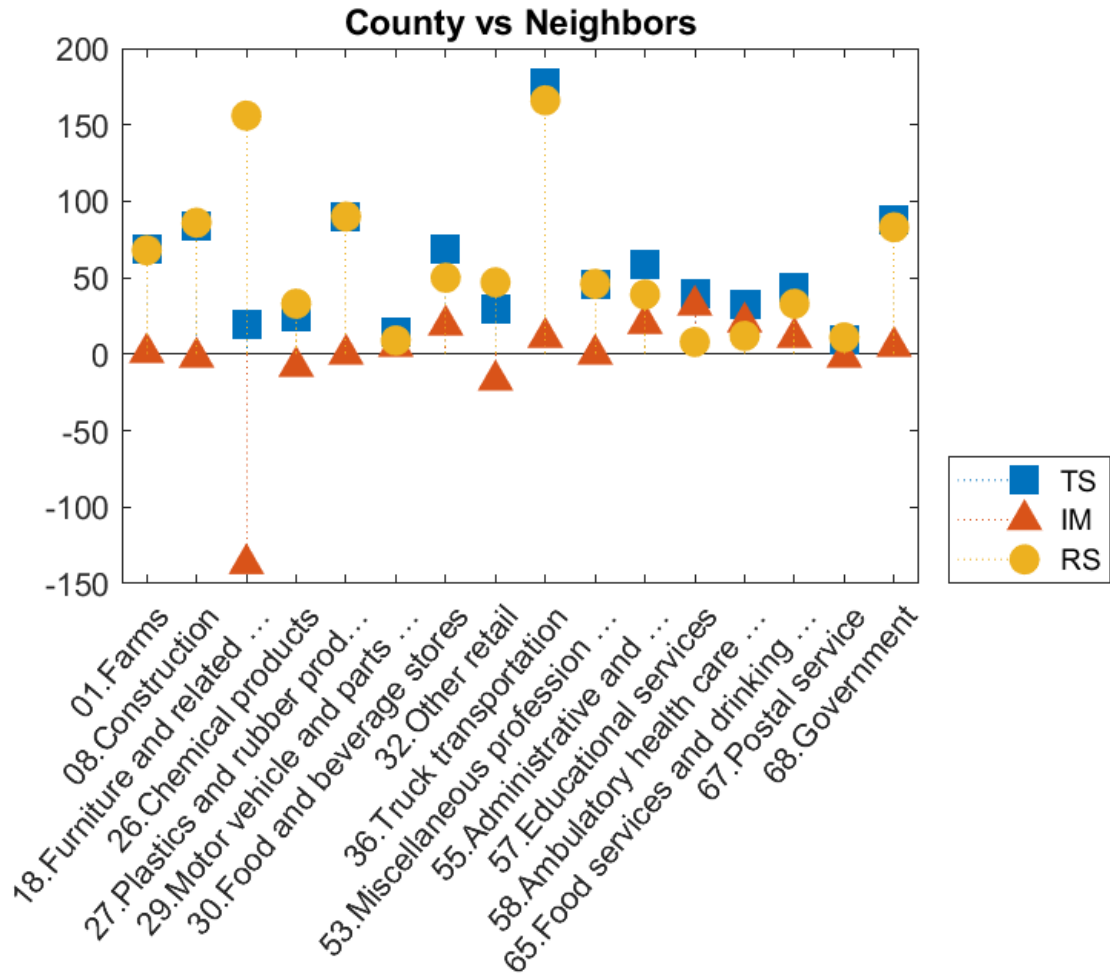


Chapter 16. Grainger County, Tennessee

Selected SSA Components for Grainger County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 01 | Farms | 0 | 70 | 1 | 69 | 81 |
| 08 | Construction | 1 | 93 | -15 | 108 | 305 |
| 18 | Furniture and related ... | 1 | 27 | -85 | 112 | 237 |
| 26 | Chemical products | 0 | 27 | -3 | 30 | 69 |
| 27 | Plastics and rubber prod... | 0 | 90 | 0 | 90 | 90 |
| 29 | Motor vehicle and parts ... | 0 | 16 | 1 | 15 | 60 |
| 30 | Food and beverage stores | 0 | 74 | -2 | 76 | 187 |
| 32 | Other retail | 1 | 36 | -16 | 52 | 184 |
| 36 | Truck transportation | 0 | 180 | -5 | 185 | 262 |
| 53 | Miscellaneous profession ... | 0 | 47 | 4 | 43 | 74 |
| 55 | Administrative and ... | 0 | 62 | 7 | 55 | 113 |
| 57 | Educational services | 1 | 54 | 8 | 46 | 418 |
| 58 | Ambulatory health care ... | 0 | 36 | 21 | 15 | 101 |
| 65 | Food services and drinking ... | 0 | 47 | 15 | 32 | 122 |
| 67 | Postal service | 0 | 10 | -8 | 18 | 49 |
| 68 | Government | 1 | 96 | 3 | 93 | 296 |

Selected SSA Components for Grainger County, Tennessee vs Neighbors



Chapter 16. Grainger County, Tennessee

Selected SSA Components for Grainger County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|------|-----|--------------------|
| 01 | Farms | 0 | 69 | 1 | 68 | 81 |
| 08 | Construction | 9 | 84 | -2 | 86 | 305 |
| 18 | Furniture and related ... | 9 | 19 | -137 | 156 | 237 |
| 26 | Chemical products | 2 | 25 | -8 | 33 | 69 |
| 27 | Plastics and rubber prod... | 0 | 90 | 0 | 90 | 90 |
| 29 | Motor vehicle and parts ... | 2 | 14 | 5 | 9 | 60 |
| 30 | Food and beverage stores | 5 | 69 | 19 | 50 | 187 |
| 32 | Other retail | 6 | 30 | -17 | 47 | 184 |
| 36 | Truck transportation | 3 | 177 | 11 | 166 | 262 |
| 53 | Miscellaneous profession ... | 1 | 46 | -0 | 46 | 74 |
| 55 | Administrative and ... | 2 | 59 | 20 | 39 | 113 |
| 57 | Educational services | 15 | 40 | 32 | 8 | 418 |
| 58 | Ambulatory health care ... | 3 | 33 | 21 | 12 | 101 |
| 65 | Food services and drinking ... | 3 | 44 | 11 | 33 | 122 |
| 67 | Postal service | 2 | 9 | -2 | 11 | 49 |
| 68 | Government | 8 | 88 | 5 | 83 | 296 |

Chapter 17. Greene County, Tennessee

Employment in Greene County, Tennessee, declined from 29,710 in 2005 to 25,235 in 2018, for a change of -4,475, or -15.06%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Greene County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 3,346 | -7,829 | -1,520 | -6,309 |
| vs. Appalachia | 99 | -4,575 | -923 | -3,652 |
| vs. Neighbors | -1,793 | -2,680 | -1,793 | -887 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Greene County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 17. Greene County, Tennessee

Industry Group Membership for Greene County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 13 | Machinery | F III c iii | no | yes | yes | yes |
| 20 | Food and beverage ... | E I c i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 32 | Other retail | F III c i | no | yes | yes | yes |
| 40 | Warehousing and storage | E I a i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a iii | yes | yes | yes | yes |
| 54 | Management of companies ... | A I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B V b ii | yes | no | yes | yes |
| 59 | Hospitals | E I a iii | no | yes | yes | yes |
| 61 | Social assistance | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II b ii | yes | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Greene County, Tennessee vs. the United States

Groups a, b, and c are from Greene County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Greene County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Greene County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Greene County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Greene County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Greene County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

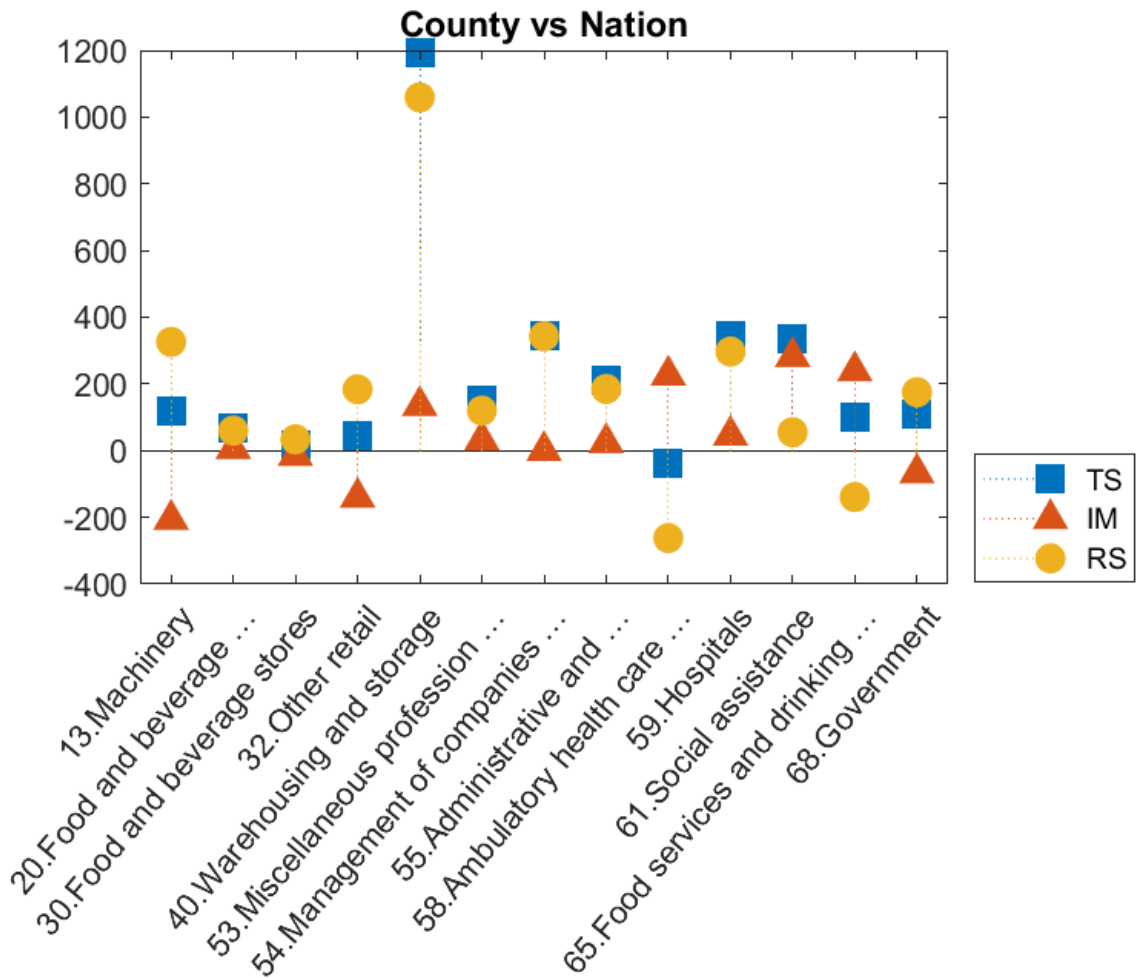
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Greene County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Greene County, Tennessee vs the U.S.

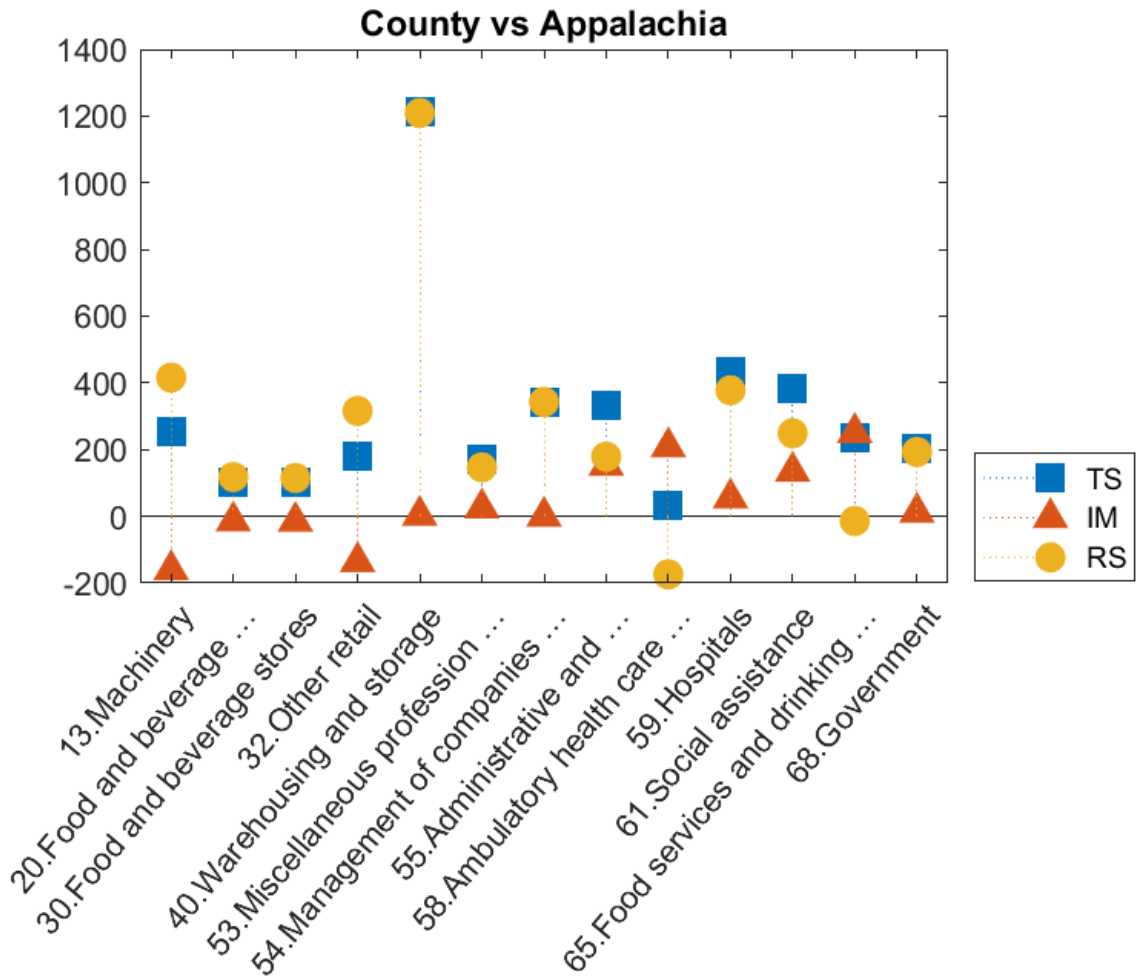


Chapter 17. Greene County, Tennessee

Greene County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-------|------|-------|--------------------|
| 13 | Machinery | 139 | 120 | -206 | 326 | 1,494 |
| 20 | Food and beverage ... | 40 | 66 | 6 | 60 | 456 |
| 30 | Food and beverage stores | 82 | 19 | -15 | 34 | 833 |
| 32 | Other retail | 141 | 44 | -140 | 184 | 1,431 |
| 40 | Warehousing and storage | 18 | 1,194 | 135 | 1,059 | 1,373 |
| 53 | Miscellaneous profession ... | 21 | 152 | 32 | 120 | 363 |
| 54 | Management of companies ... | 0 | 343 | 0 | 343 | 343 |
| 55 | Administrative and ... | 127 | 209 | 24 | 185 | 1,461 |
| 58 | Ambulatory health care ... | 73 | -36 | 226 | -262 | 679 |
| 59 | Hospitals | 93 | 343 | 46 | 297 | 1,263 |
| 61 | Social assistance | 48 | 337 | 282 | 55 | 815 |
| 65 | Food services and drinking ... | 141 | 100 | 239 | -139 | 1,495 |
| 68 | Government | 99 | 108 | -67 | 175 | 1,090 |

Selected SSA Components for Greene County, Tennessee vs the Appalachian Region

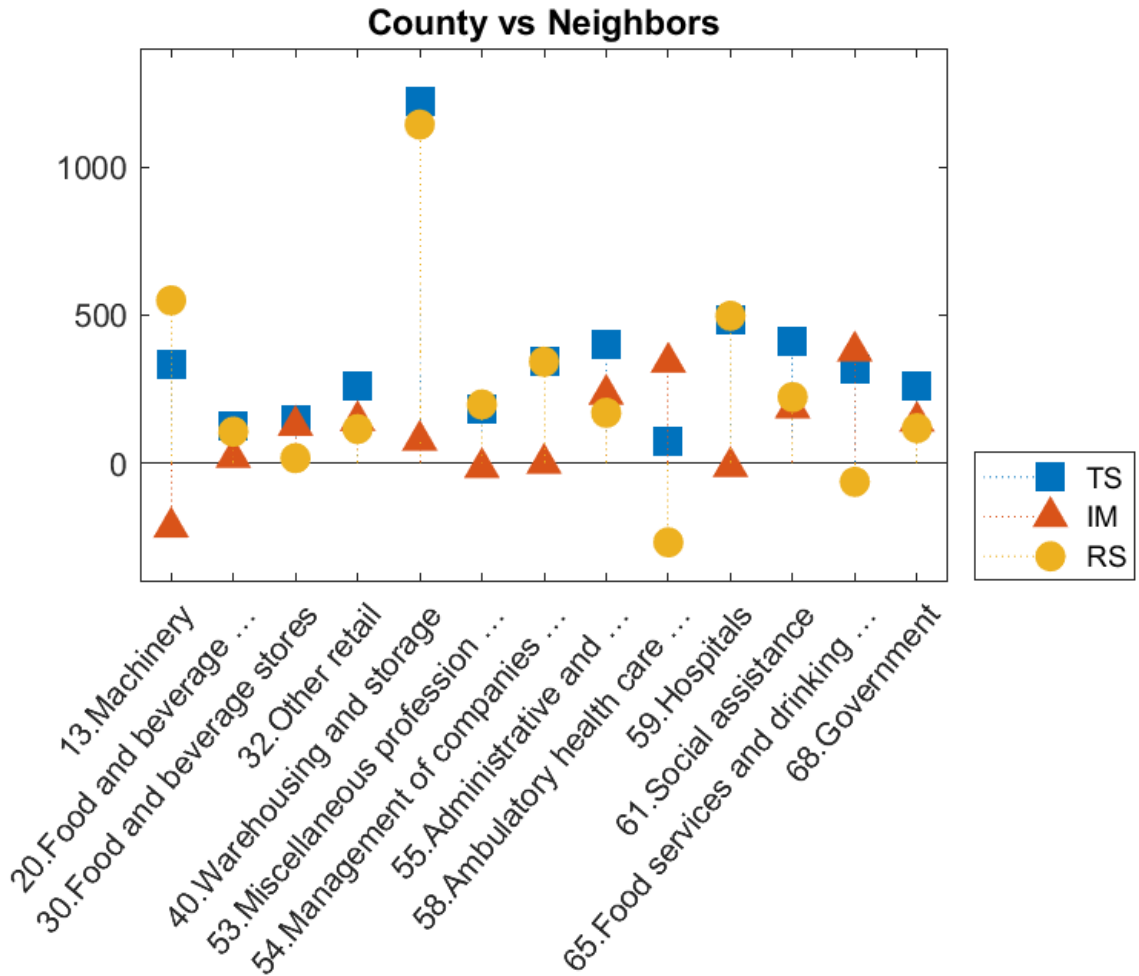


Chapter 17. Greene County, Tennessee

Selected SSA Components for Greene County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|------|-------|--------------------|
| 13 | Machinery | 4 | 256 | -160 | 416 | 1,494 |
| 20 | Food and beverage ... | 1 | 104 | -14 | 118 | 456 |
| 30 | Food and beverage stores | 2 | 100 | -15 | 115 | 833 |
| 32 | Other retail | 4 | 180 | -136 | 316 | 1,431 |
| 40 | Warehousing and storage | 1 | 1,212 | 3 | 1,209 | 1,373 |
| 53 | Miscellaneous profession ... | 1 | 172 | 25 | 147 | 363 |
| 54 | Management of companies ... | 0 | 343 | 0 | 343 | 343 |
| 55 | Administrative and ... | 4 | 332 | 153 | 179 | 1,461 |
| 58 | Ambulatory health care ... | 2 | 34 | 208 | -174 | 679 |
| 59 | Hospitals | 3 | 433 | 55 | 378 | 1,263 |
| 61 | Social assistance | 1 | 384 | 135 | 249 | 815 |
| 65 | Food services and drinking ... | 4 | 237 | 251 | -14 | 1,495 |
| 68 | Government | 3 | 205 | 12 | 193 | 1,090 |

Selected SSA Components for Greene County, Tennessee vs Neighbors



Chapter 17. Greene County, Tennessee

Selected SSA Components for Greene County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-------|------|-------|--------------------|
| 13 | Machinery | -74 | 335 | -215 | 550 | 1,494 |
| 20 | Food and beverage ... | -21 | 127 | 20 | 107 | 456 |
| 30 | Food and beverage stores | -44 | 146 | 128 | 18 | 833 |
| 32 | Other retail | -75 | 260 | 144 | 116 | 1,431 |
| 40 | Warehousing and storage | -10 | 1,221 | 78 | 1,143 | 1,373 |
| 53 | Miscellaneous profession ... | -11 | 185 | -14 | 199 | 363 |
| 54 | Management of companies ... | -0 | 343 | 0 | 343 | 343 |
| 55 | Administrative and ... | -68 | 404 | 233 | 171 | 1,461 |
| 58 | Ambulatory health care ... | -39 | 75 | 341 | -266 | 679 |
| 59 | Hospitals | -50 | 487 | -11 | 498 | 1,263 |
| 61 | Social assistance | -26 | 411 | 187 | 224 | 815 |
| 65 | Food services and drinking ... | -76 | 317 | 379 | -62 | 1,495 |
| 68 | Government | -53 | 261 | 142 | 119 | 1,090 |

Chapter 18. Grundy County, Tennessee

Employment in Grundy County, Tennessee, declined from 3,531 in 2005 to 2,034 in 2018, for a change of -1,497, or -42.4%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Grundy County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|--------|------|--------|
| vs. U.S. | 396 | -1,897 | -172 | -1,725 |
| vs. Appalachia | 10 | -1,511 | -30 | -1,481 |
| vs. Neighbors | -67 | -1,433 | 118 | -1,551 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Grundy County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 18. Grundy County, Tennessee

Industry Group Membership for Grundy County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 16 | Motor vehicles, bodies ... | C IV n ii | yes | no | no | yes |
| 22 | Apparel and leather ... | F III c iii | no | yes | yes | yes |
| 31 | General merchandise ... | F III c iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III a iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Grundy County, Tennessee vs. the United States

Groups a, b, and c are from Grundy County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Grundy County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Grundy County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Grundy County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Grundy County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Grundy County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

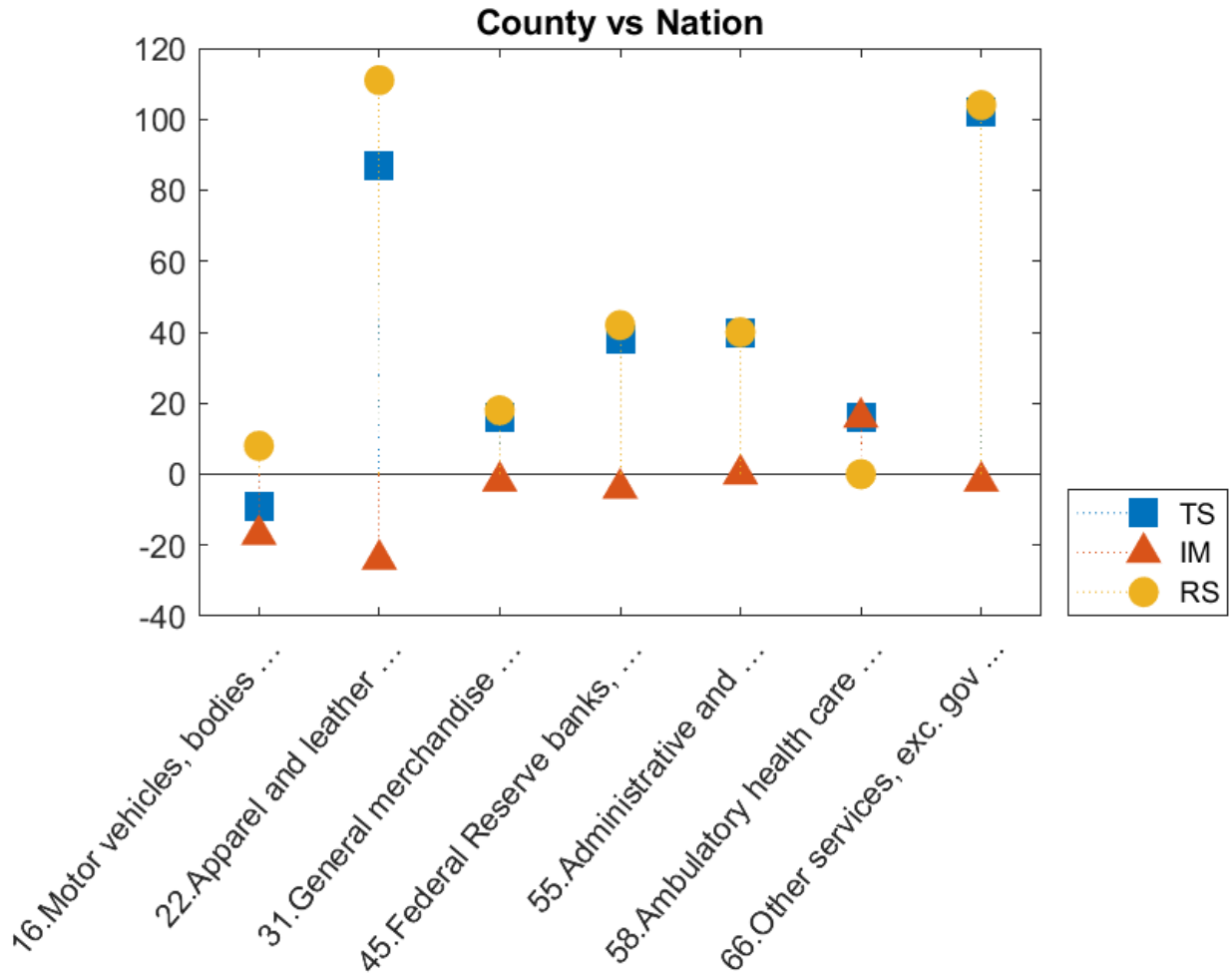
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Grundy County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Grundy County, Tennessee vs the U.S.

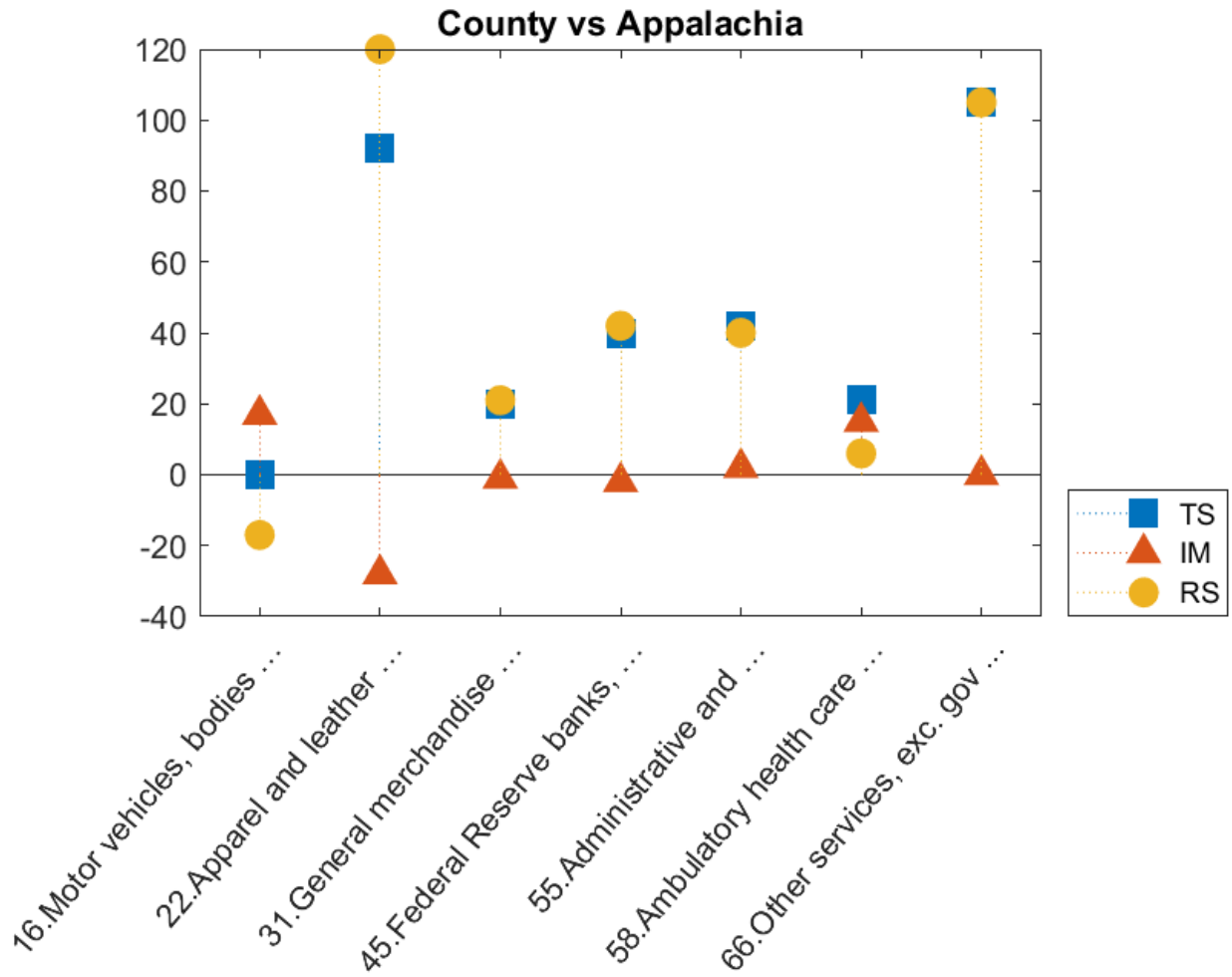


Chapter 18. Grundy County, Tennessee

Grundy County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------|----|-----|-----|-----|--------------------|
| 16 | Motor vehicles, bodies ... | 9 | -9 | -17 | 8 | 83 |
| 22 | Apparel and leather ... | 5 | 87 | -24 | 111 | 135 |
| 31 | General merchandise ... | 3 | 16 | -2 | 18 | 49 |
| 45 | Federal Reserve banks, ... | 2 | 38 | -4 | 42 | 59 |
| 55 | Administrative and ... | 2 | 40 | 0 | 40 | 57 |
| 58 | Ambulatory health care ... | 5 | 16 | 16 | -0 | 67 |
| 66 | Other services, exc. gov ... | 2 | 102 | -2 | 104 | 126 |

Selected SSA Components for Grundy County, Tennessee vs the Appalachian Region

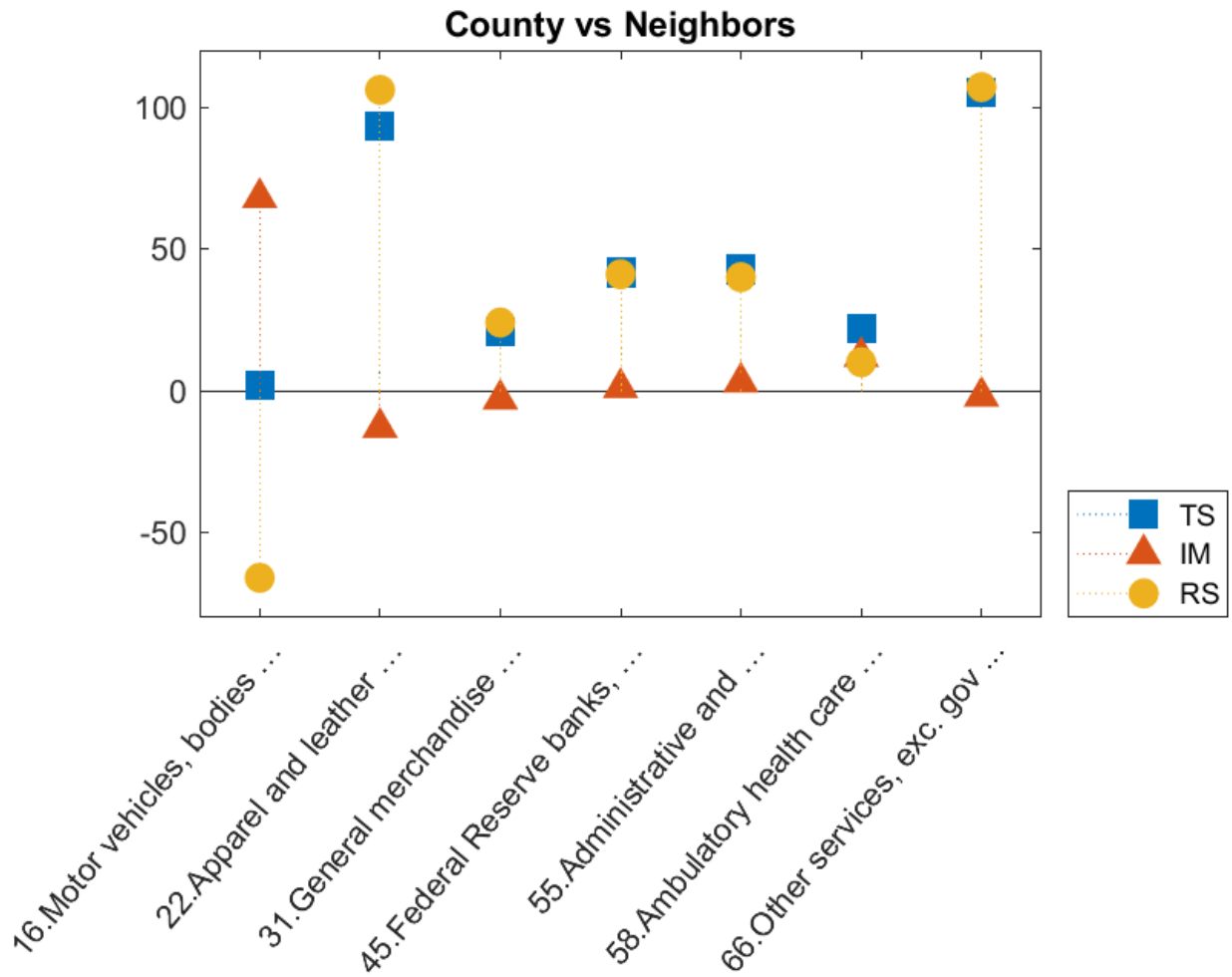


Chapter 18. Grundy County, Tennessee

Selected SSA Components for Grundy County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------|----|-----|-----|-----|--------------------|
| 16 | Motor vehicles, bodies ... | 0 | 0 | 17 | -17 | 83 |
| 22 | Apparel and leather ... | 0 | 92 | -28 | 120 | 135 |
| 31 | General merchandise ... | 0 | 20 | -1 | 21 | 49 |
| 45 | Federal Reserve banks, ... | 0 | 40 | -2 | 42 | 59 |
| 55 | Administrative and ... | 0 | 42 | 2 | 40 | 57 |
| 58 | Ambulatory health care ... | 0 | 21 | 15 | 6 | 67 |
| 66 | Other services, exc. gov ... | 0 | 105 | -0 | 105 | 126 |

Selected SSA Components for Grundy County, Tennessee vs Neighbors



Chapter 18. Grundy County, Tennessee

Selected SSA Components for Grundy County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------|----|-----|-----|-----|--------------------|
| 16 | Motor vehicles, bodies ... | -2 | 2 | 68 | -66 | 83 |
| 22 | Apparel and leather ... | -1 | 93 | -13 | 106 | 135 |
| 31 | General merchandise ... | -1 | 21 | -3 | 24 | 49 |
| 45 | Federal Reserve banks, ... | -0 | 42 | 1 | 41 | 59 |
| 55 | Administrative and ... | -0 | 43 | 3 | 40 | 57 |
| 58 | Ambulatory health care ... | -1 | 22 | 12 | 10 | 67 |
| 66 | Other services, exc. gov ... | -0 | 105 | -2 | 107 | 126 |

Chapter 19. Hamblen County, Tennessee

Employment in Hamblen County, Tennessee, declined from 36,173 in 2005 to 31,277 in 2018, for a change of -4,896, or -13.53%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Hamblen County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|--------|--------|--------|--------|
| vs. U.S. | 4,078 | -8,980 | -2,611 | -6,369 |
| vs. Appalachia | 122 | -5,018 | -1,273 | -3,745 |
| vs. Neighbors | -2,763 | -2,128 | -512 | -1,616 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Hamblen County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 19. Hamblen County, Tennessee

Industry Group Membership for Hamblen County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 19 | Miscellaneous manufac ... | F III c i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 31 | General merchandise ... | F III c iii | no | yes | yes | yes |
| 55 | Administrative and ... | A V e ii | yes | no | no | yes |
| 58 | Ambulatory health care ... | B V b ii | yes | no | yes | yes |
| 60 | Nursing and residential ... | E I a iii | no | yes | yes | yes |
| 61 | Social assistance | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Hamblen County, Tennessee vs. the United States

Groups a, b, and c are from Hamblen County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Hamblen County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Hamblen County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Hamblen County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Hamblen County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Hamblen County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

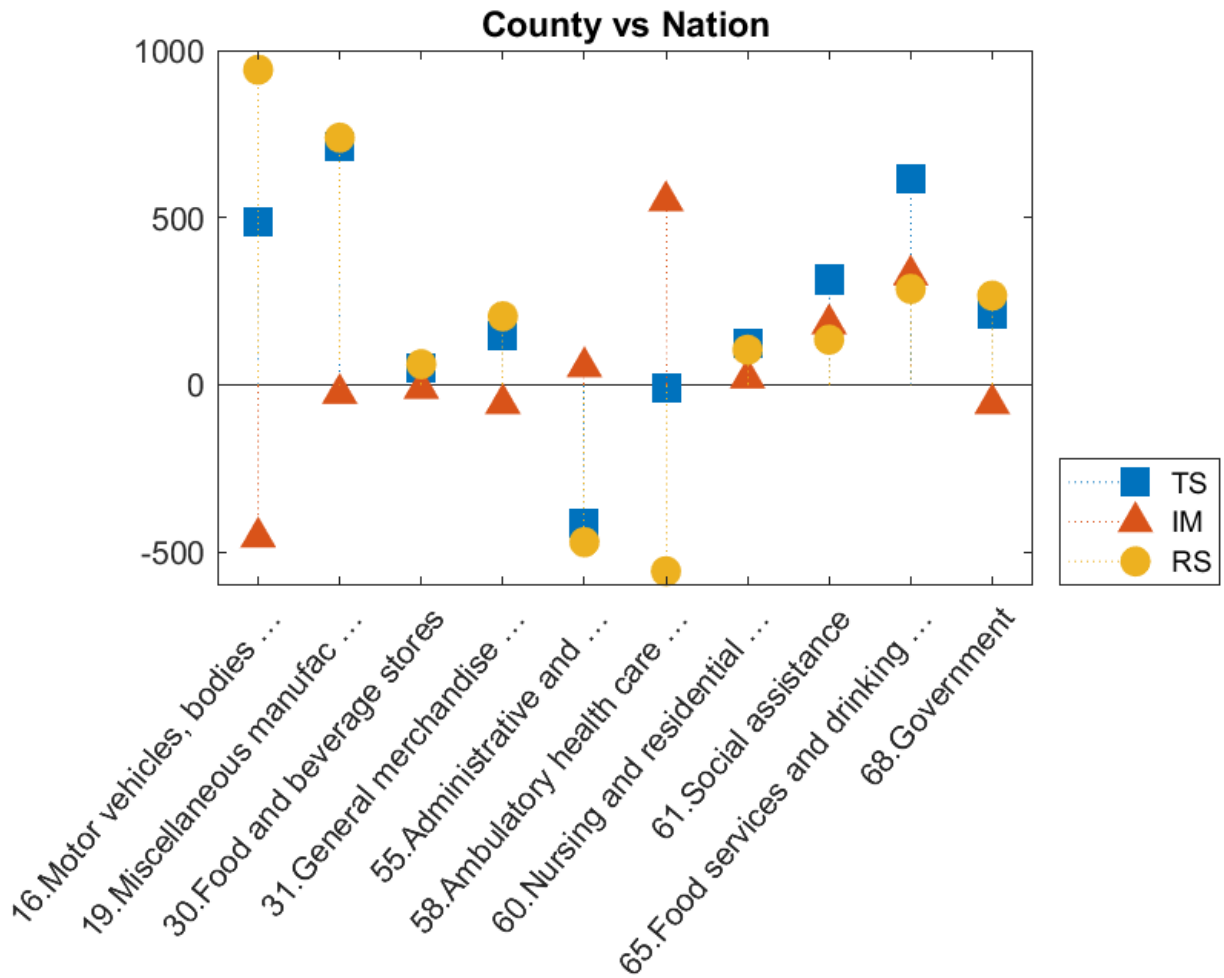
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Hamblen County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Hamblen County, Tennessee vs the U.S.

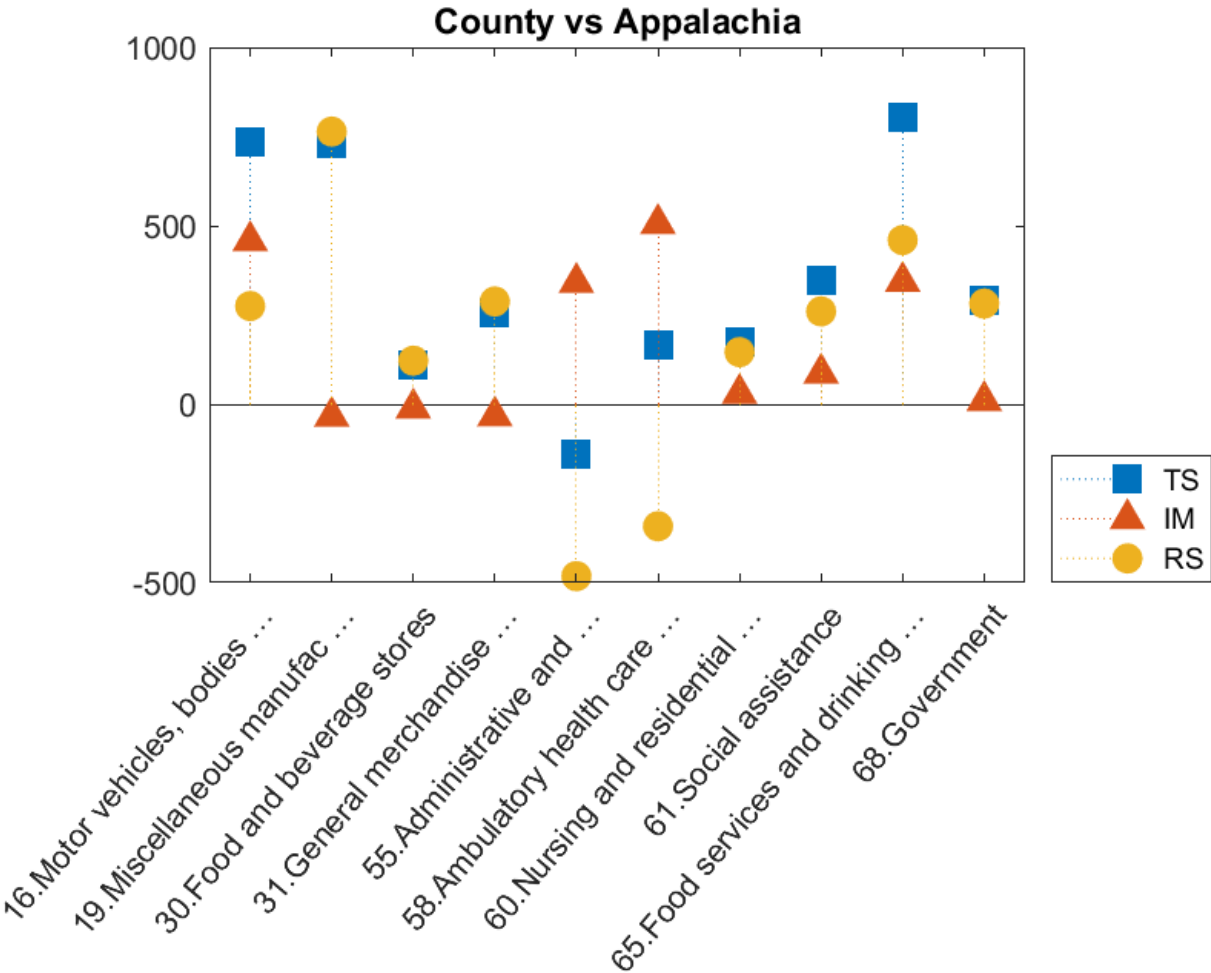


Chapter 19. Hamblen County, Tennessee

Hamblen County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|------|------|------|--------------------|
| 16 | Motor vehicles, bodies ... | 254 | 487 | -455 | 942 | 2,994 |
| 19 | Miscellaneous manufac ... | 18 | 713 | -26 | 739 | 892 |
| 30 | Food and beverage stores | 61 | 51 | -11 | 62 | 655 |
| 31 | General merchandise ... | 109 | 149 | -56 | 205 | 1,228 |
| 55 | Administrative and ... | 283 | -416 | 54 | -470 | 2,374 |
| 58 | Ambulatory health care ... | 177 | -7 | 550 | -557 | 1,738 |
| 60 | Nursing and residential ... | 52 | 125 | 20 | 105 | 639 |
| 61 | Social assistance | 31 | 317 | 182 | 135 | 625 |
| 65 | Food services and drinking ... | 194 | 615 | 328 | 287 | 2,533 |
| 68 | Government | 83 | 211 | -56 | 267 | 1,026 |

Selected SSA Components for Hamblen County, Tennessee vs the Appalachian Region

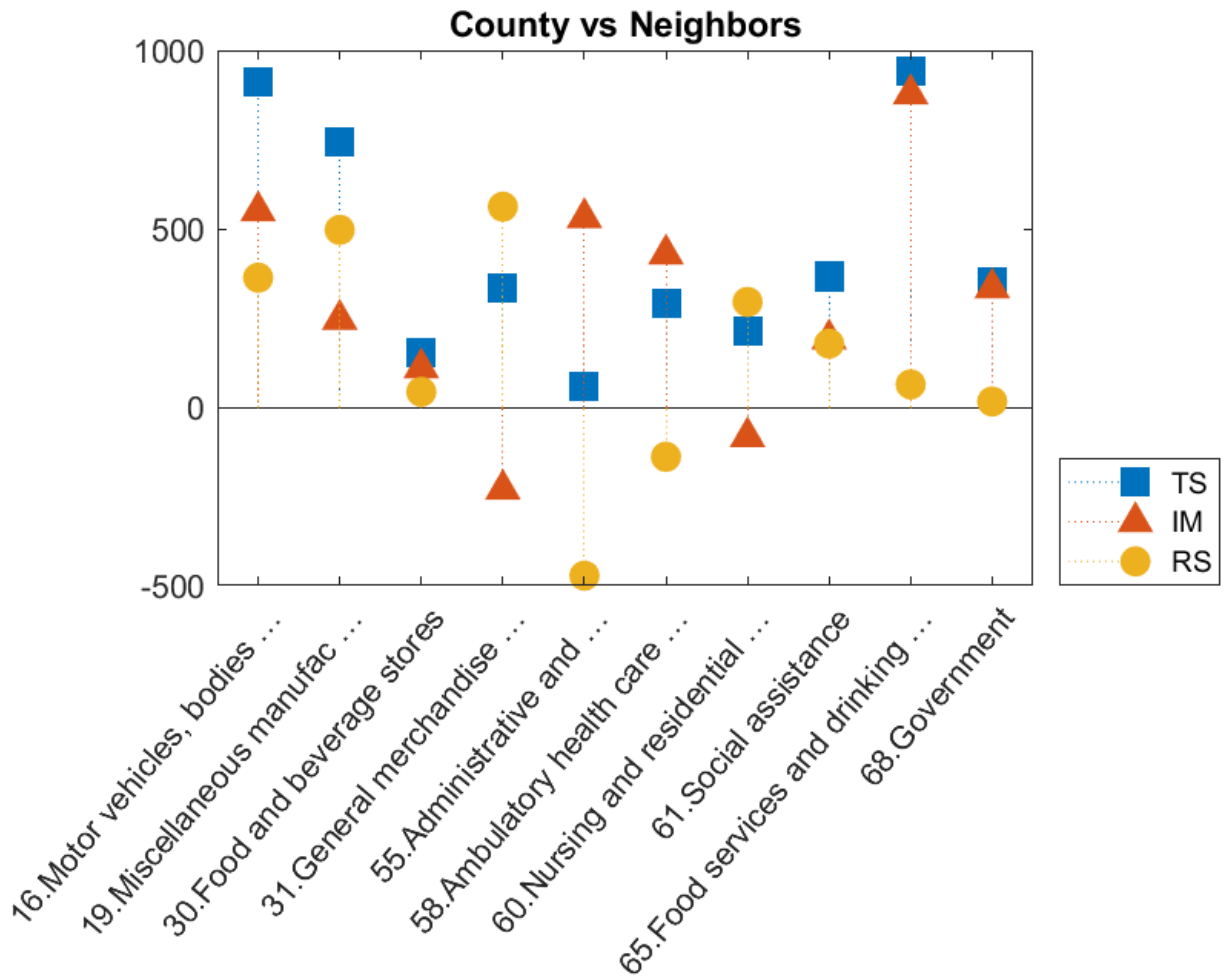


Chapter 19. Hamblen County, Tennessee

Selected SSA Components for Hamblen County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|------|-----|------|--------------------|
| 16 | Motor vehicles, bodies ... | 8 | 733 | 458 | 275 | 2,994 |
| 19 | Miscellaneous manufac ... | 1 | 730 | -34 | 764 | 892 |
| 30 | Food and beverage stores | 2 | 111 | -11 | 122 | 655 |
| 31 | General merchandise ... | 3 | 255 | -33 | 288 | 1,228 |
| 55 | Administrative and ... | 9 | -141 | 341 | -482 | 2,374 |
| 58 | Ambulatory health care ... | 5 | 164 | 506 | -342 | 1,738 |
| 60 | Nursing and residential ... | 2 | 176 | 30 | 146 | 639 |
| 61 | Social assistance | 1 | 347 | 87 | 260 | 625 |
| 65 | Food services and drinking ... | 6 | 804 | 344 | 460 | 2,533 |
| 68 | Government | 2 | 292 | 10 | 282 | 1,026 |

Selected SSA Components for Hamblen County, Tennessee vs Neighbors



Chapter 19. Hamblen County, Tennessee

Selected SSA Components for Hamblen County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|------|-----|------|------|--------------------|
| 16 | Motor vehicles, bodies ... | -172 | 913 | 550 | 363 | 2,994 |
| 19 | Miscellaneous manufac ... | -12 | 743 | 246 | 497 | 892 |
| 30 | Food and beverage stores | -41 | 153 | 110 | 43 | 655 |
| 31 | General merchandise ... | -74 | 332 | -230 | 562 | 1,228 |
| 55 | Administrative and ... | -192 | 59 | 531 | -472 | 2,374 |
| 58 | Ambulatory health care ... | -120 | 290 | 429 | -139 | 1,738 |
| 60 | Nursing and residential ... | -35 | 212 | -83 | 295 | 639 |
| 61 | Social assistance | -21 | 369 | 191 | 178 | 625 |
| 65 | Food services and drinking ... | -132 | 942 | 878 | 64 | 2,533 |
| 68 | Government | -56 | 350 | 334 | 16 | 1,026 |

Chapter 20. Hamilton County, Tennessee

Employment in Hamilton County, Tennessee, grew from 205,568 in 2005 to 205,604 in 2018, for a change of 36, or 0.02%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Hamilton County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|--------|---------|--------|---------|
| vs. U.S. | 23,184 | -23,148 | 10,077 | -33,225 |
| vs. Appalachia | 697 | -668 | 1,979 | -2,647 |
| vs. Neighbors | -2,658 | 2,697 | -1,777 | 4,474 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Hamilton County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 20. Hamilton County, Tennessee

Industry Group Membership for Hamilton County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B V b iii | yes | no | yes | yes |
| 54 | Management of companies ... | A II b ii | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a ii | yes | yes | yes | yes |
| 59 | Hospitals | E I a iii | no | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 61 | Social assistance | B II a i | yes | yes | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II a ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Hamilton County, Tennessee vs. the United States

Groups a, b, and c are from Hamilton County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Hamilton County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Hamilton County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Hamilton County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Hamilton County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Hamilton County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

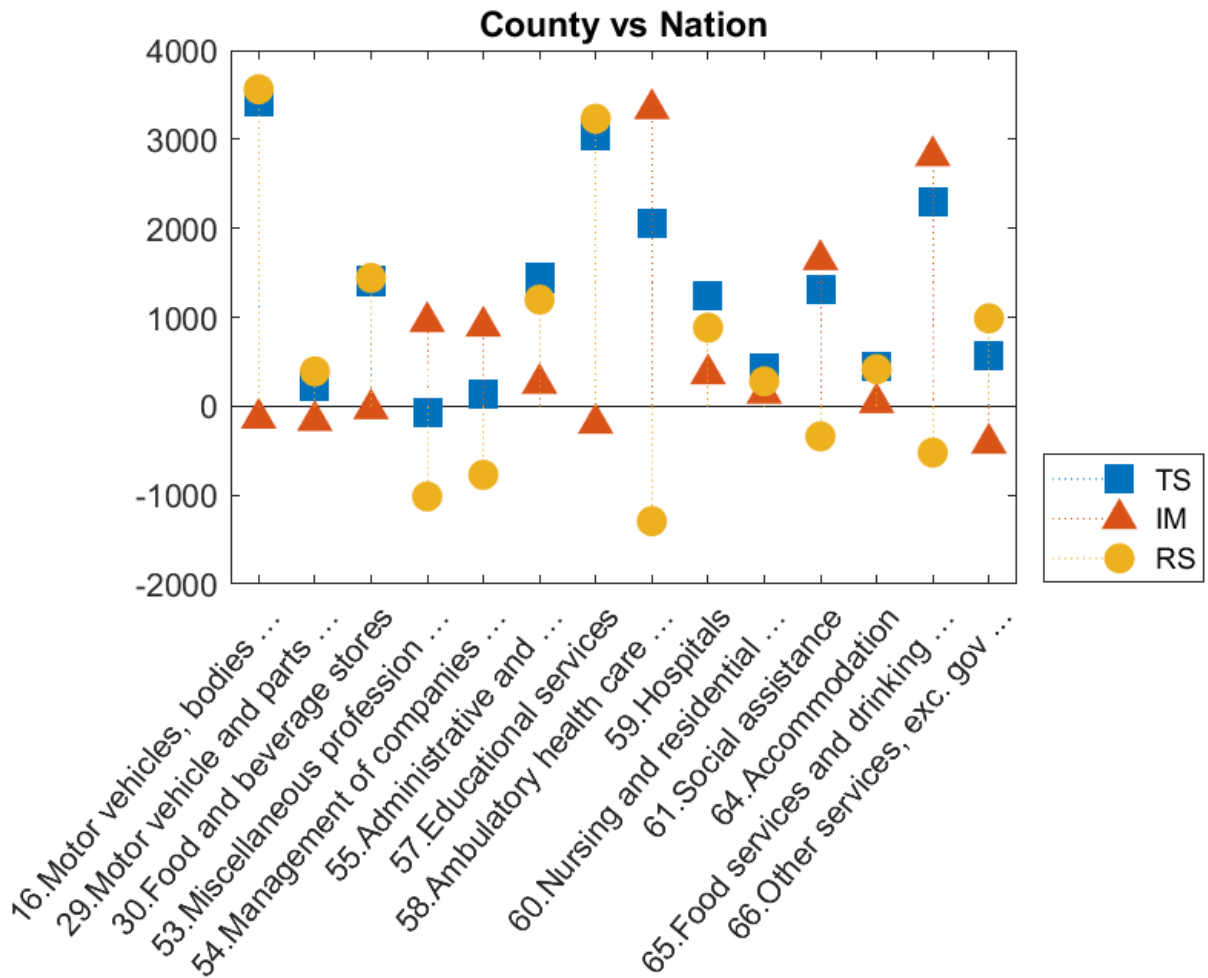
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Hamilton County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Hamilton County, Tennessee vs the U.S.

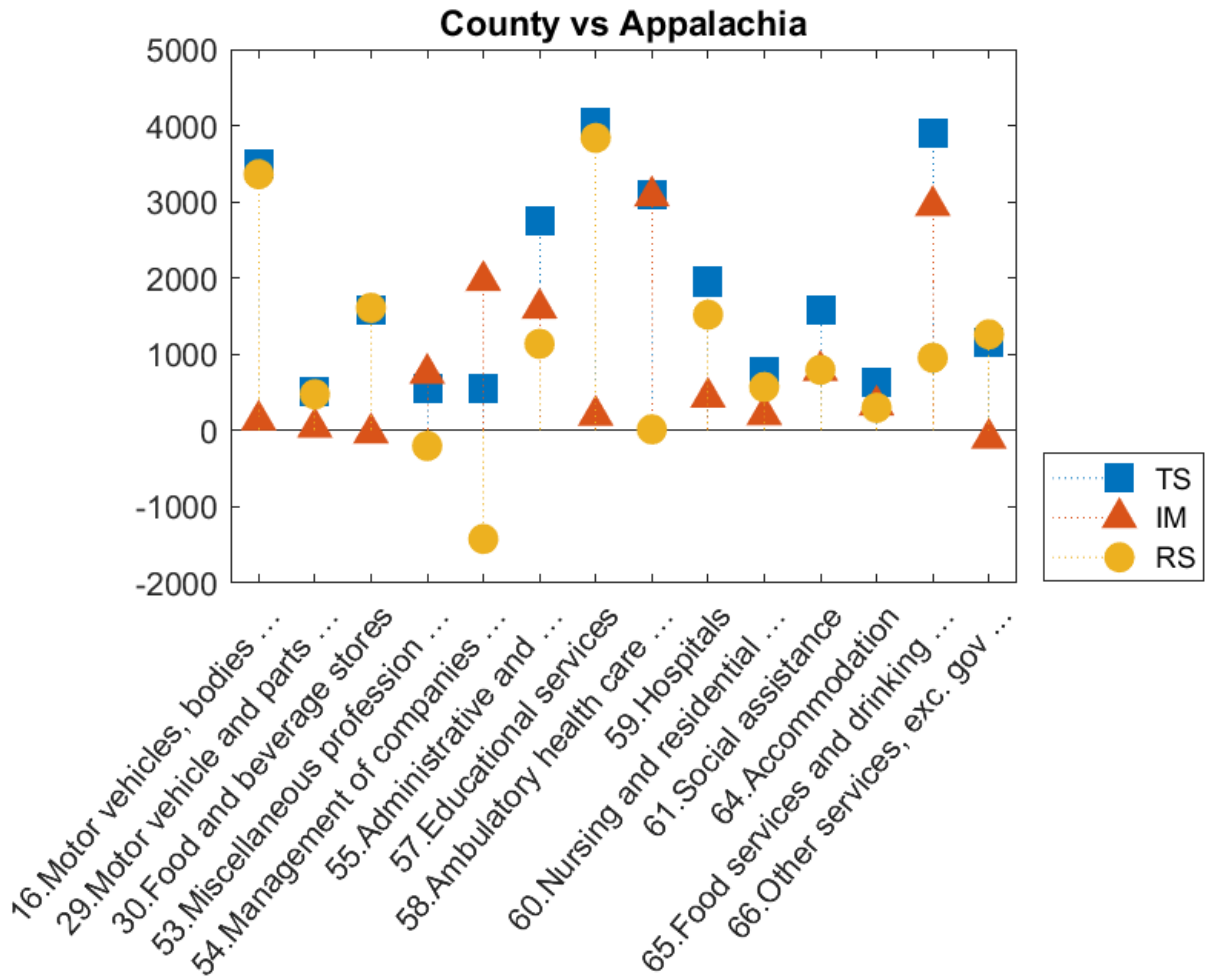


Chapter 20. Hamilton County, Tennessee

Hamilton County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-------|-------|-------|--------|--------------------|
| 16 | Motor vehicles, bodies ... | 76 | 3,426 | -136 | 3,562 | 4,176 |
| 29 | Motor vehicle and parts ... | 299 | 228 | -163 | 391 | 3,181 |
| 30 | Food and beverage stores | 172 | 1,411 | -31 | 1,442 | 3,108 |
| 53 | Miscellaneous profession ... | 633 | -66 | 949 | -1,015 | 6,179 |
| 54 | Management of companies ... | 433 | 127 | 899 | -772 | 4,396 |
| 55 | Administrative and ... | 1,330 | 1,453 | 255 | 1,198 | 14,575 |
| 57 | Educational services | 1,032 | 3,038 | -193 | 3,231 | 13,218 |
| 58 | Ambulatory health care ... | 1,075 | 2,050 | 3,343 | -1,293 | 12,655 |
| 59 | Hospitals | 734 | 1,244 | 362 | 882 | 8,489 |
| 60 | Nursing and residential ... | 367 | 423 | 144 | 279 | 4,048 |
| 61 | Social assistance | 283 | 1,307 | 1,647 | -340 | 4,104 |
| 64 | Accommodation | 186 | 454 | 38 | 416 | 2,284 |
| 65 | Food services and drinking ... | 1,665 | 2,292 | 2,814 | -522 | 18,719 |
| 66 | Other services, exc. gov ... | 607 | 570 | -417 | 987 | 6,564 |

Selected SSA Components for Hamilton County, Tennessee vs the Appalachian Region

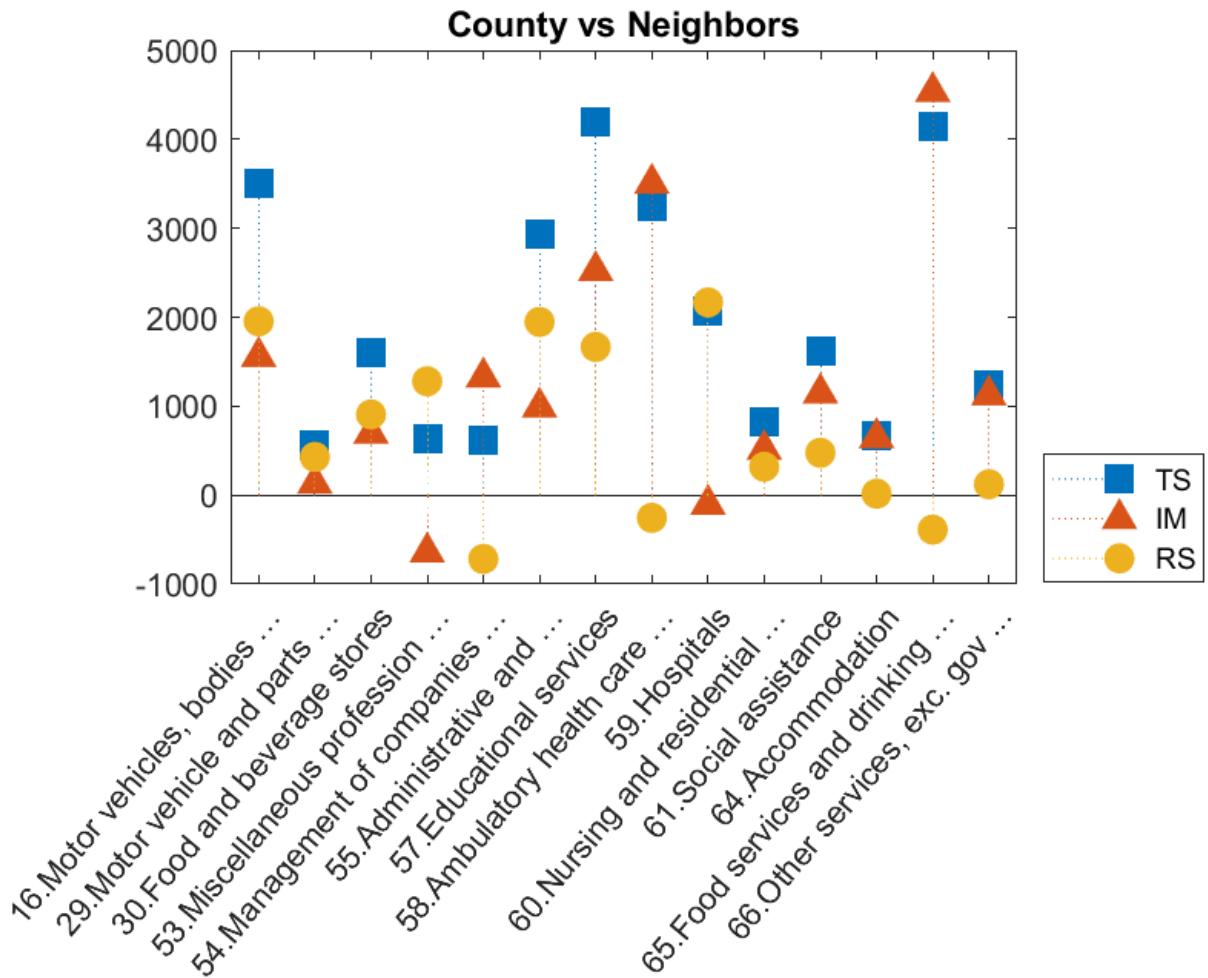


Chapter 20. Hamilton County, Tennessee

Selected SSA Components for Hamilton County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|-----------------|--------------------------------|-----------|-----------|-----------|-----------|----------------------------|
| 16 | Motor vehicles, bodies ... | 2 | 3,499 | 137 | 3,362 | 4,176 |
| 29 | Motor vehicle and parts ... | 9 | 518 | 42 | 476 | 3,181 |
| 30 | Food and beverage stores | 5 | 1,578 | -32 | 1,610 | 3,108 |
| 53 | Miscellaneous profession ... | 19 | 548 | 750 | -202 | 6,179 |
| 54 | Management of companies ... | 13 | 547 | 1,968 | -1,421 | 4,396 |
| 55 | Administrative and ... | 40 | 2,743 | 1,605 | 1,138 | 14,575 |
| 57 | Educational services | 31 | 4,039 | 200 | 3,839 | 13,218 |
| 58 | Ambulatory health care ... | 32 | 3,093 | 3,077 | 16 | 12,655 |
| 59 | Hospitals | 22 | 1,956 | 436 | 1,520 | 8,489 |
| 60 | Nursing and residential ... | 11 | 779 | 208 | 571 | 4,048 |
| 61 | Social assistance | 9 | 1,582 | 786 | 796 | 4,104 |
| 64 | Accommodation | 6 | 633 | 334 | 299 | 2,284 |
| 65 | Food services and drinking ... | 50 | 3,906 | 2,951 | 955 | 18,719 |
| 66 | Other services, exc. gov ... | 18 | 1,160 | -102 | 1,262 | 6,564 |

Selected SSA Components for Hamilton County, Tennessee vs Neighbors



Chapter 20. Hamilton County, Tennessee

Selected SSA Components for Hamilton County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|------|-------|-------|-------|--------------------|
| 16 | Motor vehicles, bodies ... | -9 | 3,511 | 1,557 | 1,954 | 4,176 |
| 29 | Motor vehicle and parts ... | -34 | 561 | 132 | 429 | 3,181 |
| 30 | Food and beverage stores | -20 | 1,602 | 695 | 907 | 3,108 |
| 53 | Miscellaneous profession ... | -73 | 639 | -641 | 1,280 | 6,179 |
| 54 | Management of companies ... | -50 | 610 | 1,327 | -717 | 4,396 |
| 55 | Administrative and ... | -153 | 2,936 | 989 | 1,947 | 14,575 |
| 57 | Educational services | -118 | 4,189 | 2,523 | 1,666 | 13,218 |
| 58 | Ambulatory health care ... | -123 | 3,249 | 3,504 | -255 | 12,655 |
| 59 | Hospitals | -84 | 2,062 | -104 | 2,166 | 8,489 |
| 60 | Nursing and residential ... | -42 | 832 | 513 | 319 | 4,048 |
| 61 | Social assistance | -33 | 1,623 | 1,147 | 476 | 4,104 |
| 64 | Accommodation | -21 | 660 | 644 | 16 | 2,284 |
| 65 | Food services and drinking ... | -191 | 4,148 | 4,536 | -388 | 18,719 |
| 66 | Other services, exc. gov ... | -70 | 1,247 | 1,125 | 122 | 6,564 |

Chapter 21. Hancock County, Tennessee

Employment in Hancock County, Tennessee, declined from 961 in 2005 to 849 in 2018, for a change of -112, or -11.65%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Hancock County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|------|-----|------|
| vs. U.S. | 110 | -217 | -63 | -154 |
| vs. Appalachia | 2 | -114 | -4 | -110 |
| vs. Neighbors | -35 | -75 | 30 | -105 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Hancock County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 21. Hancock County, Tennessee

Industry Group Membership for Hancock County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 27 | Plastics and rubber prod... | D I a i | no | yes | yes | yes |
| 28 | Wholesale trade | F I a iii | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F I a iii | no | yes | yes | yes |
| 36 | Truck transportation | F I a i | no | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B V b ii | yes | no | yes | yes |
| 59 | Hospitals | E I a i | no | yes | yes | yes |
| 62 | Performing arts, spectator ... | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F I a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Hancock County, Tennessee vs. the United States

Groups a, b, and c are from Hancock County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Hancock County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Hancock County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Hancock County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Hancock County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Hancock County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

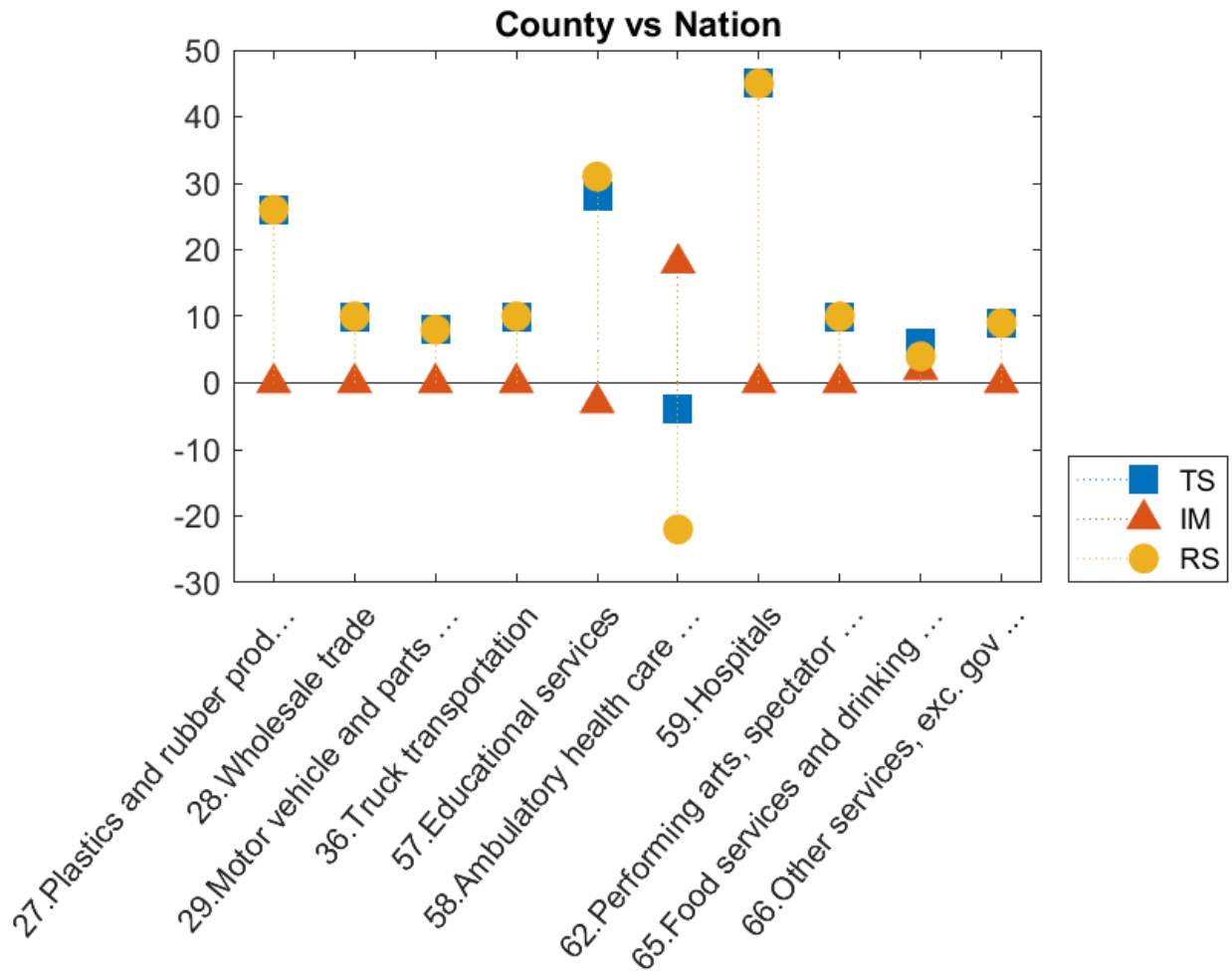
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Hancock County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Hancock County, Tennessee vs the U.S.

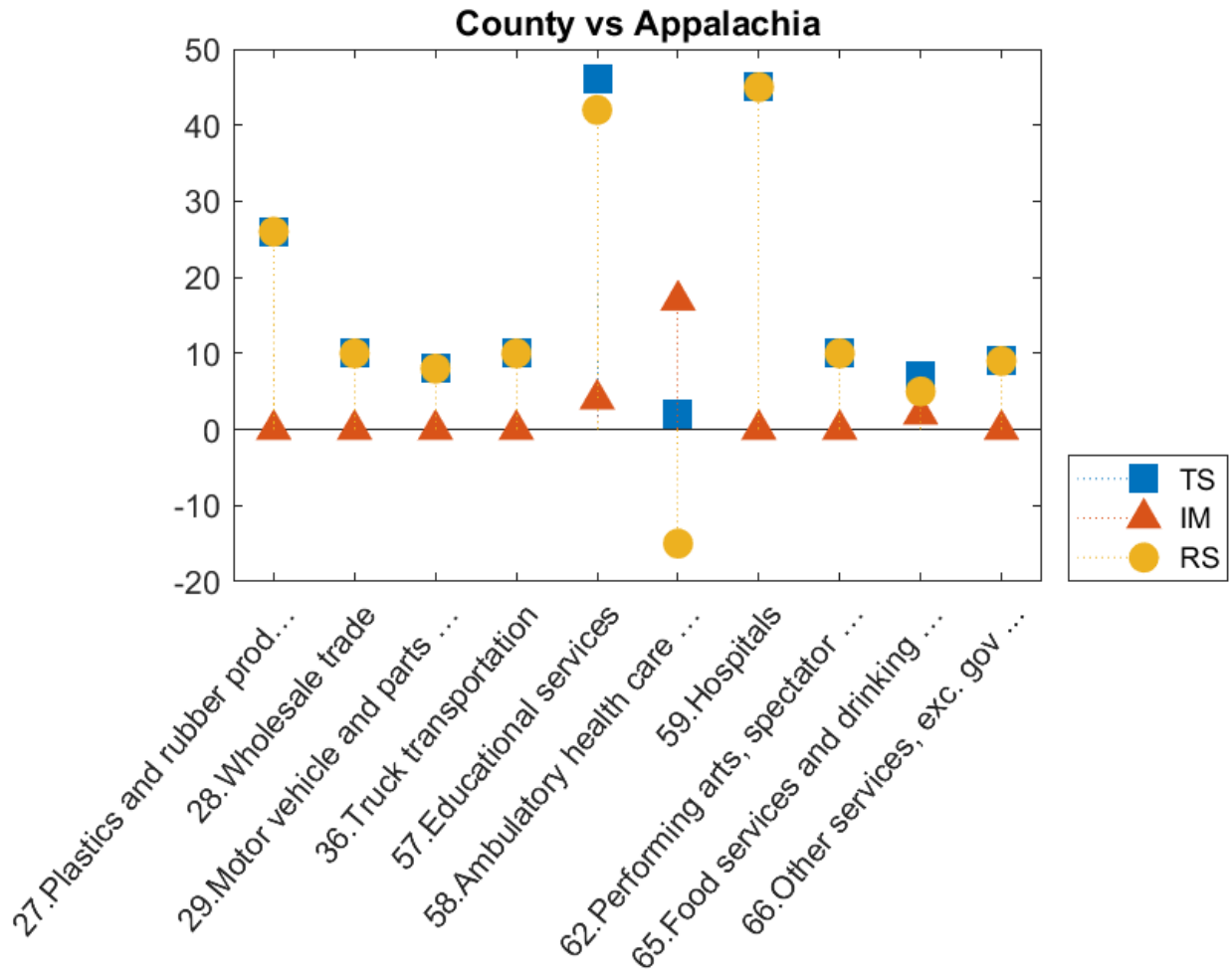


Chapter 21. Hancock County, Tennessee

Hancock County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|----|----|-----|--------------------|
| 27 | Plastics and rubber prod... | 0 | 26 | 0 | 26 | 26 |
| 28 | Wholesale trade | 0 | 10 | -0 | 10 | 11 |
| 29 | Motor vehicle and parts ... | 1 | 8 | -0 | 8 | 14 |
| 36 | Truck transportation | 0 | 10 | 0 | 10 | 10 |
| 57 | Educational services | 19 | 28 | -3 | 31 | 211 |
| 58 | Ambulatory health care | 6 | -4 | 18 | -22 | 54 |
| 59 | Hospitals | 0 | 45 | 0 | 45 | 45 |
| 62 | Performing arts, spectator ... | 0 | 10 | 0 | 10 | 10 |
| 65 | Food services and drinking ... | 1 | 6 | 2 | 4 | 16 |
| 66 | Other services, exc. gov ... | 1 | 9 | -0 | 9 | 14 |

Selected SSA Components for Hancock County, Tennessee vs the Appalachian Region

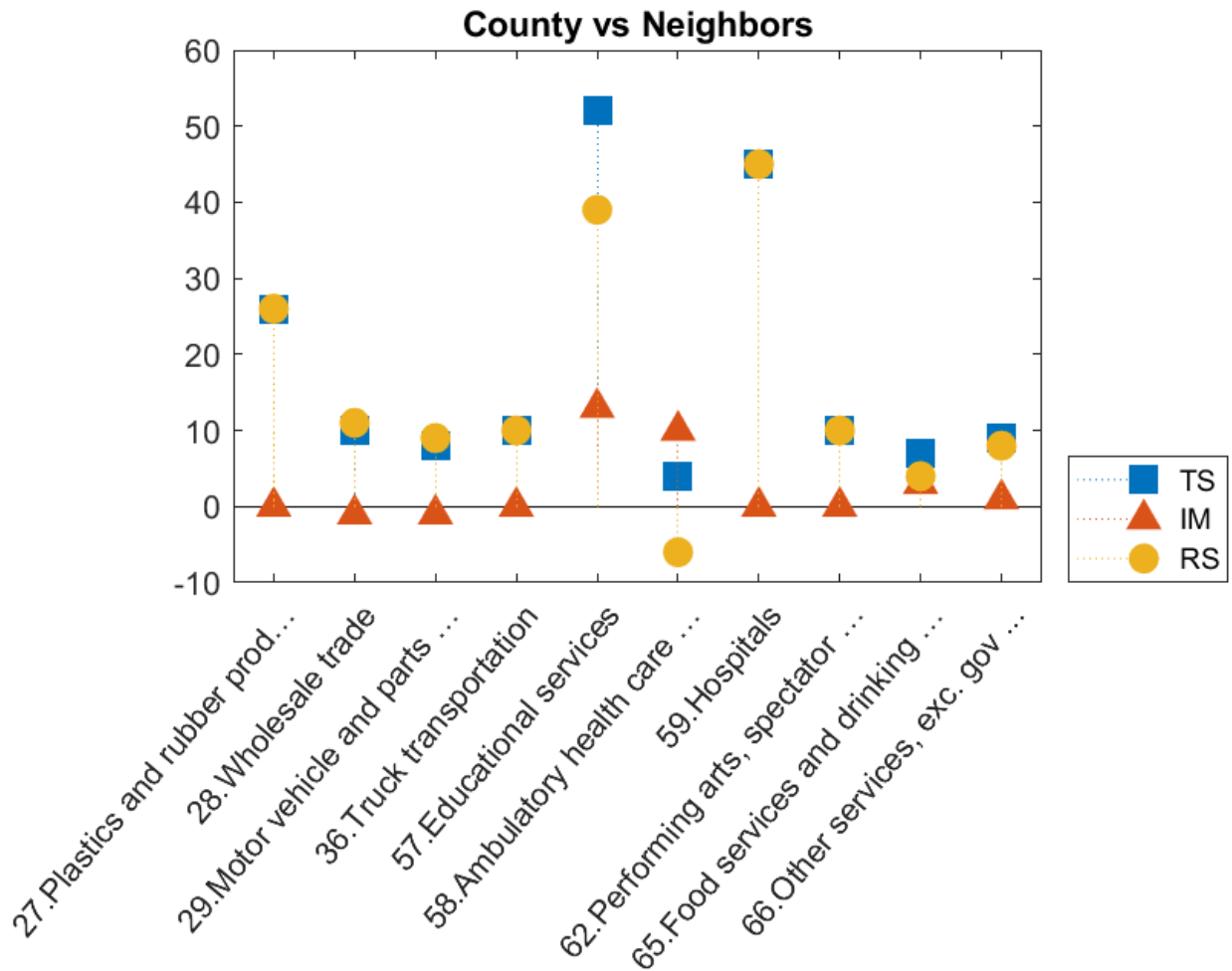


Chapter 21. Hancock County, Tennessee

Selected SSA Components for Hancock County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|----|----|-----|-----------------|
| 27 | Plastics and rubber prod... | 0 | 26 | 0 | 26 | 26 |
| 28 | Wholesale trade | 0 | 10 | -0 | 10 | 11 |
| 29 | Motor vehicle and parts ... | 0 | 8 | 0 | 8 | 14 |
| 36 | Truck transportation | 0 | 10 | 0 | 10 | 10 |
| 57 | Educational services | 1 | 46 | 4 | 42 | 211 |
| 58 | Ambulatory health care ... | 0 | 2 | 17 | -15 | 54 |
| 59 | Hospitals | 0 | 45 | 0 | 45 | 45 |
| 62 | Performing arts, spectator ... | 0 | 10 | 0 | 10 | 10 |
| 65 | Food services and drinking ... | 0 | 7 | 2 | 5 | 16 |
| 66 | Other services, exc. gov ... | 0 | 9 | -0 | 9 | 14 |

Selected SSA Components for Hancock County, Tennessee vs Neighbors



Chapter 21. Hancock County, Tennessee

Selected SSA Components for Hancock County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|----|----|----|-----------------|
| 27 | Plastics and rubber prod... | -0 | 26 | 0 | 26 | 26 |
| 28 | Wholesale trade | -0 | 10 | -1 | 11 | 11 |
| 29 | Motor vehicle and parts ... | -0 | 8 | -1 | 9 | 14 |
| 36 | Truck transportation | -0 | 10 | 0 | 10 | 10 |
| 57 | Educational services | -6 | 52 | 13 | 39 | 211 |
| 58 | Ambulatory health care ... | -2 | 4 | 10 | -6 | 54 |
| 59 | Hospitals | -0 | 45 | 0 | 45 | 45 |
| 62 | Performing arts, spectator ... | -0 | 10 | 0 | 10 | 10 |
| 65 | Food services and drinking ... | -0 | 7 | 3 | 4 | 16 |
| 66 | Other services, exc. gov ... | -0 | 9 | 1 | 8 | 14 |

Chapter 22. Hawkins County, Tennessee

Employment in Hawkins County, Tennessee, grew from 12,807 in 2005 to 12,865 in 2018, for a change of 58, or 0.45%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Hawkins County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 1,445 | -1,387 | -879 | -508 |
| vs. Appalachia | 40 | 19 | 58 | -39 |
| vs. Neighbors | -385 | 443 | -95 | 538 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Hawkins County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 22. Hawkins County, Tennessee

Industry Group Membership for Hawkins County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 08 | Construction | F III c iii | no | yes | yes | yes |
| 11 | Primary metals | F III c iii | no | yes | yes | yes |
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 18 | Furniture and related ... | F III c iii | no | yes | yes | yes |
| 21 | Textile mills and ... | D III c iii | no | yes | yes | yes |
| 26 | Chemical products | F III c iii | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D III a iii | no | yes | yes | yes |
| 36 | Truck transportation | F III c iii | no | yes | yes | yes |
| 55 | Administrative and ... | A V b ii | yes | no | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a iii | no | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c iii | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Hawkins County, Tennessee vs. the United States

Groups a, b, and c are from Hawkins County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Hawkins County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Hawkins County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Hawkins County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Hawkins County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Hawkins County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

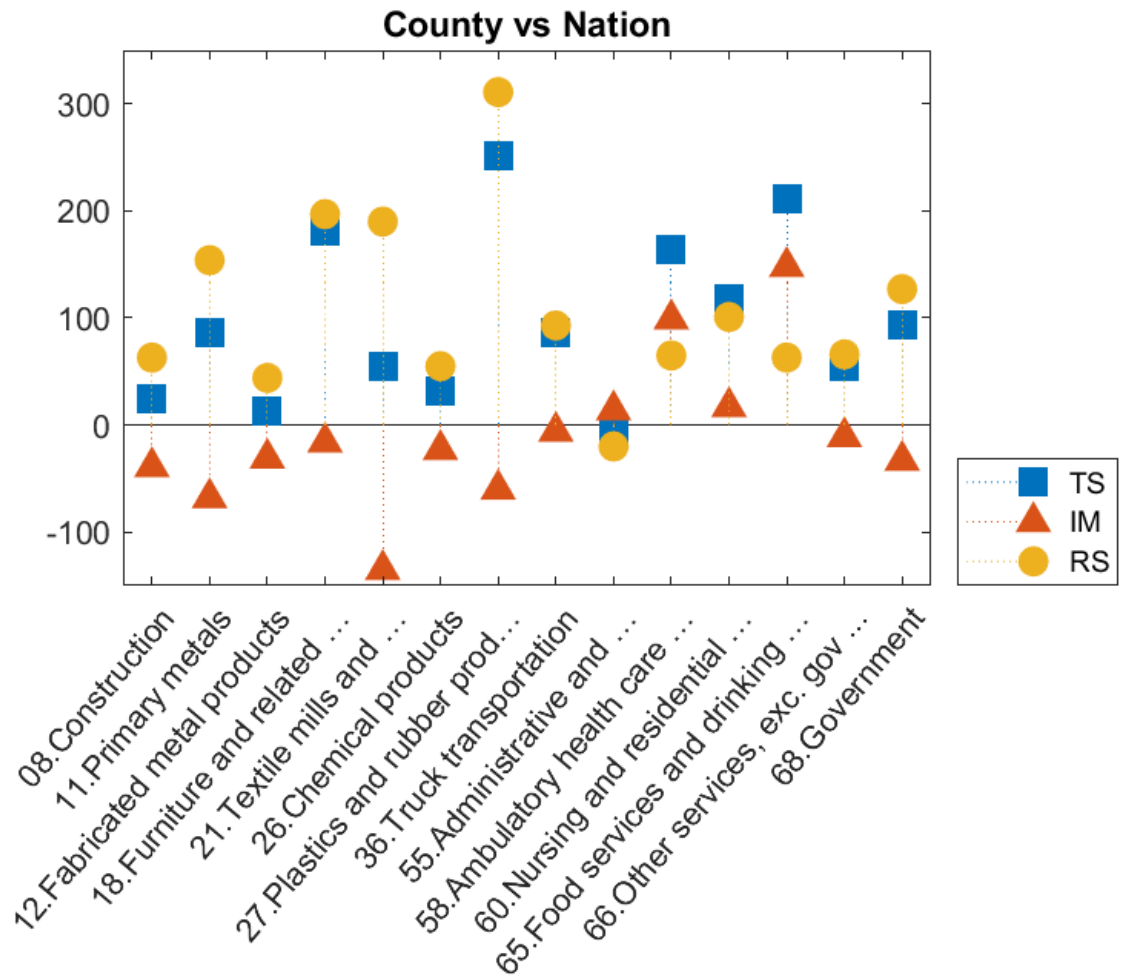
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Hawkins County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Hawkins County, Tennessee vs the U.S.

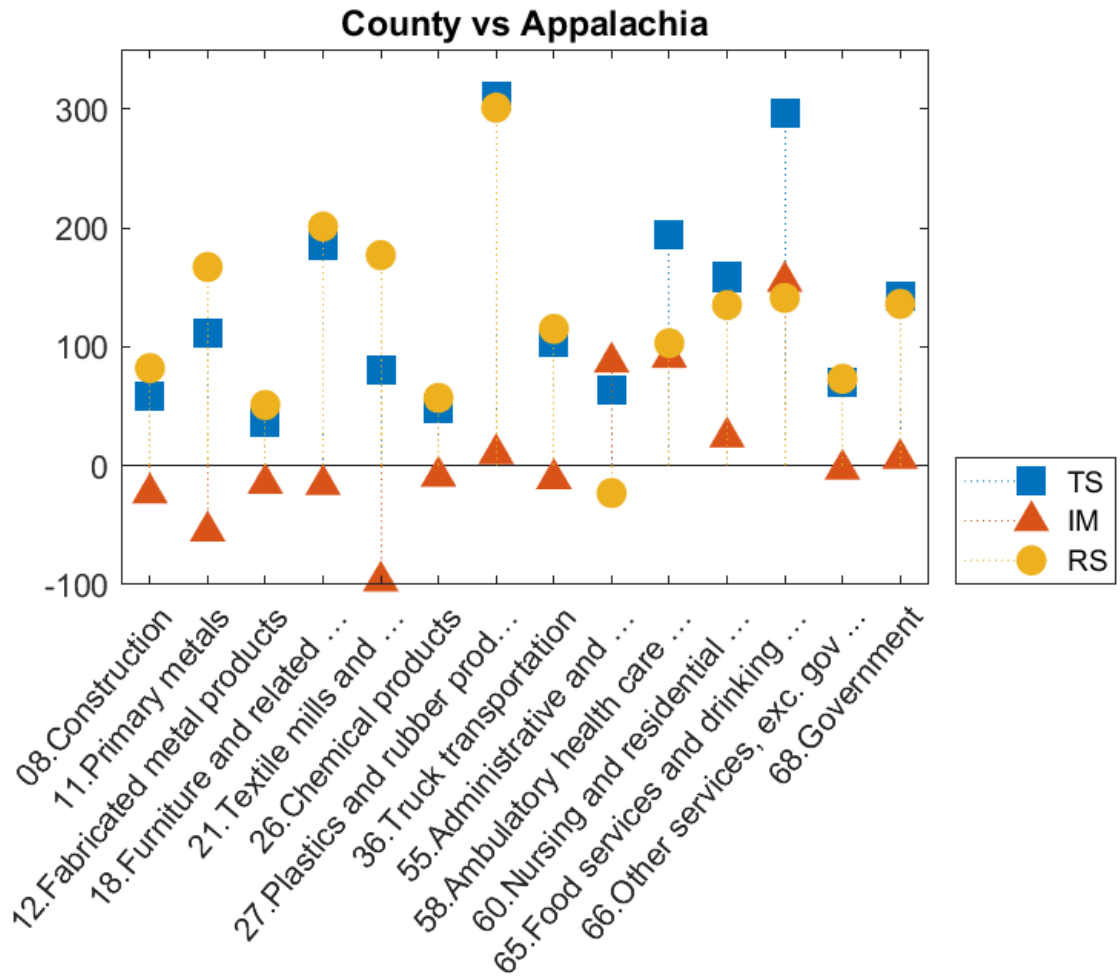


Chapter 22. Hawkins County, Tennessee

Hawkins County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|------|-----|--------------------|
| 08 | Construction | 36 | 24 | -39 | 63 | 383 |
| 11 | Primary metals | 26 | 86 | -68 | 154 | 341 |
| 12 | Fabricated metal products | 24 | 13 | -31 | 44 | 246 |
| 18 | Furniture and related ... | 4 | 181 | -16 | 197 | 225 |
| 21 | Textile mills and ... | 26 | 55 | -135 | 190 | 312 |
| 26 | Chemical products | 16 | 32 | -23 | 55 | 191 |
| 27 | Plastics and rubber prod... | 61 | 251 | -60 | 311 | 855 |
| 36 | Truck transportation | 18 | 87 | -6 | 93 | 267 |
| 55 | Administrative and ... | 72 | -6 | 14 | -20 | 703 |
| 58 | Ambulatory health care ... | 32 | 164 | 99 | 65 | 476 |
| 60 | Nursing and residential ... | 43 | 118 | 17 | 101 | 538 |
| 65 | Food services and drinking ... | 88 | 211 | 148 | 63 | 1,074 |
| 66 | Other services, exc. gov ... | 17 | 55 | -11 | 66 | 219 |
| 68 | Government | 49 | 94 | -33 | 127 | 581 |

Selected SSA Components for Hawkins County, Tennessee vs the Appalachian Region

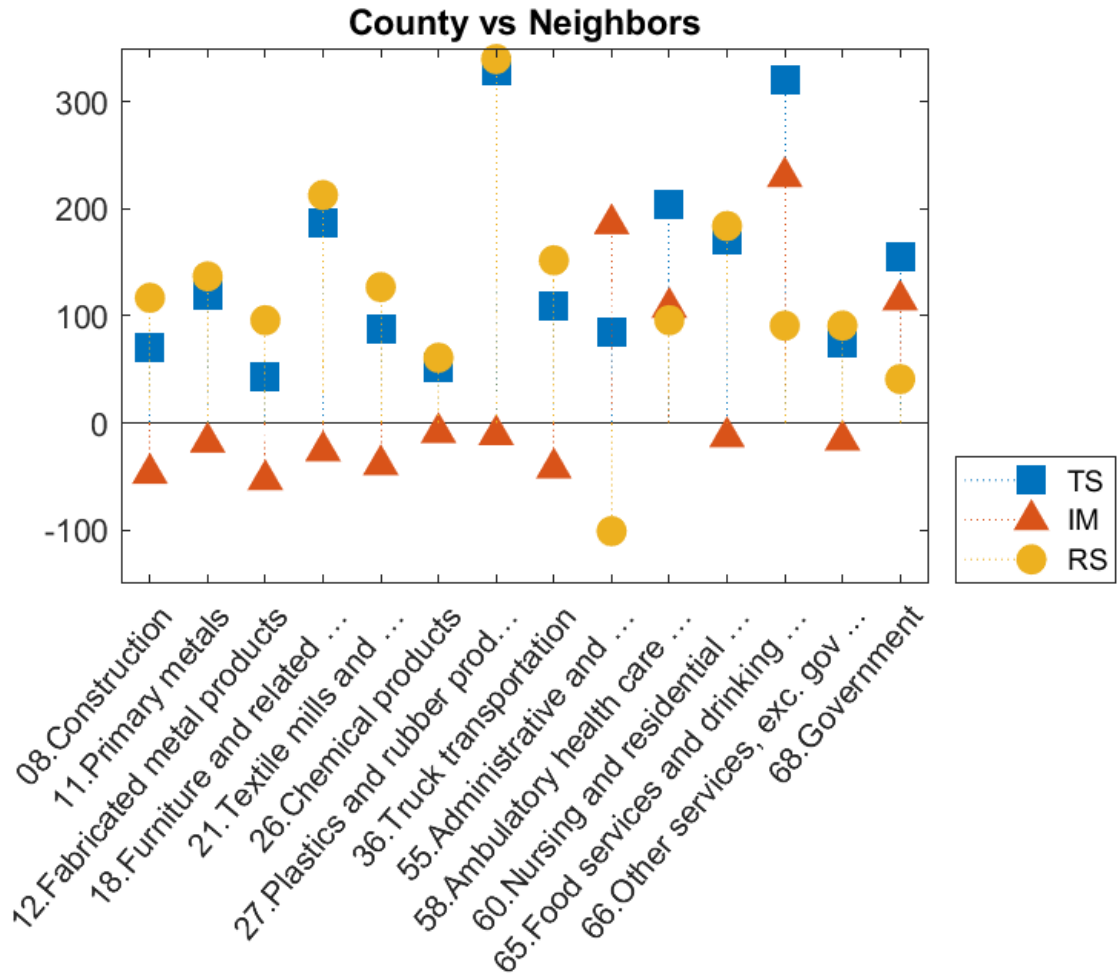


Chapter 22. Hawkins County, Tennessee

Selected SSA Components for Hawkins County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | 1 | 59 | -23 | 82 | 383 |
| 11 | Primary metals | 1 | 112 | -55 | 167 | 341 |
| 12 | Fabricated metal products | 1 | 36 | -15 | 51 | 246 |
| 18 | Furniture and related ... | 0 | 185 | -16 | 201 | 225 |
| 21 | Textile mills and ... | 1 | 80 | -97 | 177 | 312 |
| 26 | Chemical products | 0 | 48 | -9 | 57 | 191 |
| 27 | Plastics and rubber prod... | 2 | 311 | 10 | 301 | 855 |
| 36 | Truck transportation | 1 | 104 | -11 | 115 | 267 |
| 55 | Administrative and ... | 2 | 64 | 87 | -23 | 703 |
| 58 | Ambulatory health care ... | 1 | 194 | 91 | 103 | 476 |
| 60 | Nursing and residential ... | 1 | 159 | 24 | 135 | 538 |
| 65 | Food services and drinking ... | 3 | 296 | 155 | 141 | 1,074 |
| 66 | Other services, exc. gov ... | 1 | 70 | -3 | 73 | 219 |
| 68 | Government | 1 | 142 | 6 | 136 | 581 |

Selected SSA Components for Hawkins County, Tennessee vs Neighbors



Chapter 22. Hawkins County, Tennessee

Selected SSA Components for Hawkins County, Tennessee vs Neighbors for
Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-----|-----|------|--------------------|
| 08 | Construction | -10 | 70 | -47 | 117 | 383 |
| 11 | Primary metals | -7 | 119 | -18 | 137 | 341 |
| 12 | Fabricated metal products | -6 | 43 | -53 | 96 | 246 |
| 18 | Furniture and related ... | -1 | 187 | -26 | 213 | 225 |
| 21 | Textile mills and ... | -7 | 88 | -39 | 127 | 312 |
| 26 | Chemical products | -4 | 52 | -9 | 61 | 191 |
| 27 | Plastics and rubber prod... | -16 | 329 | -11 | 340 | 855 |
| 36 | Truck transportation | -5 | 110 | -42 | 152 | 267 |
| 55 | Administrative and ... | -19 | 85 | 186 | -101 | 703 |
| 58 | Ambulatory health care ... | -9 | 204 | 108 | 96 | 476 |
| 60 | Nursing and residential ... | -11 | 171 | -13 | 184 | 538 |
| 65 | Food services and drinking ... | -24 | 321 | 230 | 91 | 1,074 |
| 66 | Other services, exc. gov ... | -4 | 75 | -16 | 91 | 219 |
| 68 | Government | -13 | 156 | 115 | 41 | 581 |

Chapter 23. Jackson County, Tennessee

Employment in Jackson County, Tennessee, declined from 1,924 in 2005 to 1,404 in 2018, for a change of -520, or -27.03%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Jackson County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 214 | -738 | -105 | -633 |
| vs. Appalachia | 3 | -525 | 72 | -597 |
| vs. Neighbors | 135 | -654 | -23 | -631 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Jackson County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 23. Jackson County, Tennessee

Industry Group Membership for Jackson County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|--------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 15 | Electrical equipment, ... | D I a i | no | yes | yes | yes |
| 20 | Food and beverage ... | E I a i | no | yes | yes | yes |
| 31 | General merchandise ... | F III a iii | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a i | yes | yes | yes | yes |
| 54 | Management of companies ... | A V b v | yes | no | yes | no |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III a i | no | yes | yes | yes |
| 68 | Government | F III a ii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Jackson County, Tennessee vs. the United States

Groups a, b, and c are from Jackson County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Jackson County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Jackson County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Jackson County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Jackson County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Jackson County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

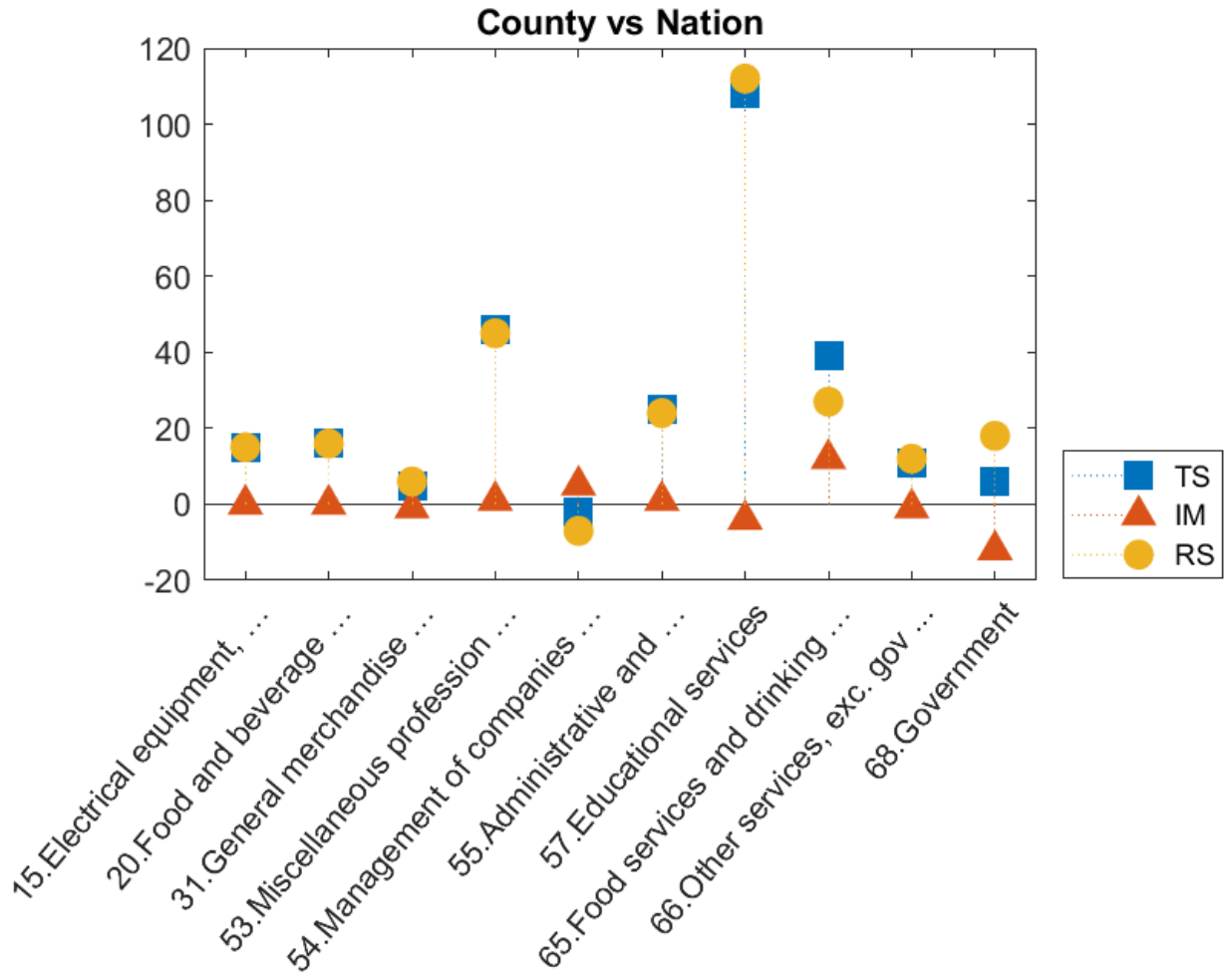
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Jackson County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Jackson County, Tennessee vs the U.S.

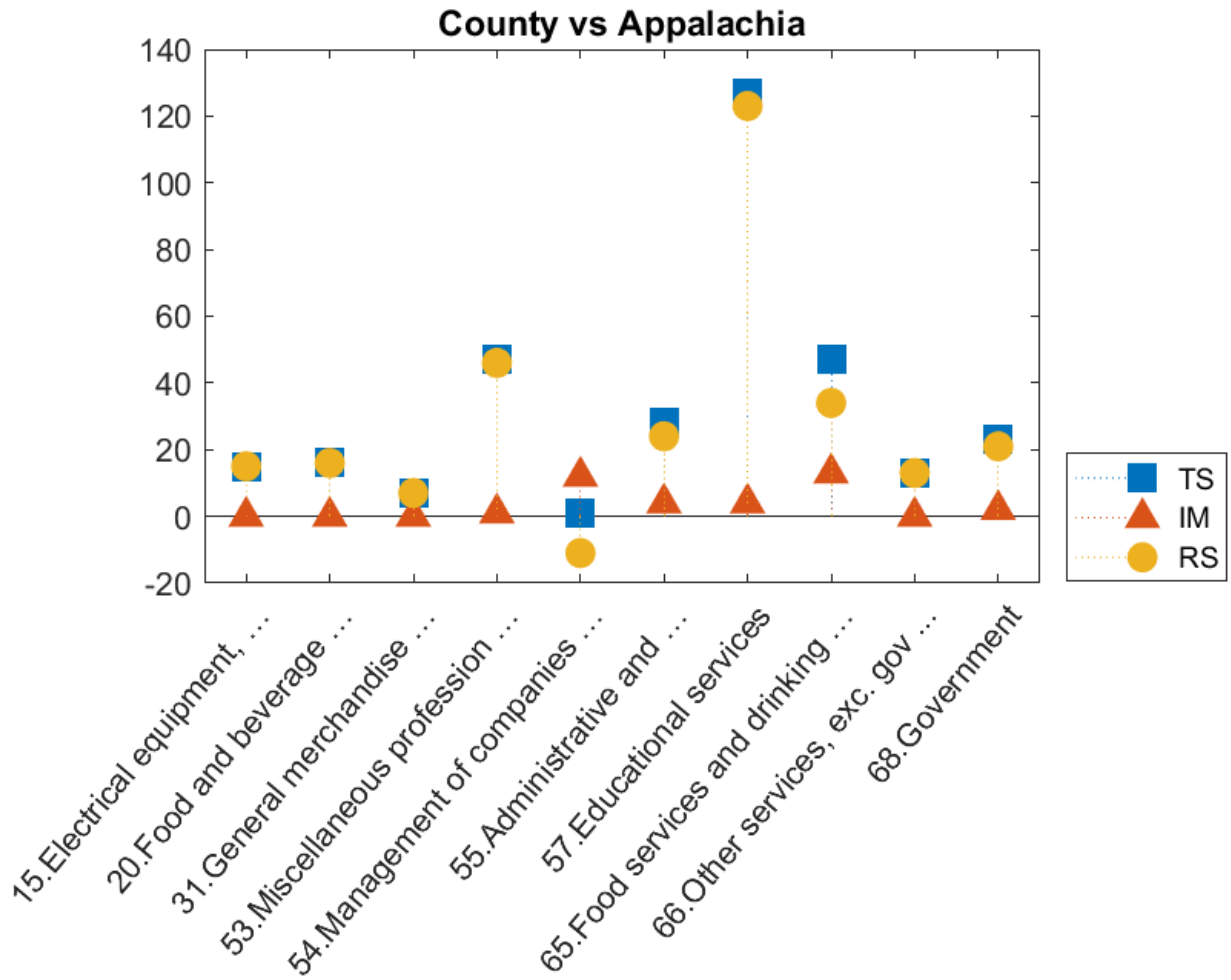


Chapter 23. Jackson County, Tennessee

Jackson County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 15 | Electrical equipment, ... | 0 | 15 | 0 | 15 | 15 |
| 20 | Food and beverage ... | 0 | 16 | 0 | 16 | 16 |
| 31 | General merchandise ... | 1 | 5 | -1 | 6 | 18 |
| 53 | Miscellaneous profession ... | 0 | 46 | 1 | 45 | 51 |
| 54 | Management of companies ... | 3 | -2 | 5 | -7 | 23 |
| 55 | Administrative and ... | 3 | 25 | 1 | 24 | 54 |
| 57 | Educational services | 19 | 108 | -4 | 112 | 299 |
| 65 | Food services and drinking ... | 7 | 39 | 12 | 27 | 112 |
| 66 | Other services, exc. gov ... | 2 | 11 | -1 | 12 | 29 |
| 68 | Government | 18 | 6 | -12 | 18 | 185 |

Selected SSA Components for Jackson County, Tennessee vs the Appalachian Region

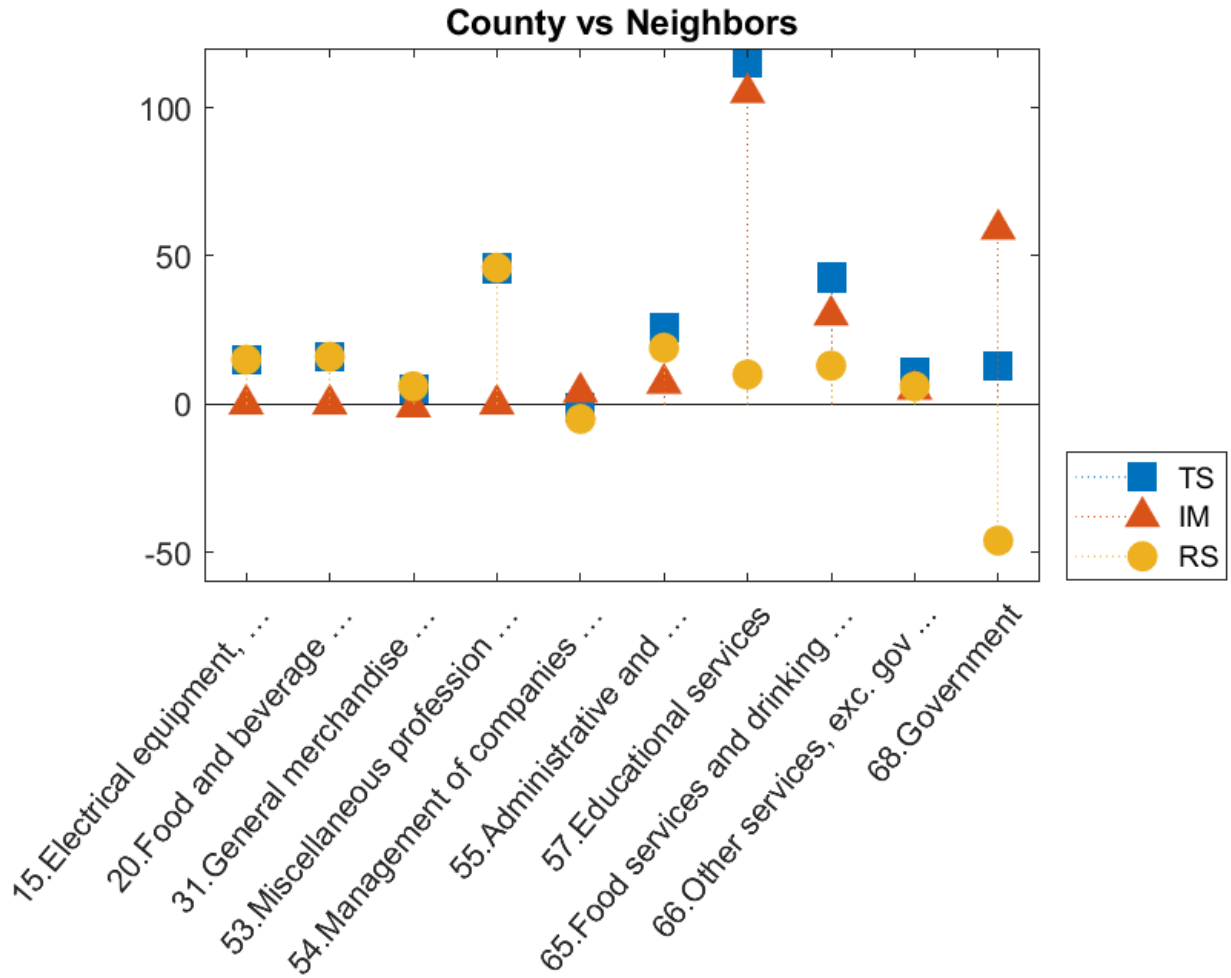


Chapter 23. Jackson County, Tennessee

Selected SSA Components for Jackson County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|----|-----|-----------------|
| 15 | Electrical equipment, ... | 0 | 15 | 0 | 15 | 15 |
| 20 | Food and beverage ... | 0 | 16 | 0 | 16 | 16 |
| 31 | General merchandise ... | 0 | 7 | -0 | 7 | 18 |
| 53 | Miscellaneous profession ... | 0 | 47 | 1 | 46 | 51 |
| 54 | Management of companies ... | 0 | 1 | 12 | -11 | 23 |
| 55 | Administrative and ... | 0 | 28 | 4 | 24 | 54 |
| 57 | Educational services | 1 | 127 | 4 | 123 | 299 |
| 65 | Food services and drinking ... | 0 | 47 | 13 | 34 | 112 |
| 66 | Other services, exc. gov ... | 0 | 13 | -0 | 13 | 29 |
| 68 | Government | 1 | 23 | 2 | 21 | 185 |

Selected SSA Components for Jackson County, Tennessee vs Neighbors



Chapter 23. Jackson County, Tennessee

Selected SSA Components for Jackson County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|-----------------|
| 15 | Electrical equipment, ... | 0 | 15 | 0 | 15 | 15 |
| 20 | Food and beverage ... | 0 | 16 | 0 | 16 | 16 |
| 31 | General merchandise ... | 1 | 5 | -1 | 6 | 18 |
| 53 | Miscellaneous profession ... | 0 | 46 | 0 | 46 | 51 |
| 54 | Management of companies ... | 2 | -1 | 4 | -5 | 23 |
| 55 | Administrative and ... | 2 | 26 | 7 | 19 | 54 |
| 57 | Educational services | 12 | 115 | 105 | 10 | 299 |
| 65 | Food services and drinking ... | 5 | 43 | 30 | 13 | 112 |
| 66 | Other services, exc. gov ... | 1 | 11 | 5 | 6 | 29 |
| 68 | Government | 11 | 13 | 59 | -46 | 185 |

Chapter 24. Jefferson County, Tennessee

Employment in Jefferson County, Tennessee, grew from 11,267 in 2005 to 13,114 in 2018, for a change of 1,847, or 16.39%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Jefferson County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 1,270 | 578 | -904 | 1,482 |
| vs. Appalachia | 39 | 1,807 | -644 | 2,451 |
| vs. Neighbors | 794 | 1,051 | -627 | 1,678 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Jefferson County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 24. Jefferson County, Tennessee

Industry Group Membership for Jefferson County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 05 | Mining, except coal, oil ... | F III c i | no | yes | yes | yes |
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C I a i | yes | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 32 | Other retail | F III c iii | no | yes | yes | yes |
| 36 | Truck transportation | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B II a iii | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c iii | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Jefferson County, Tennessee vs. the United States

Groups a, b, and c are from Jefferson County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Jefferson County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Jefferson County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Jefferson County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Jefferson County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Jefferson County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

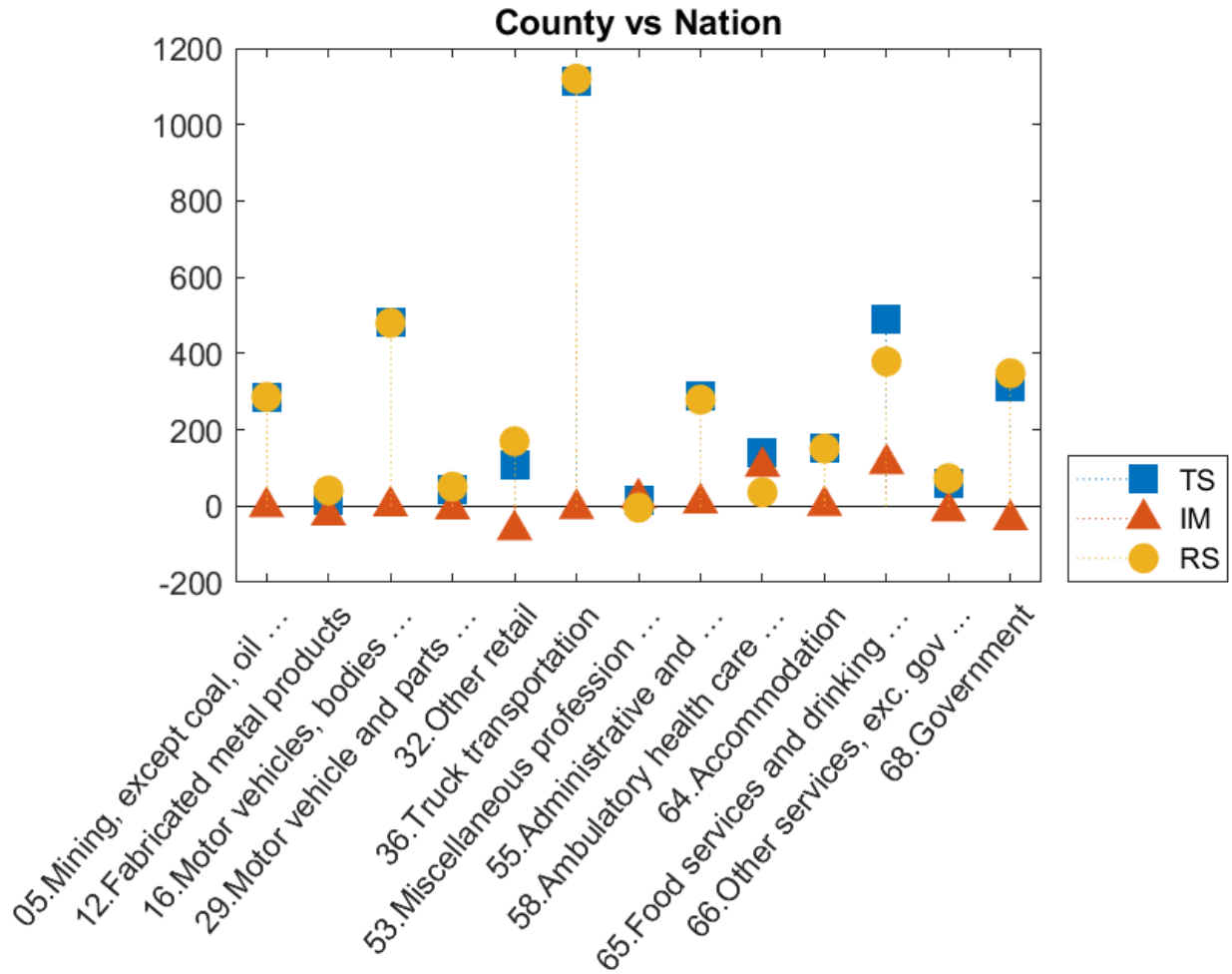
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Jefferson County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Jefferson County, Tennessee vs the U.S.

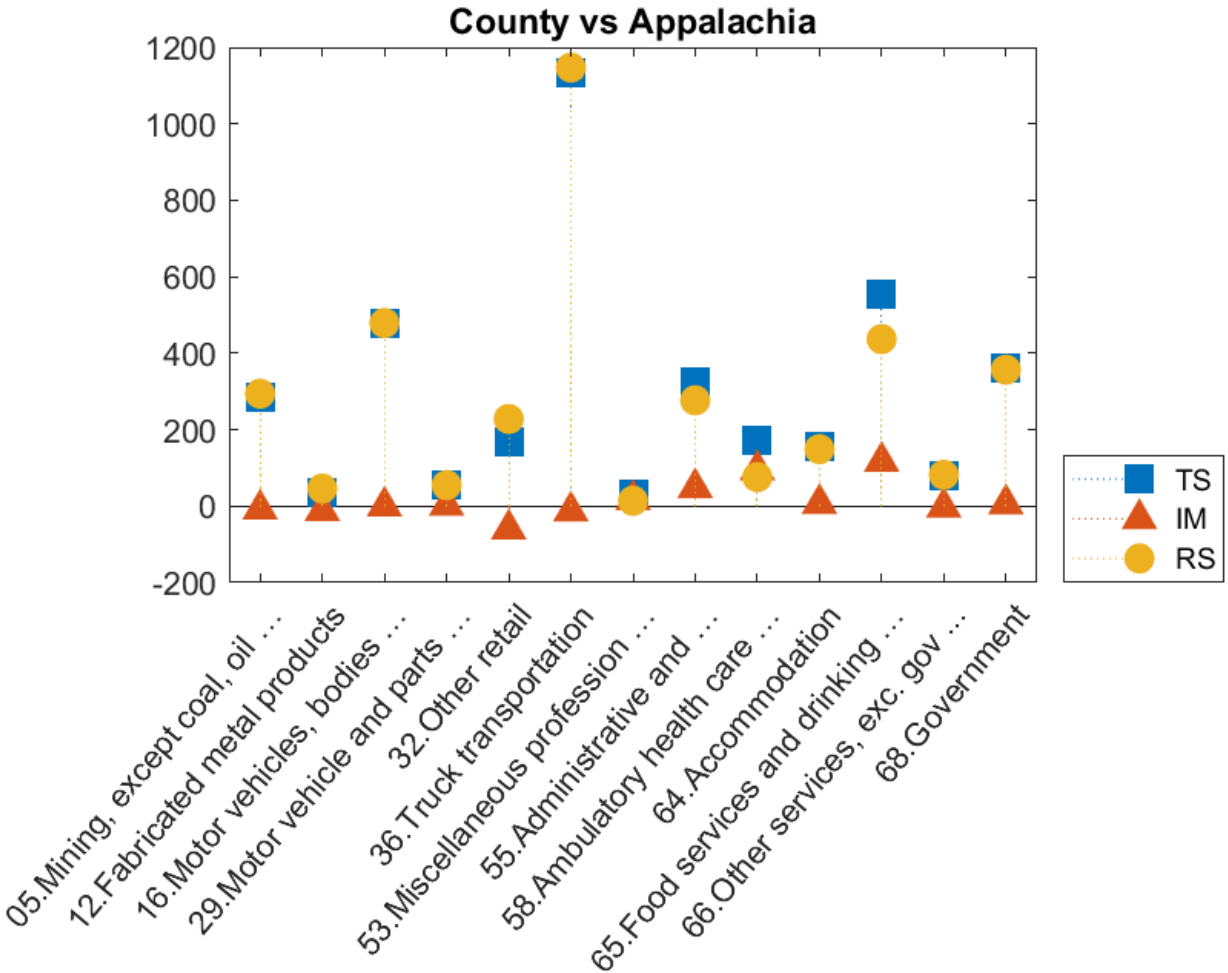


Chapter 24. Jefferson County, Tennessee

Jefferson County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-----|-------|--------------------|
| 05 | Mining, except coal, oil ... | 2 | 284 | -2 | 286 | 306 |
| 12 | Fabricated metal products | 18 | 17 | -24 | 41 | 199 |
| 16 | Motor vehicles, bodies ... | 0 | 480 | -0 | 480 | 481 |
| 29 | Motor vehicle and parts ... | 15 | 43 | -8 | 51 | 191 |
| 32 | Other retail | 62 | 108 | -62 | 170 | 722 |
| 36 | Truck transportation | 22 | 1,113 | -7 | 1,120 | 1,330 |
| 53 | Miscellaneous profession ... | 14 | 17 | 21 | -4 | 155 |
| 55 | Administrative and ... | 40 | 287 | 8 | 279 | 678 |
| 58 | Ambulatory health care ... | 33 | 140 | 104 | 36 | 468 |
| 64 | Accommodation | 4 | 152 | 1 | 151 | 191 |
| 65 | Food services and drinking ... | 66 | 490 | 111 | 379 | 1,140 |
| 66 | Other services, exc. gov ... | 19 | 60 | -13 | 73 | 248 |
| 68 | Government | 53 | 312 | -36 | 348 | 834 |

Selected SSA Components for Jefferson County, Tennessee vs the Appalachian Region

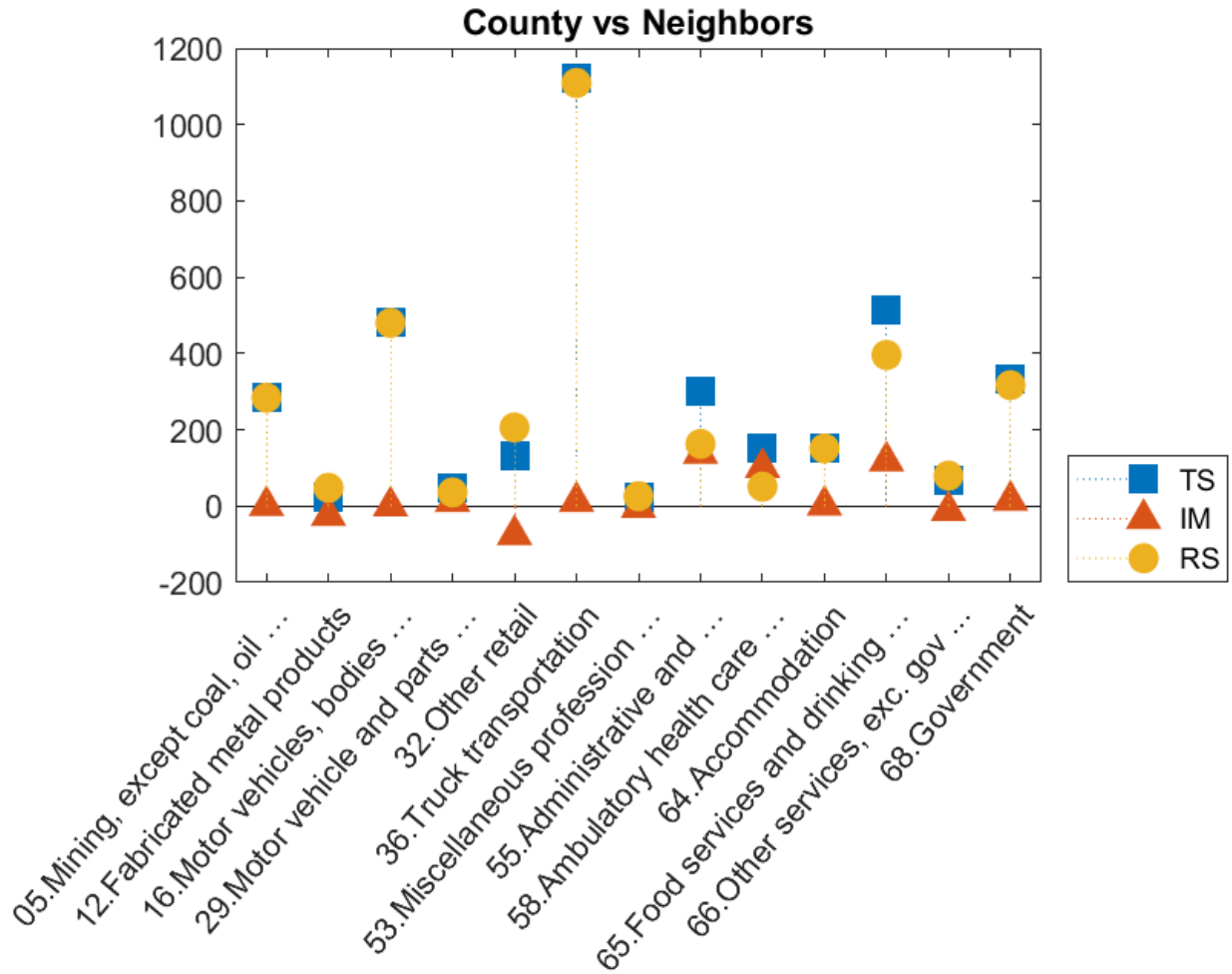


Chapter 24. Jefferson County, Tennessee

Selected SSA Components for Jefferson County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-----|-------|--------------------|
| 05 | Mining, except coal, oil ... | 0 | 286 | -8 | 294 | 306 |
| 12 | Fabricated metal products | 1 | 34 | -12 | 46 | 199 |
| 16 | Motor vehicles, bodies ... | 0 | 479 | 0 | 479 | 481 |
| 29 | Motor vehicle and parts ... | 0 | 57 | 2 | 55 | 191 |
| 32 | Other retail | 2 | 168 | -60 | 228 | 722 |
| 36 | Truck transportation | 1 | 1,134 | -13 | 1,147 | 1,330 |
| 53 | Miscellaneous profession ... | 0 | 31 | 17 | 14 | 155 |
| 55 | Administrative and ... | 1 | 325 | 48 | 277 | 678 |
| 58 | Ambulatory health care ... | 1 | 171 | 95 | 76 | 468 |
| 64 | Accommodation | 0 | 156 | 7 | 149 | 191 |
| 65 | Food services and drinking ... | 2 | 554 | 117 | 437 | 1,140 |
| 66 | Other services, exc. gov ... | 1 | 79 | -3 | 82 | 248 |
| 68 | Government | 2 | 363 | 6 | 357 | 834 |

Selected SSA Components for Jefferson County, Tennessee vs Neighbors



Chapter 24. Jefferson County, Tennessee

Selected SSA Components for Jefferson County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-----|-------|--------------------|
| 05 | Mining, except coal, oil ... | 1 | 285 | 1 | 284 | 306 |
| 12 | Fabricated metal products | 12 | 23 | -25 | 48 | 199 |
| 16 | Motor vehicles, bodies ... | 0 | 480 | 0 | 480 | 481 |
| 29 | Motor vehicle and parts ... | 9 | 48 | 12 | 36 | 191 |
| 32 | Other retail | 39 | 131 | -75 | 206 | 722 |
| 36 | Truck transportation | 14 | 1,121 | 12 | 1,109 | 1,330 |
| 53 | Miscellaneous profession ... | 9 | 22 | -4 | 26 | 155 |
| 55 | Administrative and ... | 25 | 301 | 138 | 163 | 678 |
| 58 | Ambulatory health care ... | 21 | 152 | 101 | 51 | 468 |
| 64 | Accommodation | 2 | 153 | 2 | 151 | 191 |
| 65 | Food services and drinking ... | 41 | 514 | 118 | 396 | 1,140 |
| 66 | Other services, exc. gov ... | 12 | 68 | -12 | 80 | 248 |
| 68 | Government | 33 | 332 | 15 | 317 | 834 |

Chapter 25. Johnson County, Tennessee

Employment in Johnson County, Tennessee, declined from 4,953 in 2005 to 4,239 in 2018, for a change of -714, or -14.42%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Johnson County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 560 | -1,271 | -336 | -935 |
| vs. Appalachia | 13 | -733 | -344 | -389 |
| vs. Neighbors | -208 | -507 | -214 | -293 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Johnson County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 25. Johnson County, Tennessee

Industry Group Membership for Johnson County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 19 | Miscellaneous manufac ... | F III c i | no | yes | yes | yes |
| 26 | Chemical products | F III c iii | no | yes | yes | yes |
| 36 | Truck transportation | F III c iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Johnson County, Tennessee vs. the United States

Groups a, b, and c are from Johnson County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Johnson County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Johnson County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Johnson County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Johnson County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Johnson County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

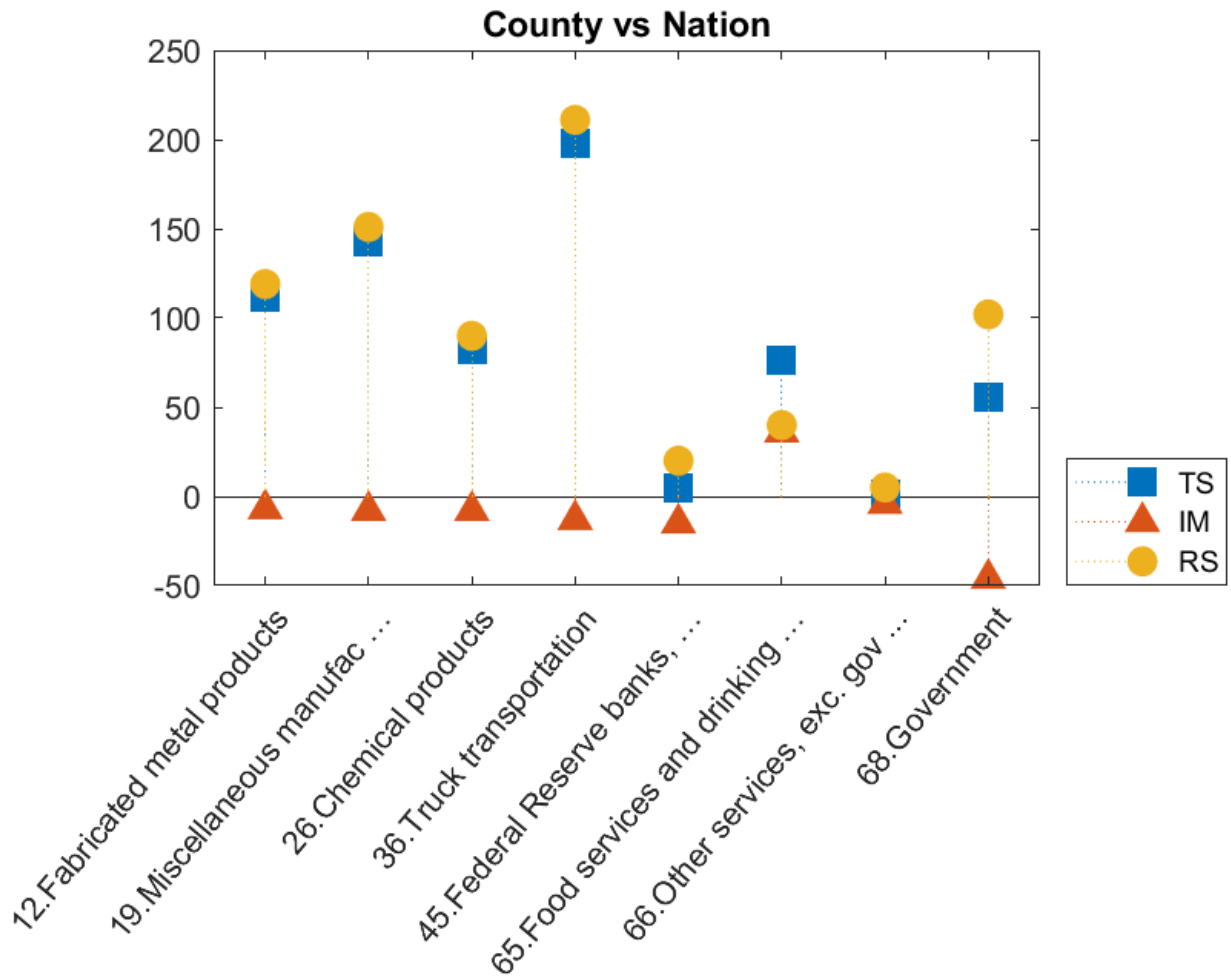
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Johnson County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Johnson County, Tennessee vs the U.S.

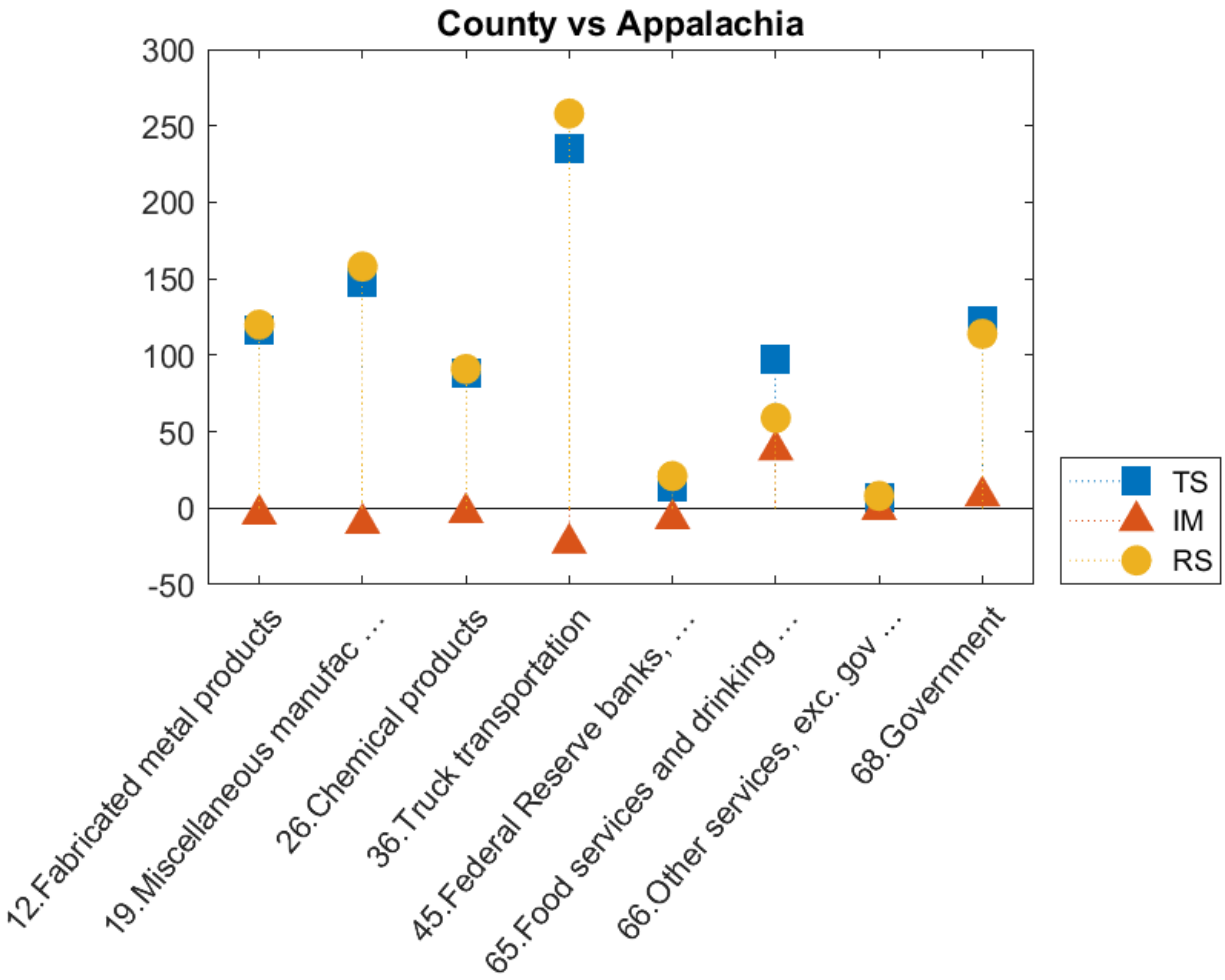


Chapter 25. Johnson County, Tennessee

Johnson County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 12 | Fabricated metal products | 6 | 112 | -7 | 119 | 167 |
| 19 | Miscellaneous manufac ... | 5 | 143 | -8 | 151 | 196 |
| 26 | Chemical products | 6 | 82 | -8 | 90 | 139 |
| 36 | Truck transportation | 39 | 198 | -13 | 211 | 585 |
| 45 | Federal Reserve banks, ... | 9 | 5 | -15 | 20 | 91 |
| 65 | Food services and drinking ... | 21 | 76 | 36 | 40 | 286 |
| 66 | Other services, exc. gov ... | 5 | 1 | -4 | 5 | 54 |
| 68 | Government | 68 | 56 | -46 | 102 | 726 |

Selected SSA Components for Johnson County, Tennessee vs the Appalachian Region

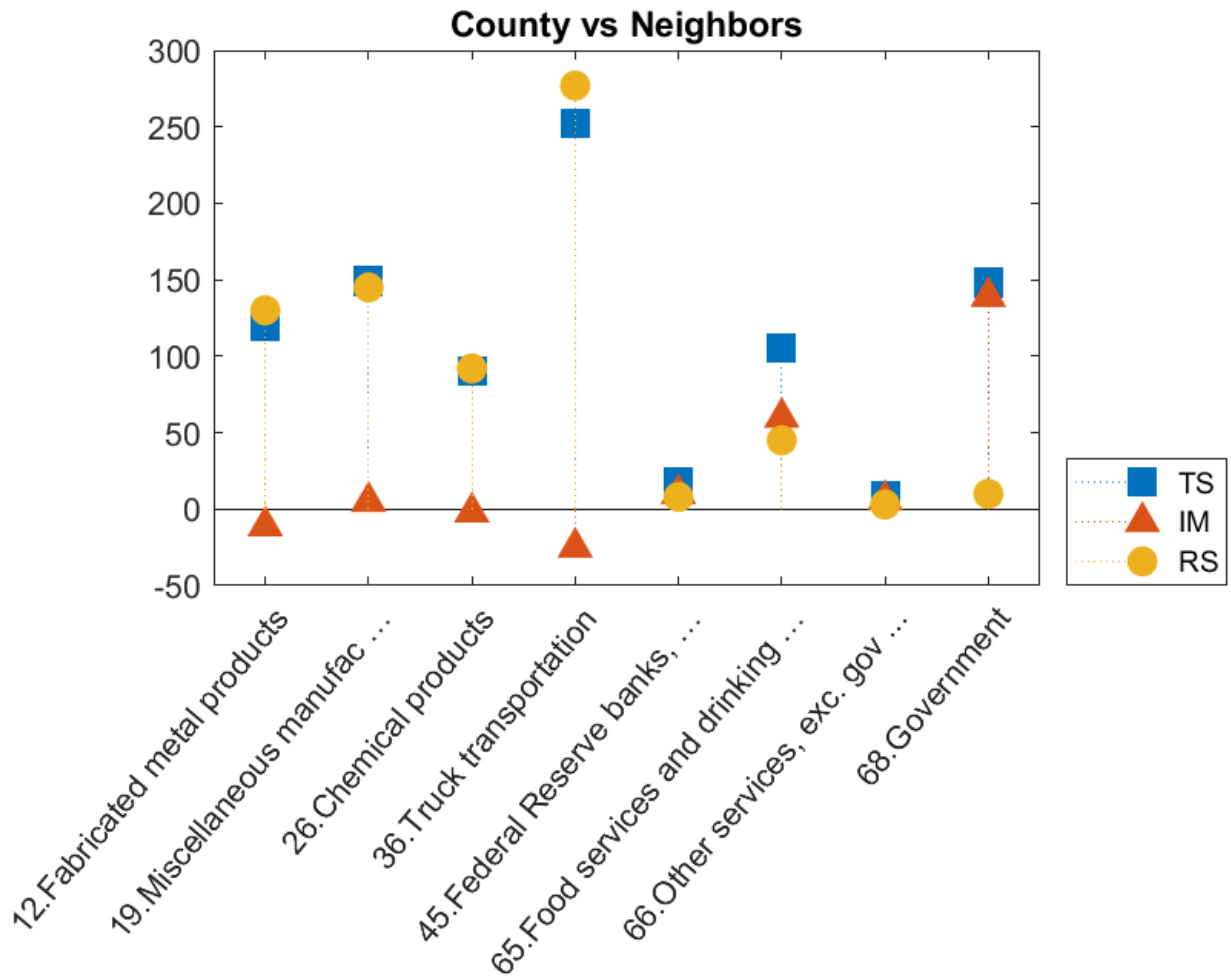


Chapter 25. Johnson County, Tennessee

Selected SSA Components for Johnson County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 12 | Fabricated metal products | 0 | 116 | -4 | 120 | 167 |
| 19 | Miscellaneous manufac ... | 0 | 148 | -10 | 158 | 196 |
| 26 | Chemical products | 0 | 88 | -3 | 91 | 139 |
| 36 | Truck transportation | 1 | 235 | -23 | 258 | 585 |
| 45 | Federal Reserve banks, ... | 0 | 14 | -7 | 21 | 91 |
| 65 | Food services and drinking ... | 1 | 97 | 38 | 59 | 286 |
| 66 | Other services, exc. gov ... | 0 | 7 | -1 | 8 | 54 |
| 68 | Government | 2 | 122 | 8 | 114 | 726 |

Selected SSA Components for Johnson County, Tennessee vs Neighbors



Chapter 25. Johnson County, Tennessee

Selected SSA Components for Johnson County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|-----|-----|-----------------|
| 12 | Fabricated metal products | -2 | 119 | -11 | 130 | 167 |
| 19 | Miscellaneous manufac ... | -2 | 150 | 5 | 145 | 196 |
| 26 | Chemical products | -2 | 90 | -2 | 92 | 139 |
| 36 | Truck transportation | -15 | 252 | -25 | 277 | 585 |
| 45 | Federal Reserve banks, ... | -3 | 18 | 10 | 8 | 91 |
| 65 | Food services and drinking ... | -8 | 105 | 60 | 45 | 286 |
| 66 | Other services, exc. gov ... | -2 | 9 | 6 | 3 | 54 |
| 68 | Government | -25 | 149 | 139 | 10 | 726 |

Chapter 26. Knox County, Tennessee

Employment in Knox County, Tennessee, grew from 221,989 in 2005 to 239,197 in 2018, for a change of 17,208, or 7.75%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Knox County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|--------|--------|-------|--------|
| vs. U.S. | 25,032 | -7,818 | 2,122 | -9,940 |
| vs. Appalachia | 756 | 16,452 | 4,418 | 12,034 |
| vs. Neighbors | 21,239 | -4,034 | 226 | -4,260 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Knox County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 26. Knox County, Tennessee

Industry Group Membership for Knox County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|--------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 20 | Food and beverage ... | E I c i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c ii | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B V b v | yes | no | yes | no |
| 54 | Management of companies ... | A I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a ii | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II b ii | yes | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Knox County, Tennessee vs. the United States

Groups a, b, and c are from Knox County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Knox County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Knox County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Knox County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Knox County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Knox County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

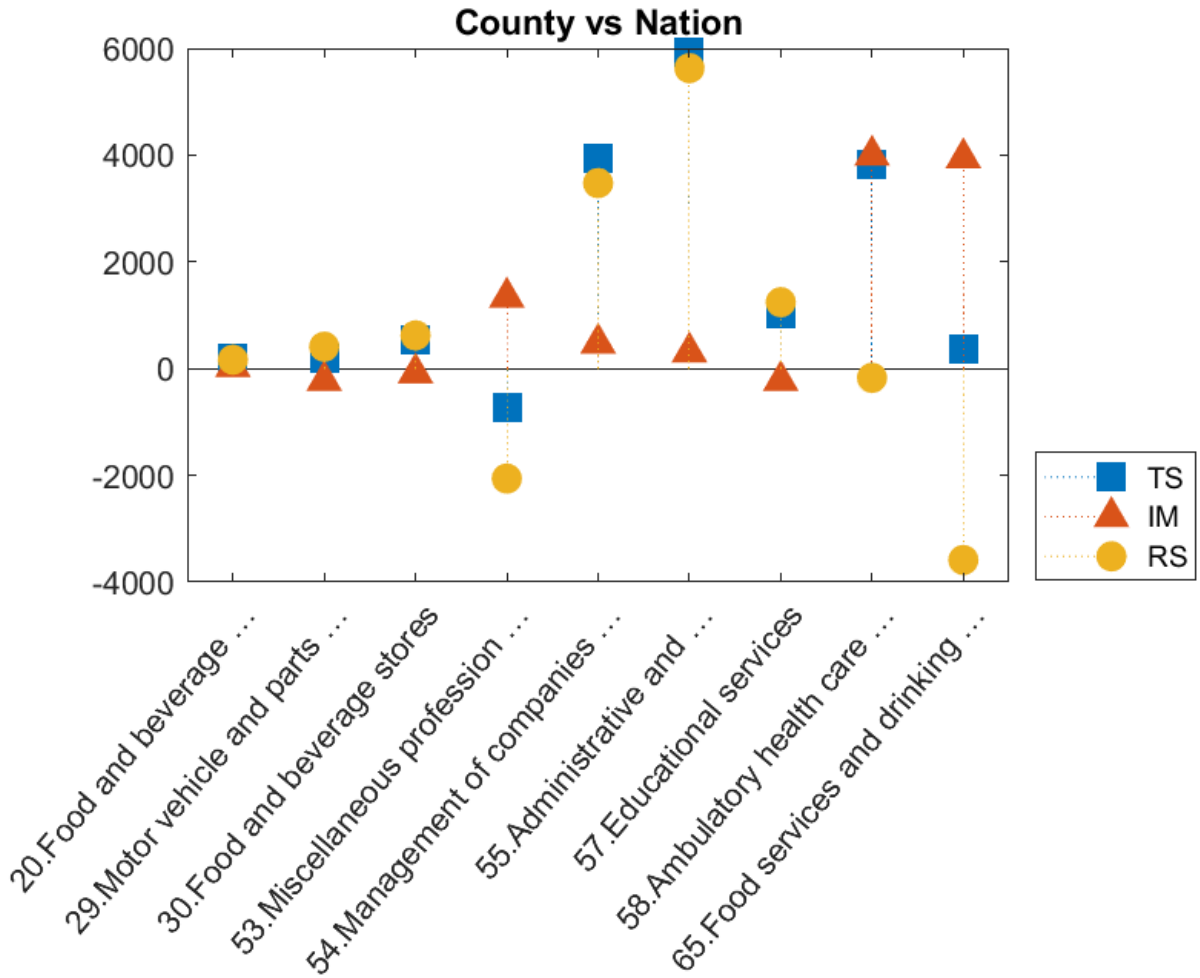
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Knox County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Knox County, Tennessee vs the U.S.

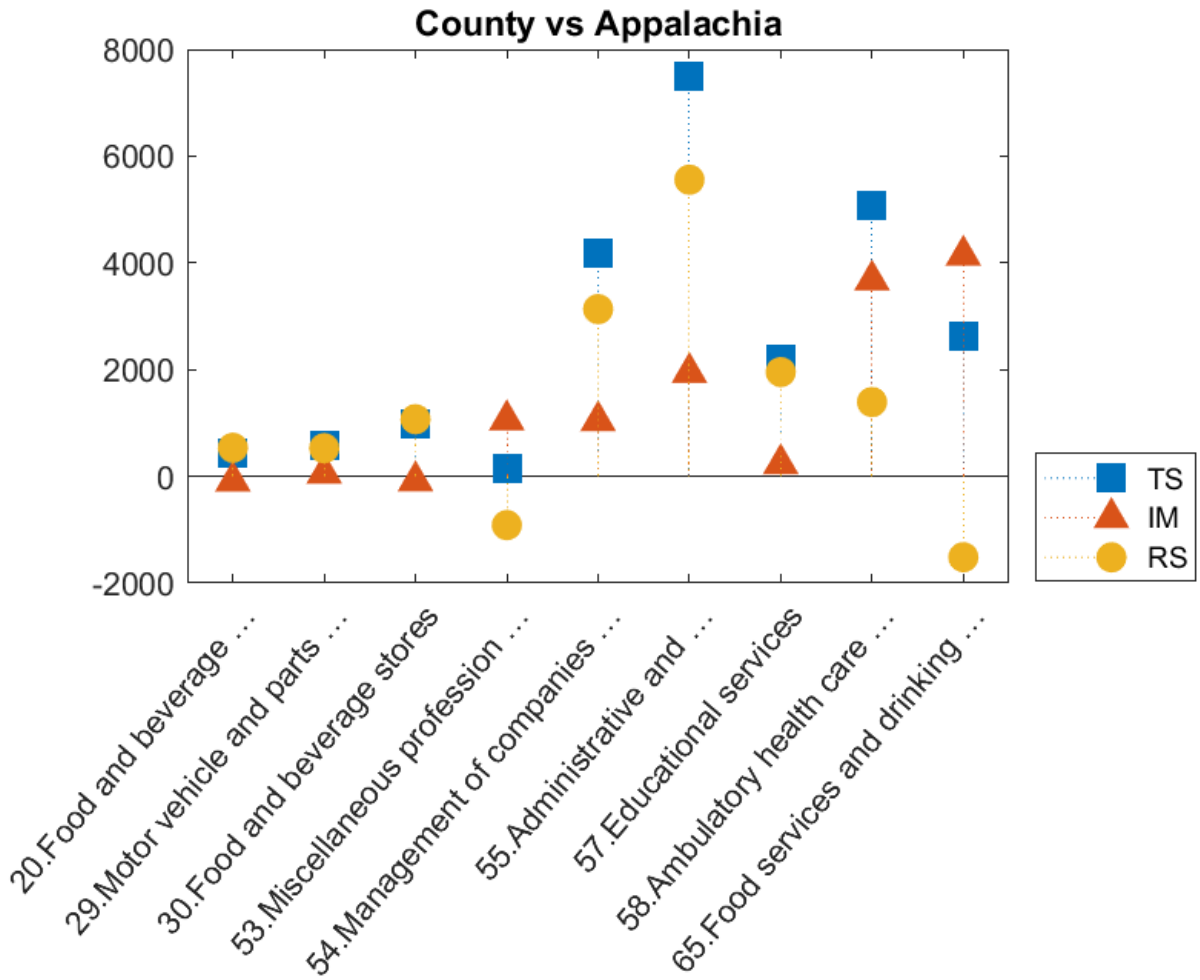


Chapter 26. Knox County, Tennessee

Knox County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-------|-------|-------|--------|--------------------|
| 20 | Food and beverage ... | 253 | 201 | 35 | 166 | 2,700 |
| 29 | Motor vehicle and parts ... | 413 | 185 | -225 | 410 | 4,259 |
| 30 | Food and beverage stores | 458 | 540 | -82 | 622 | 5,055 |
| 53 | Miscellaneous profession ... | 892 | -723 | 1,337 | -2,060 | 8,082 |
| 54 | Management of companies ... | 229 | 3,952 | 476 | 3,476 | 6,208 |
| 55 | Administrative and ... | 1,611 | 5,939 | 310 | 5,629 | 21,839 |
| 57 | Educational services | 1,206 | 1,018 | -225 | 1,243 | 12,922 |
| 58 | Ambulatory health care ... | 1,285 | 3,823 | 3,996 | -173 | 16,497 |
| 65 | Food services and drinking ... | 2,335 | 361 | 3,948 | -3,587 | 23,406 |

Selected SSA Components for Knox County, Tennessee vs the Appalachian Region

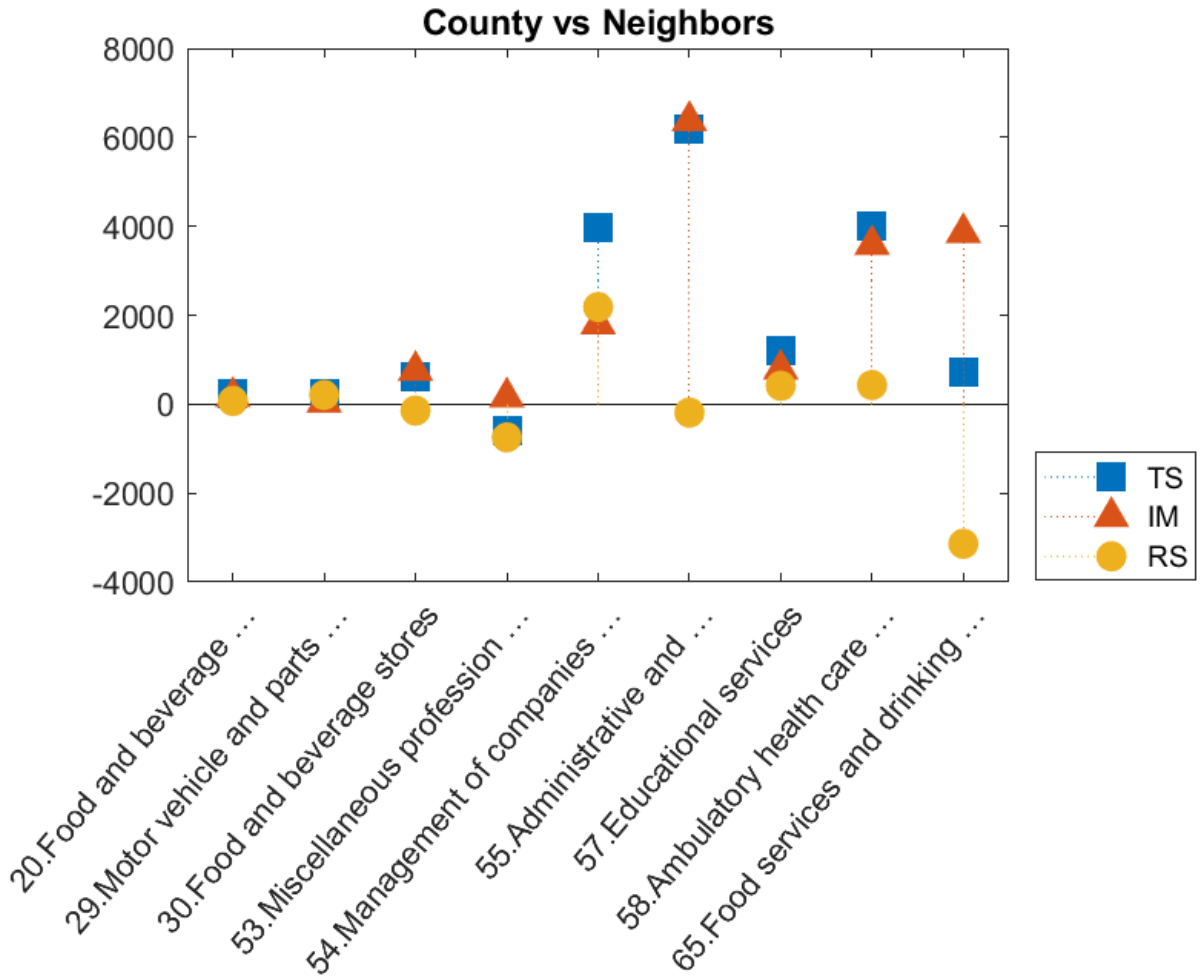


Chapter 26. Knox County, Tennessee

Selected SSA Components for Knox County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-------|--------|-----------------|
| 20 | Food and beverage ... | 8 | 447 | -89 | 536 | 2,700 |
| 29 | Motor vehicle and parts ... | 12 | 585 | 57 | 528 | 4,259 |
| 30 | Food and beverage stores | 14 | 984 | -86 | 1,070 | 5,055 |
| 53 | Miscellaneous profession ... | 27 | 143 | 1,057 | -914 | 8,082 |
| 54 | Management of companies ... | 7 | 4,173 | 1,040 | 3,133 | 6,208 |
| 55 | Administrative and ... | 49 | 7,501 | 1,944 | 5,557 | 21,839 |
| 57 | Educational services | 36 | 2,188 | 234 | 1,954 | 12,922 |
| 58 | Ambulatory health care ... | 39 | 5,068 | 3,677 | 1,391 | 16,497 |
| 65 | Food services and drinking ... | 70 | 2,626 | 4,141 | -1,515 | 23,406 |

Selected SSA Components for Knox County, Tennessee vs Neighbors



Chapter 26. Knox County, Tennessee

Selected SSA Components for Knox County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-------|-------|-------|--------|--------------------|
| 20 | Food and beverage ... | 215 | 240 | 168 | 72 | 2,700 |
| 29 | Motor vehicle and parts ... | 350 | 248 | 42 | 206 | 4,259 |
| 30 | Food and beverage stores | 388 | 610 | 755 | -145 | 5,055 |
| 53 | Miscellaneous profession ... | 757 | -588 | 158 | -746 | 8,082 |
| 54 | Management of companies ... | 194 | 3,986 | 1,803 | 2,183 | 6,208 |
| 55 | Administrative and ... | 1,367 | 6,182 | 6,373 | -191 | 21,839 |
| 57 | Educational services | 1,024 | 1,201 | 787 | 414 | 12,922 |
| 58 | Ambulatory health care ... | 1,090 | 4,017 | 3,588 | 429 | 16,497 |
| 65 | Food services and drinking ... | 1,982 | 715 | 3,855 | -3,140 | 23,406 |

Chapter 27. Lawrence County, Tennessee

Employment in Lawrence County, Tennessee, declined from 12,139 in 2005 to 10,391 in 2018, for a change of -1,748, or -14.4%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Lawrence County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|------|--------|
| vs. U.S. | 1,365 | -3,123 | -518 | -2,605 |
| vs. Appalachia | 37 | -1,789 | -352 | -1,437 |
| vs. Neighbors | 227 | -1,974 | -776 | -1,198 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Lawrence County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 27. Lawrence County, Tennessee

Industry Group Membership for Lawrence County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 07 | Utilities | F III c i | no | yes | yes | yes |
| 08 | Construction | F III c iii | no | yes | yes | yes |
| 12 | Fabricated metal products | F III c i | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 36 | Truck transportation | F III c iii | no | yes | yes | yes |
| 39 | Other transportation ... | E I c iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B II a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 61 | Social assistance | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II a i | yes | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Lawrence County, Tennessee vs. the United States

Groups a, b, and c are from Lawrence County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Lawrence County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Lawrence County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Lawrence County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Lawrence County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Lawrence County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

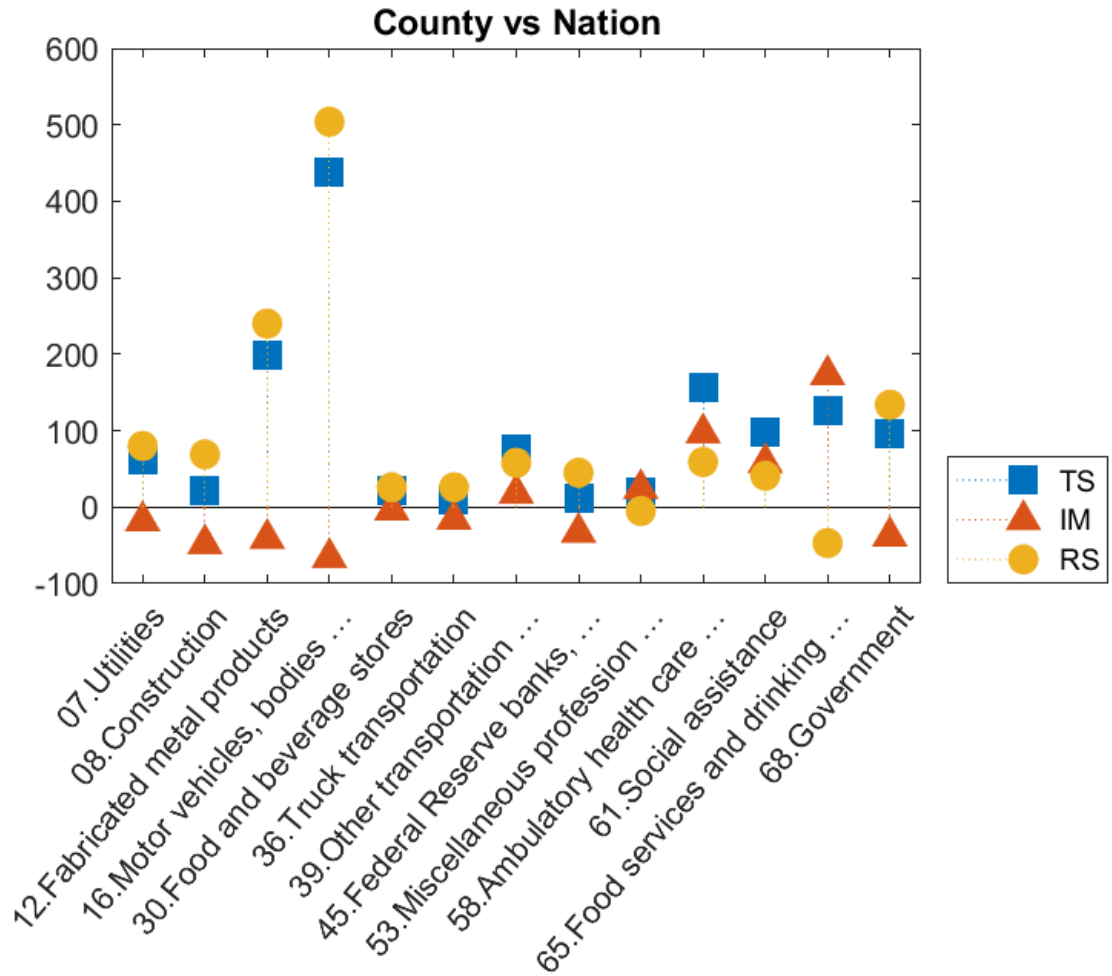
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Lawrence County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Lawrence County, Tennessee vs the U.S.

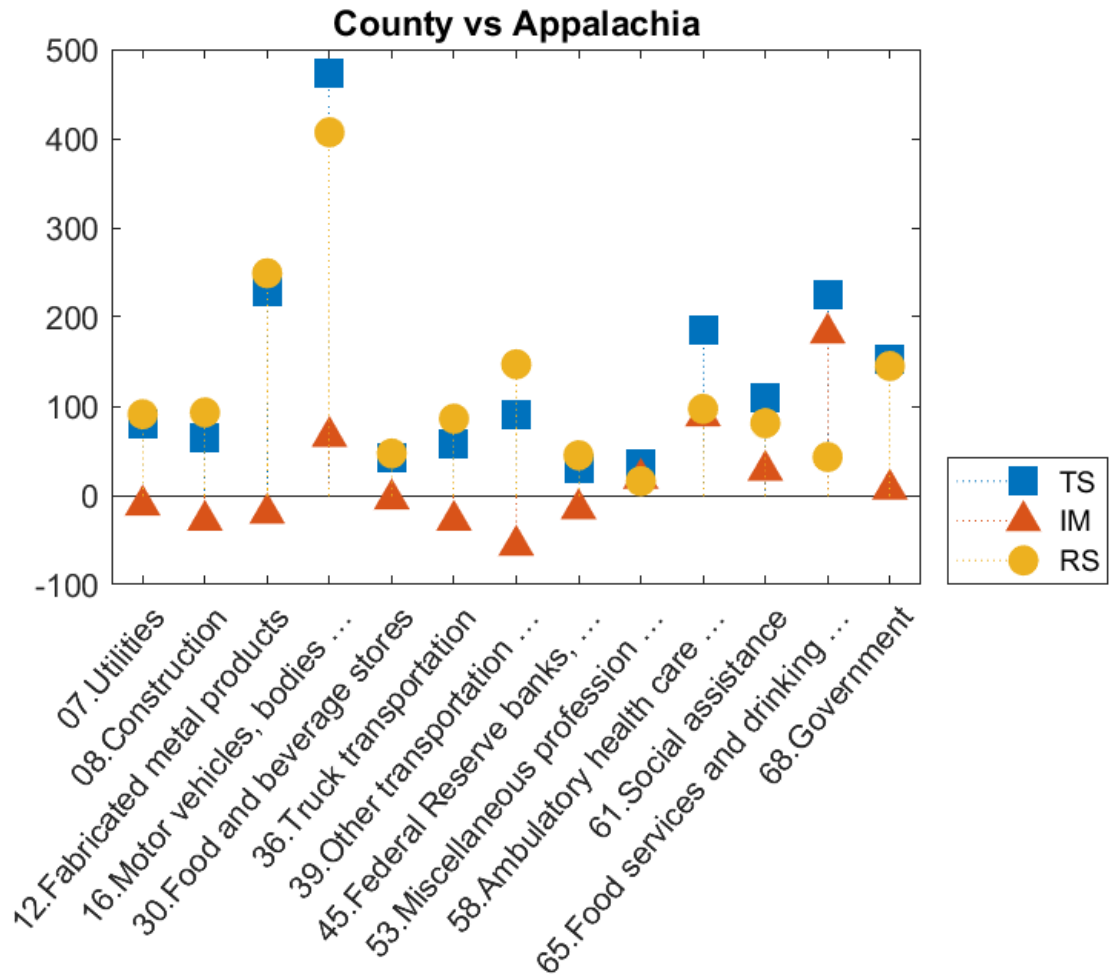


Chapter 27. Lawrence County, Tennessee

Lawrence County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-----|-----|-----|--------------------|
| 07 | Utilities | 19 | 62 | -18 | 80 | 253 |
| 08 | Construction | 44 | 21 | -48 | 69 | 460 |
| 12 | Fabricated metal products | 32 | 199 | -41 | 240 | 510 |
| 16 | Motor vehicles, bodies ... | 37 | 438 | -66 | 504 | 802 |
| 30 | Food and beverage stores | 22 | 22 | -4 | 26 | 237 |
| 36 | Truck transportation | 49 | 10 | -16 | 26 | 490 |
| 39 | Other transportation ... | 15 | 76 | 18 | 58 | 220 |
| 45 | Federal Reserve banks, ... | 19 | 12 | -33 | 45 | 202 |
| 53 | Miscellaneous profession ... | 16 | 19 | 24 | -5 | 177 |
| 58 | Ambulatory health care ... | 31 | 156 | 97 | 59 | 464 |
| 61 | Social assistance | 10 | 99 | 58 | 41 | 198 |
| 65 | Food services and drinking ... | 102 | 126 | 173 | -47 | 1,136 |
| 68 | Government | 57 | 96 | -38 | 134 | 660 |

Selected SSA Components for Lawrence County, Tennessee vs the Appalachian Region

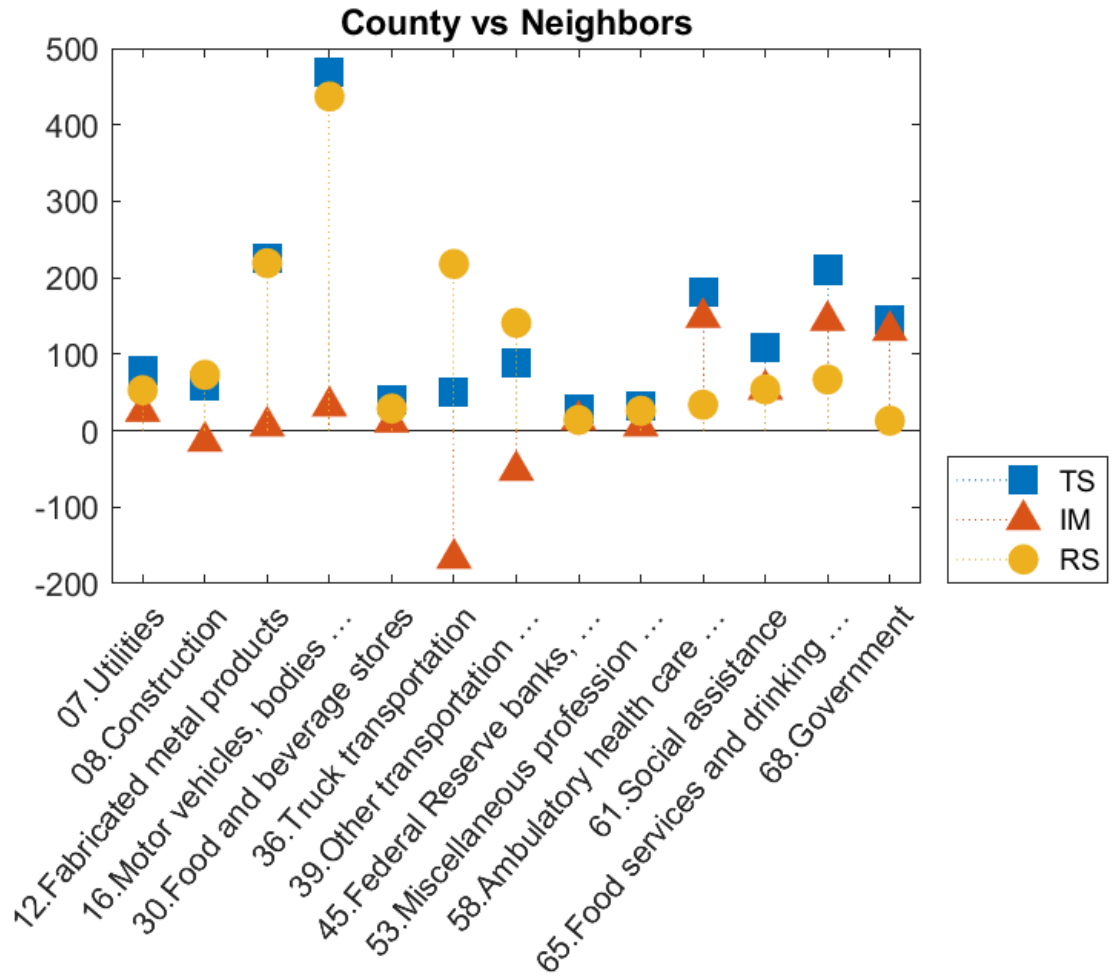


Chapter 27. Lawrence County, Tennessee

Selected SSA Components for Lawrence County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 07 | Utilities | 1 | 80 | -11 | 91 | 253 |
| 08 | Construction | 1 | 65 | -28 | 93 | 460 |
| 12 | Fabricated metal products | 1 | 229 | -20 | 249 | 510 |
| 16 | Motor vehicles, bodies ... | 1 | 473 | 66 | 407 | 802 |
| 30 | Food and beverage stores | 1 | 43 | -4 | 47 | 237 |
| 36 | Truck transportation | 1 | 58 | -28 | 86 | 490 |
| 39 | Other transportation ... | 0 | 91 | -56 | 147 | 220 |
| 45 | Federal Reserve banks, ... | 1 | 30 | -15 | 45 | 202 |
| 53 | Miscellaneous profession ... | 0 | 35 | 19 | 16 | 177 |
| 58 | Ambulatory health care ... | 1 | 186 | 89 | 97 | 464 |
| 61 | Social assistance | 0 | 109 | 28 | 81 | 198 |
| 65 | Food services and drinking ... | 3 | 225 | 182 | 43 | 1,136 |
| 68 | Government | 2 | 152 | 7 | 145 | 660 |

Selected SSA Components for Lawrence County, Tennessee vs Neighbors



Chapter 27. Lawrence County, Tennessee

Selected SSA Components for Lawrence County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|------|-----|--------------------|
| 07 | Utilities | 3 | 78 | 25 | 53 | 253 |
| 08 | Construction | 7 | 59 | -14 | 73 | 460 |
| 12 | Fabricated metal products | 5 | 225 | 6 | 219 | 510 |
| 16 | Motor vehicles, bodies ... | 6 | 469 | 32 | 437 | 802 |
| 30 | Food and beverage stores | 4 | 40 | 11 | 29 | 237 |
| 36 | Truck transportation | 8 | 51 | -167 | 218 | 490 |
| 39 | Other transportation ... | 2 | 89 | -52 | 141 | 220 |
| 45 | Federal Reserve banks, ... | 3 | 28 | 14 | 14 | 202 |
| 53 | Miscellaneous profession ... | 3 | 32 | 6 | 26 | 177 |
| 58 | Ambulatory health care ... | 5 | 182 | 148 | 34 | 464 |
| 61 | Social assistance | 2 | 108 | 54 | 54 | 198 |
| 65 | Food services and drinking ... | 17 | 211 | 144 | 67 | 1,136 |
| 68 | Government | 9 | 144 | 131 | 13 | 660 |

Chapter 28. Lewis County, Tennessee

Employment in Lewis County, Tennessee, grew from 2,678 in 2005 to 2,723 in 2018, for a change of 45, or 1.68%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Lewis County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|------|-----|------|
| vs. U.S. | 296 | -256 | -68 | -188 |
| vs. Appalachia | 6 | 37 | -43 | 80 |
| vs. Neighbors | 8 | 26 | 154 | -128 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Lewis County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 28. Lewis County, Tennessee

Industry Group Membership for Lewis County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 12 | Fabricated metal products | F III c i | no | yes | yes | yes |
| 26 | Chemical products | F III c i | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D III a iii | no | yes | yes | yes |
| 28 | Wholesale trade | F III c iii | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a ii | no | yes | yes | yes |
| 31 | General merchandise ... | F III c i | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B II a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a ii | yes | yes | yes | yes |
| 61 | Social assistance | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Lewis County, Tennessee vs. the United States

Groups a, b, and c are from Lewis County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Lewis County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Lewis County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Lewis County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Lewis County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Lewis County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

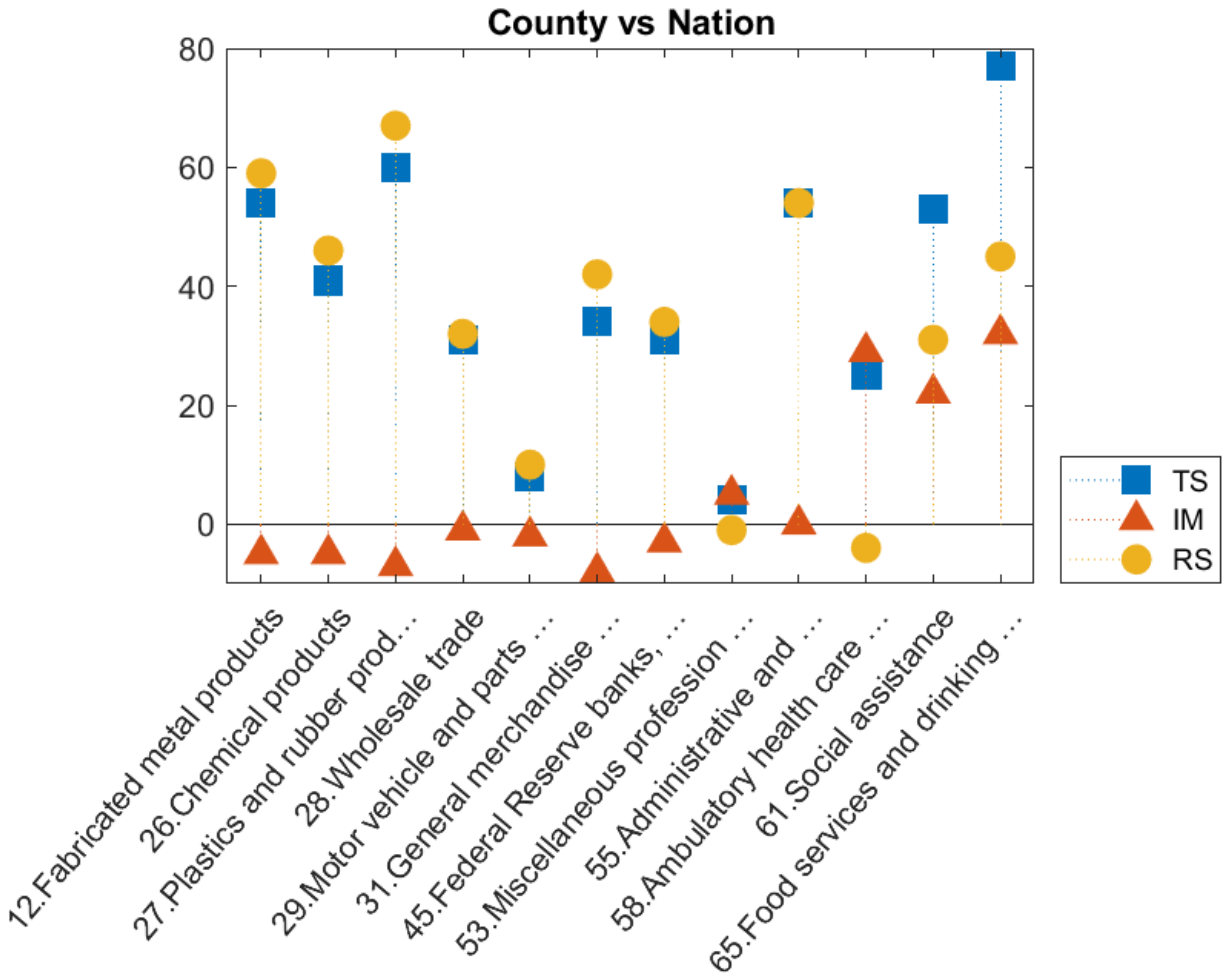
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Lewis County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Lewis County, Tennessee vs the U.S.

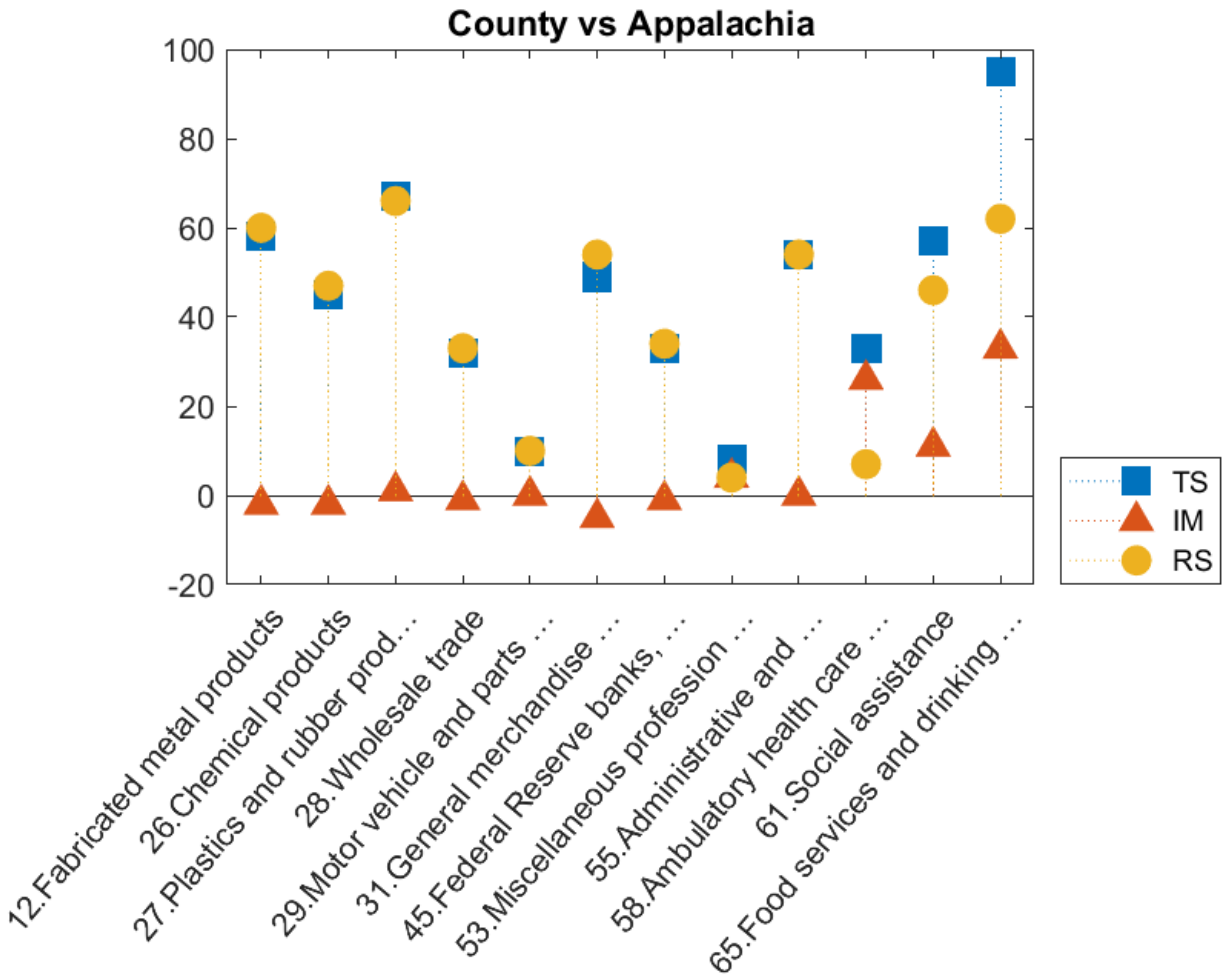


Chapter 28. Lewis County, Tennessee

Lewis County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|----|----|----|--------------------|
| 12 | Fabricated metal products | 4 | 54 | -5 | 59 | 90 |
| 26 | Chemical products | 4 | 41 | -5 | 46 | 78 |
| 27 | Plastics and rubber prod... | 7 | 60 | -7 | 67 | 132 |
| 28 | Wholesale trade | 1 | 31 | -1 | 32 | 43 |
| 29 | Motor vehicle and parts ... | 3 | 8 | -2 | 10 | 39 |
| 31 | General merchandise ... | 15 | 34 | -8 | 42 | 187 |
| 45 | Federal Reserve banks, ... | 1 | 31 | -3 | 34 | 46 |
| 53 | Miscellaneous profession ... | 3 | 4 | 5 | -1 | 38 |
| 55 | Administrative and ... | 0 | 54 | 0 | 54 | 56 |
| 58 | Ambulatory health care ... | 9 | 25 | 29 | -4 | 116 |
| 61 | Social assistance | 4 | 53 | 22 | 31 | 91 |
| 65 | Food services and drinking ... | 19 | 77 | 32 | 45 | 263 |

Selected SSA Components for Lewis County, Tennessee vs the Appalachian Region

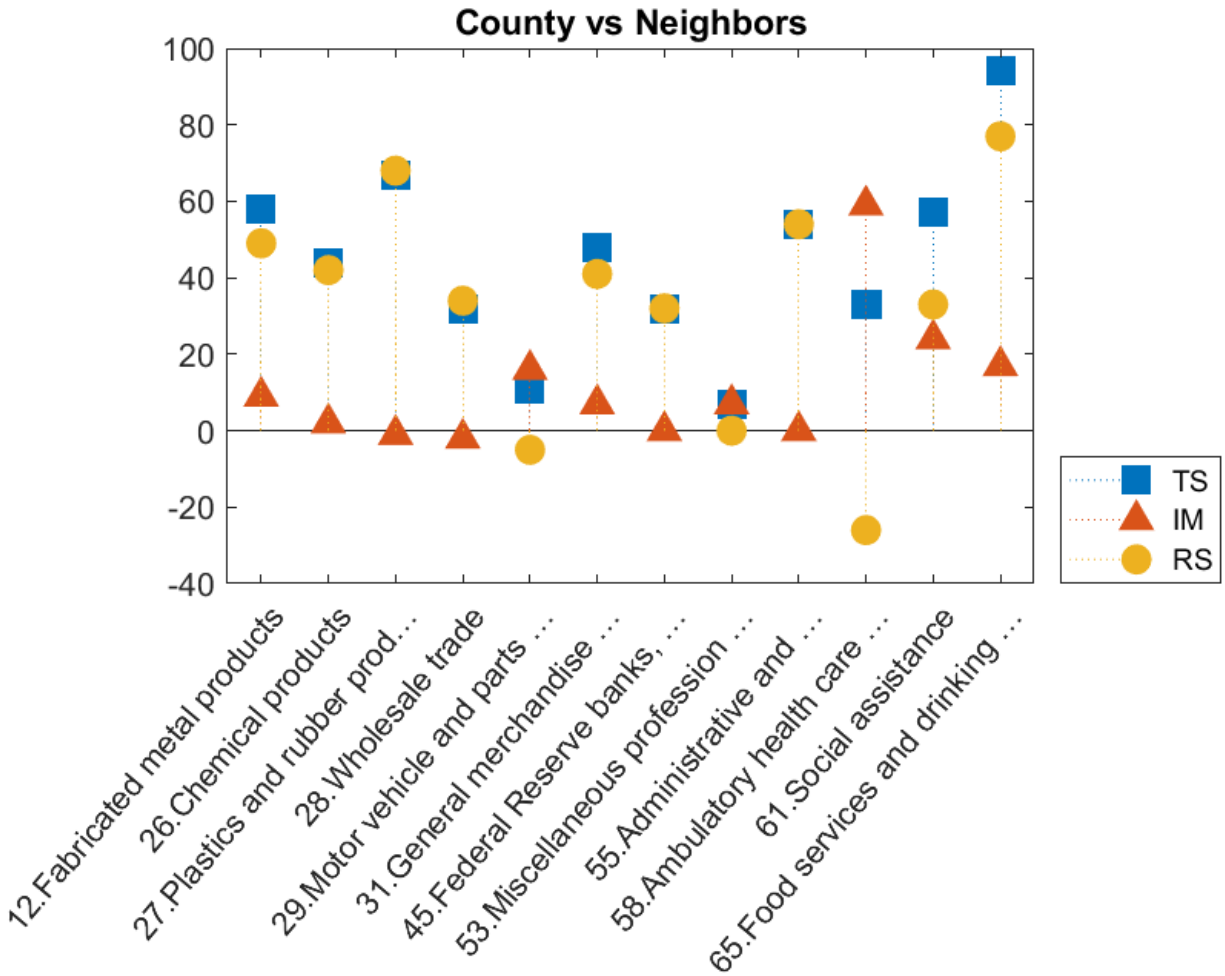


Chapter 28. Lewis County, Tennessee

Selected SSA Components for Lewis County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|----|----|----|-----------------|
| 12 | Fabricated metal products | 0 | 58 | -2 | 60 | 90 |
| 26 | Chemical products | 0 | 45 | -2 | 47 | 78 |
| 27 | Plastics and rubber prod... | 0 | 67 | 1 | 66 | 132 |
| 28 | Wholesale trade | 0 | 32 | -1 | 33 | 43 |
| 29 | Motor vehicle and parts ... | 0 | 10 | 0 | 10 | 39 |
| 31 | General merchandise ... | 0 | 49 | -5 | 54 | 187 |
| 45 | Federal Reserve banks, ... | 0 | 33 | -1 | 34 | 46 |
| 53 | Miscellaneous profession ... | 0 | 8 | 4 | 4 | 38 |
| 55 | Administrative and ... | 0 | 54 | 0 | 54 | 56 |
| 58 | Ambulatory health care ... | 0 | 33 | 26 | 7 | 116 |
| 61 | Social assistance | 0 | 57 | 11 | 46 | 91 |
| 65 | Food services and drinking ... | 1 | 95 | 33 | 62 | 263 |

Selected SSA Components for Lewis County, Tennessee vs Neighbors



Chapter 28. Lewis County, Tennessee

Selected SSA Components for Lewis County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|----|----|-----|--------------------|
| 12 | Fabricated metal products | 0 | 58 | 9 | 49 | 90 |
| 26 | Chemical products | 0 | 44 | 2 | 42 | 78 |
| 27 | Plastics and rubber prod... | 0 | 67 | -1 | 68 | 132 |
| 28 | Wholesale trade | 0 | 32 | -2 | 34 | 43 |
| 29 | Motor vehicle and parts ... | 0 | 11 | 16 | -5 | 39 |
| 31 | General merchandise ... | 1 | 48 | 7 | 41 | 187 |
| 45 | Federal Reserve banks, ... | 0 | 32 | 0 | 32 | 46 |
| 53 | Miscellaneous profession ... | 0 | 7 | 7 | 0 | 38 |
| 55 | Administrative and ... | 0 | 54 | 0 | 54 | 56 |
| 58 | Ambulatory health care ... | 0 | 33 | 59 | -26 | 116 |
| 61 | Social assistance | 0 | 57 | 24 | 33 | 91 |
| 65 | Food services and drinking ... | 1 | 94 | 17 | 77 | 263 |

Chapter 29. Loudon County, Tennessee

Employment in Loudon County, Tennessee, grew from 14,511 in 2005 to 15,440 in 2018, for a change of 929, or 6.4%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Loudon County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|------|------|------|
| vs. U.S. | 1,634 | -706 | 104 | -810 |
| vs. Appalachia | 46 | 882 | -109 | 991 |
| vs. Neighbors | 1,186 | -254 | -600 | 346 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Loudon County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 29. Loudon County, Tennessee

Industry Group Membership for Loudon County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|-----------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 01 | Farms | F III a i | no | yes | yes | yes |
| 08 | Construction | F III c iii | no | yes | yes | yes |
| 10 | Nonmetallic mineral prod ... | F III c iii | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 17 | Other transportation ... | F III c iii | no | yes | yes | yes |
| 23 | Paper products | D I a i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B V b v | yes | no | yes | no |
| 55 | Administrative and ... | A I a ii | yes | yes | yes | yes |
| 56 | Waste management and ... | A I a iii | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B V b v | yes | no | yes | no |
| 59 | Hospitals | E I a iii | no | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 61 | Social assistance | B II b iii | yes | yes | yes | yes |
| 63 | Amusements, gambling, ... | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 68 | Government | F III a iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Chapter 29. Loudon County, Tennessee

Groups I, II, and III are from Loudon County, Tennessee vs. the United States

Groups a, b, and c are from Loudon County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Loudon County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Loudon County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Loudon County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Loudon County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Loudon County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

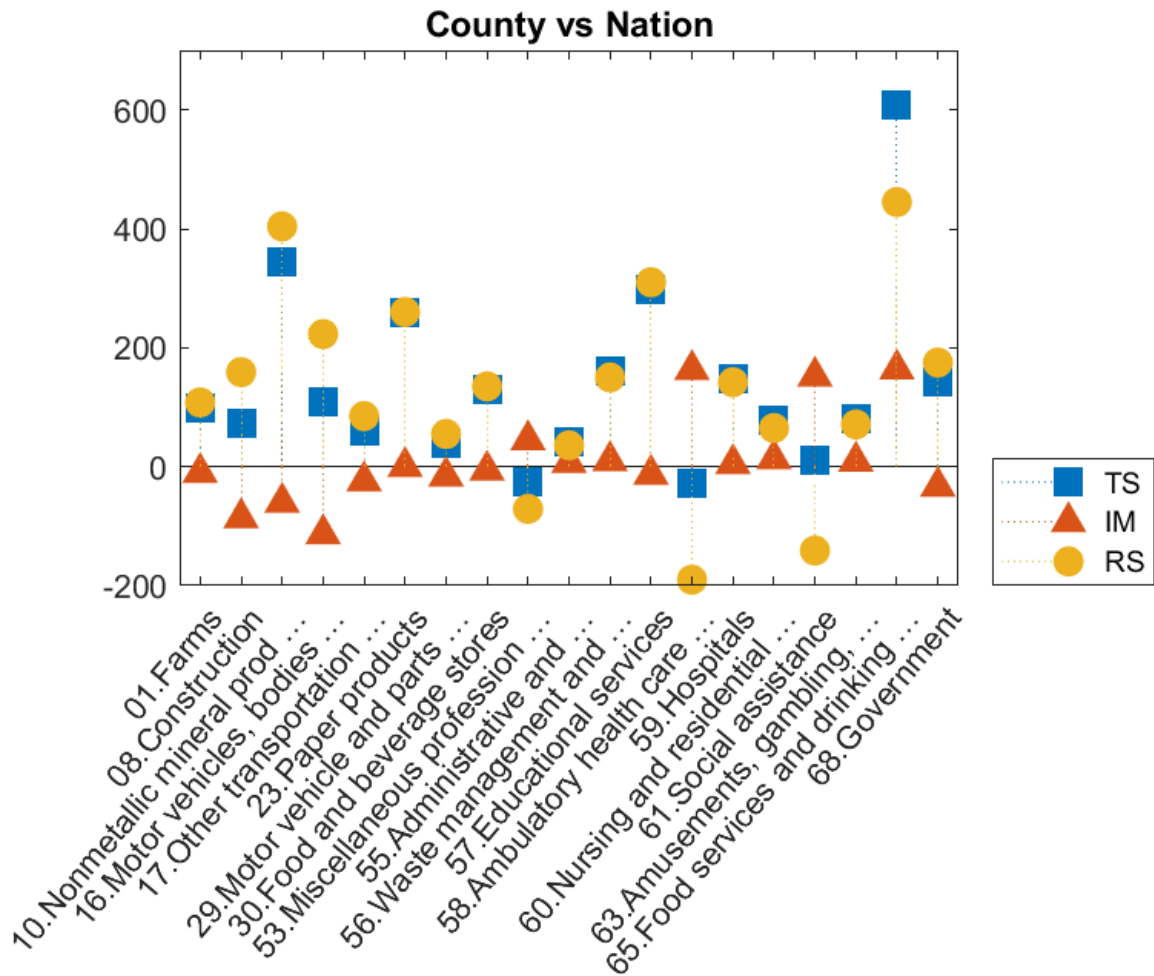
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Loudon County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Loudon County, Tennessee vs the U.S.

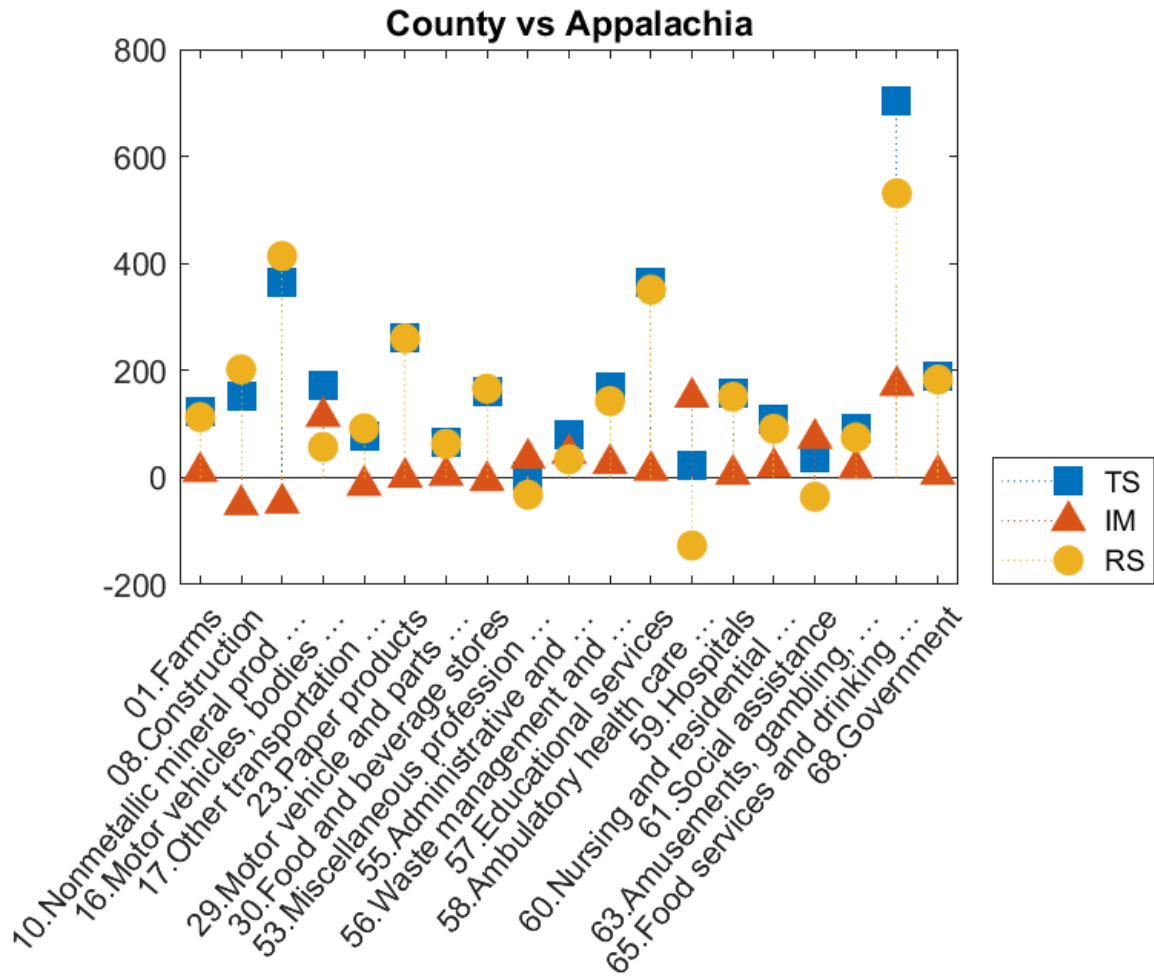


Chapter 29. Loudon County, Tennessee

Loudon County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|------|------|--------------------|
| 01 | Farms | 27 | 98 | -10 | 108 | 365 |
| 08 | Construction | 80 | 73 | -86 | 159 | 861 |
| 10 | Nonmetallic mineral prod | 23 | 344 | -60 | 404 | 575 |
| | ... | | | | | |
| 16 | Motor vehicles, bodies ... | 63 | 110 | -113 | 223 | 732 |
| 17 | Other transportation | 17 | 61 | -24 | 85 | 232 |
| | ... | | | | | |
| 23 | Paper products | 0 | 260 | 0 | 260 | 260 |
| 29 | Motor vehicle and parts ... | 29 | 39 | -16 | 55 | 327 |
| 30 | Food and beverage stores | 32 | 129 | -6 | 135 | 442 |
| 53 | Miscellaneous profession ... | 30 | -26 | 45 | -71 | 273 |
| 55 | Administrative and ... | 37 | 43 | 7 | 36 | 413 |
| 56 | Waste management and ... | 10 | 160 | 10 | 150 | 257 |
| 57 | Educational services | 68 | 297 | -13 | 310 | 969 |
| 58 | Ambulatory health care ... | 52 | -27 | 163 | -190 | 488 |
| 59 | Hospitals | 11 | 147 | 5 | 142 | 251 |
| 60 | Nursing and residential ... | 33 | 78 | 13 | 65 | 406 |
| 61 | Social assistance | 26 | 11 | 152 | -141 | 270 |
| 63 | Amusements, gambling, ... | 13 | 80 | 9 | 71 | 205 |
| 65 | Food services and drinking ... | 97 | 609 | 164 | 445 | 1,568 |
| 68 | Government | 49 | 142 | -33 | 175 | 623 |

Selected SSA Components for Loudon County, Tennessee vs the Appalachian Region

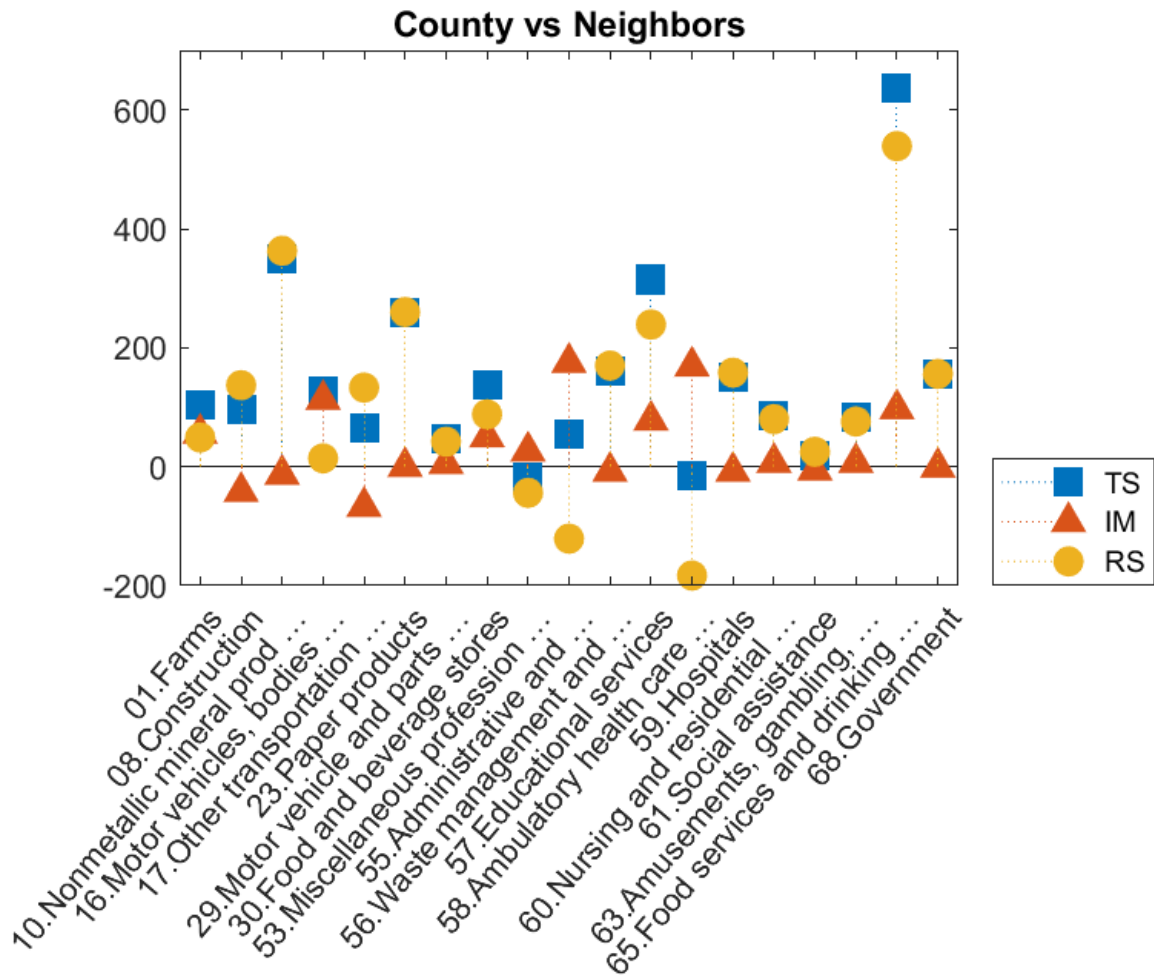


Chapter 29. Loudon County, Tennessee

Selected SSA Components for Loudon County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|-----|-----|------|--------------------|
| 01 | Farms | 1 | 124 | 11 | 113 | 365 |
| 08 | Construction | 2 | 151 | -51 | 202 | 861 |
| 10 | Nonmetallic mineral prod ... | 1 | 366 | -48 | 414 | 575 |
| 16 | Motor vehicles, bodies ... | 2 | 171 | 114 | 57 | 732 |
| 17 | Other transportation ... | 1 | 77 | -15 | 92 | 232 |
| 23 | Paper products | 0 | 260 | 0 | 260 | 260 |
| 29 | Motor vehicle and parts ... | 1 | 67 | 4 | 63 | 327 |
| 30 | Food and beverage stores | 1 | 160 | -6 | 166 | 442 |
| 53 | Miscellaneous profession ... | 1 | 4 | 36 | -32 | 273 |
| 55 | Administrative and ... | 1 | 79 | 45 | 34 | 413 |
| 56 | Waste management and ... | 0 | 169 | 26 | 143 | 257 |
| 57 | Educational services | 2 | 364 | 13 | 351 | 969 |
| 58 | Ambulatory health care ... | 2 | 23 | 150 | -127 | 488 |
| 59 | Hospitals | 0 | 157 | 6 | 151 | 251 |
| 60 | Nursing and residential ... | 1 | 110 | 19 | 91 | 406 |
| 61 | Social assistance | 1 | 37 | 73 | -36 | 270 |
| 63 | Amusements, gambling, ... | 0 | 92 | 17 | 75 | 205 |
| 65 | Food services and drinking ... | 3 | 703 | 172 | 531 | 1,568 |
| 68 | Government | 1 | 189 | 6 | 183 | 623 |

Selected SSA Components for Loudon County, Tennessee vs Neighbors



Chapter 29. Loudon County, Tennessee

Selected SSA Components for Loudon County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|----------------------------------|----|-----|-----|------|--------------------|
| 01 | Farms | 20 | 105 | 56 | 49 | 365 |
| 08 | Construction | 58 | 95 | -42 | 137 | 861 |
| 10 | Nonmetallic mineral prod | 17 | 350 | -13 | 363 | 575 |
| | ... | | | | | |
| 16 | Motor vehicles, bodies ... | 46 | 127 | 113 | 14 | 732 |
| 17 | Other transportation | 13 | 66 | -67 | 133 | 232 |
| | ... | | | | | |
| 23 | Paper products | 0 | 260 | 0 | 260 | 260 |
| 29 | Motor vehicle and parts ... | 21 | 47 | 5 | 42 | 327 |
| 30 | Food and beverage stores | 23 | 138 | 50 | 88 | 442 |
| 53 | Miscellaneous profession ... | 22 | -18 | 26 | -44 | 273 |
| 55 | Administrative and ... | 27 | 54 | 175 | -121 | 413 |
| 56 | Waste management and ... | 7 | 162 | -8 | 170 | 257 |
| 57 | Educational services | 49 | 317 | 78 | 239 | 969 |
| 58 | Ambulatory health care ... | 38 | -14 | 169 | -183 | 488 |
| 59 | Hospitals | 8 | 150 | -8 | 158 | 251 |
| 60 | Nursing and residential ... | 24 | 87 | 7 | 80 | 406 |
| 61 | Social assistance | 19 | 19 | -6 | 25 | 270 |
| 63 | Amusements, gambling, ... | 9 | 83 | 7 | 76 | 205 |
| 65 | Food services and drinking | 71 | 636 | 97 | 539 | 1,568 |
| | ... | | | | | |
| 68 | Government | 35 | 155 | -1 | 156 | 623 |

Chapter 30. McMinn County, Tennessee

Employment in McMinn County, Tennessee, grew from 18,006 in 2005 to 18,039 in 2018, for a change of 33, or 0.18%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for McMinn County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|--------|------|
| vs. U.S. | 2,029 | -1,997 | -1,375 | -622 |
| vs. Appalachia | 58 | -31 | -180 | 149 |
| vs. Neighbors | 899 | -864 | -848 | -16 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to McMinn County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 30. McMinn County, Tennessee

Industry Group Membership for McMinn County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 11 | Primary metals | F III c i | no | yes | yes | yes |
| 15 | Electrical equipment, ... | D I a i | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 20 | Food and beverage ... | E I c iii | no | yes | yes | yes |
| 28 | Wholesale trade | F III c iii | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a ii | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a ii | yes | yes | yes | yes |
| 61 | Social assistance | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II a ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c iii | no | yes | yes | yes |
| 68 | Government | F III a ii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from McMinn County, Tennessee vs. the United States

Groups a, b, and c are from McMinn County, Tennessee vs. Appalachia

Groups i, ii, and iii are from McMinn County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing McMinn County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by McMinn County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in McMinn County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that McMinn County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

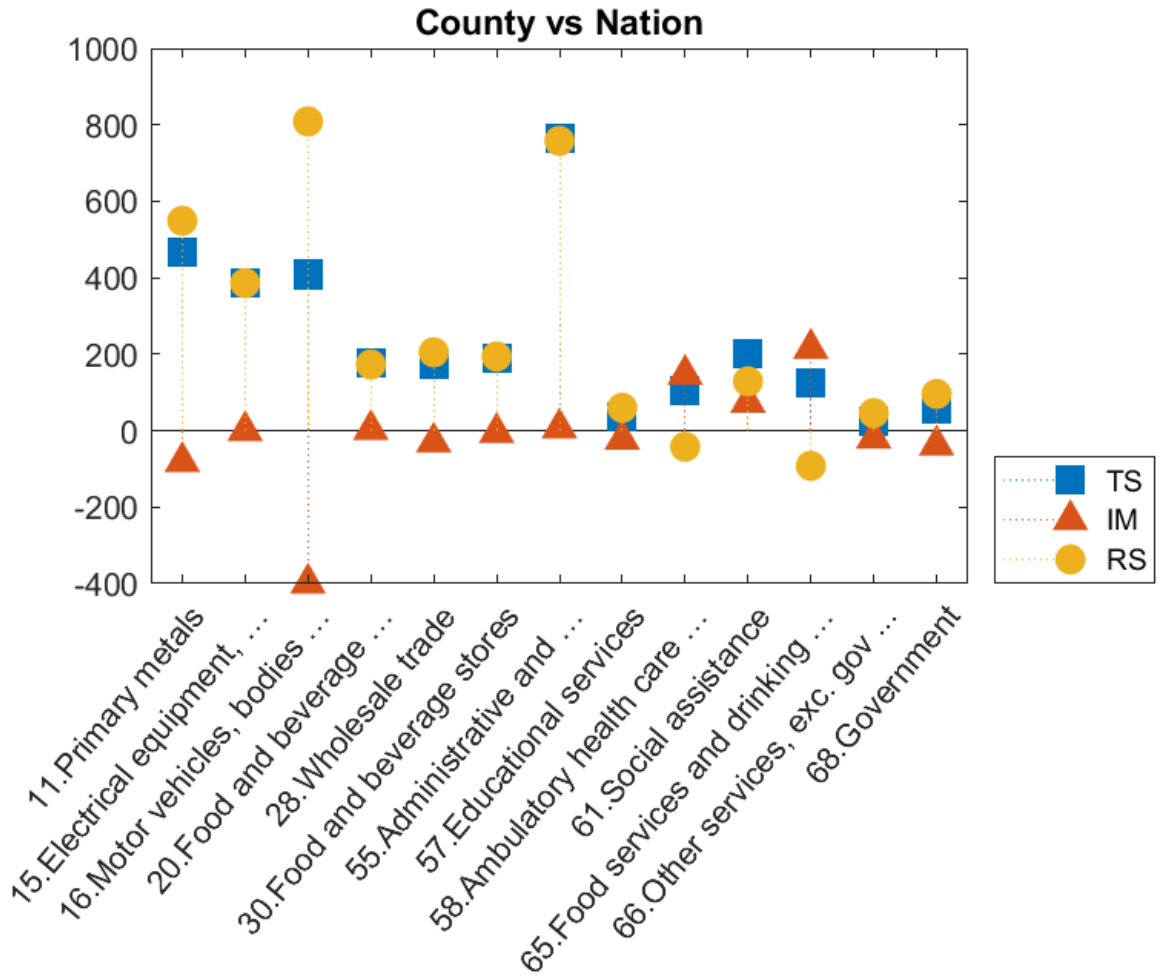
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in McMinn County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for McMinn County, Tennessee vs the U.S.

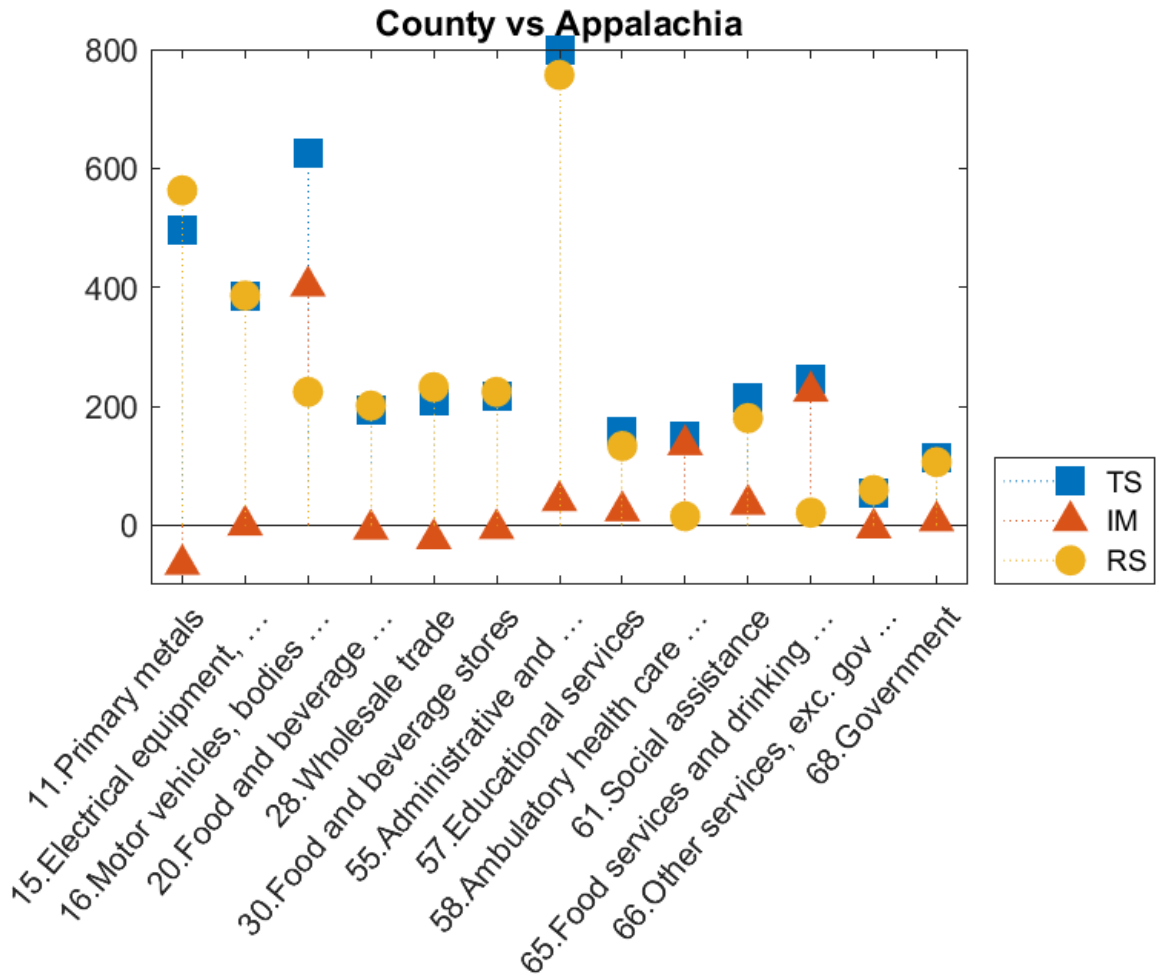


Chapter 30. McMinn County, Tennessee

McMinn County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|------|-----|--------------------|
| 11 | Primary metals | 31 | 468 | -81 | 549 | 773 |
| 15 | Electrical equipment, ... | 0 | 386 | 0 | 386 | 386 |
| 16 | Motor vehicles, bodies ... | 223 | 410 | -399 | 809 | 2,609 |
| 20 | Food and beverage ... | 19 | 176 | 3 | 173 | 364 |
| 28 | Wholesale trade | 35 | 175 | -30 | 205 | 525 |
| 30 | Food and beverage stores | 30 | 189 | -5 | 194 | 486 |
| 55 | Administrative and ... | 34 | 765 | 7 | 758 | 1,100 |
| 57 | Educational services | 124 | 37 | -23 | 60 | 1,258 |
| 58 | Ambulatory health care ... | 47 | 105 | 147 | -42 | 571 |
| 61 | Social assistance | 13 | 203 | 74 | 129 | 329 |
| 65 | Food services and drinking ... | 127 | 123 | 215 | -92 | 1,378 |
| 66 | Other services, exc. gov ... | 29 | 26 | -20 | 46 | 309 |
| 68 | Government | 57 | 58 | -38 | 96 | 617 |

Selected SSA Components for McMinn County, Tennessee vs the Appalachian Region

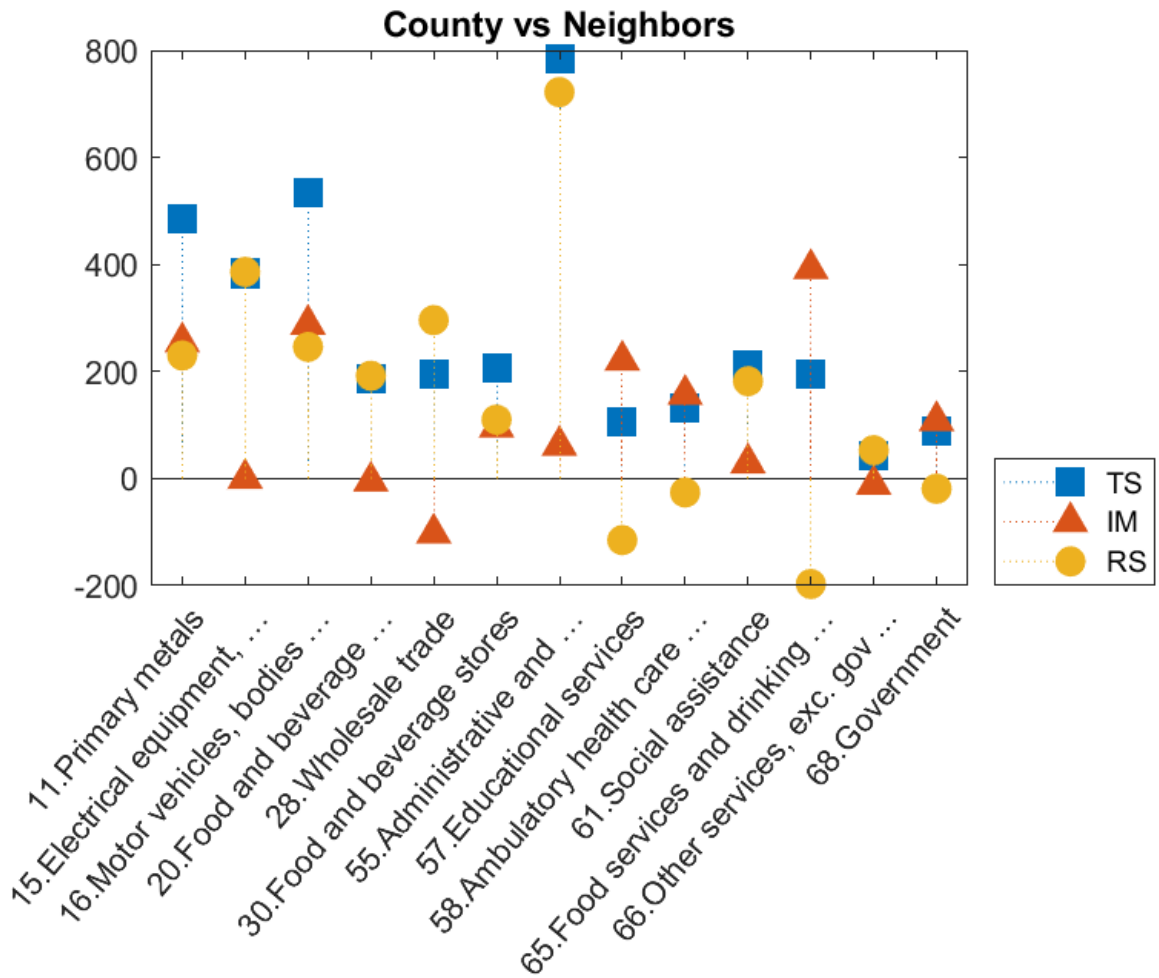


Chapter 30. McMinn County, Tennessee

Selected SSA Components for McMinn County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 11 | Primary metals | 1 | 497 | -66 | 563 | 773 |
| 15 | Electrical equipment, ... | 0 | 386 | 0 | 386 | 386 |
| 16 | Motor vehicles, bodies ... | 7 | 626 | 402 | 224 | 2,609 |
| 20 | Food and beverage ... | 1 | 194 | -7 | 201 | 364 |
| 28 | Wholesale trade | 1 | 209 | -23 | 232 | 525 |
| 30 | Food and beverage stores | 1 | 218 | -6 | 224 | 486 |
| 55 | Administrative and ... | 1 | 798 | 41 | 757 | 1,100 |
| 57 | Educational services | 4 | 157 | 24 | 133 | 1,258 |
| 58 | Ambulatory health care ... | 1 | 150 | 135 | 15 | 571 |
| 61 | Social assistance | 0 | 215 | 35 | 180 | 329 |
| 65 | Food services and drinking ... | 4 | 246 | 225 | 21 | 1,378 |
| 66 | Other services, exc. gov ... | 1 | 54 | -5 | 59 | 309 |
| 68 | Government | 2 | 113 | 7 | 106 | 617 |

Selected SSA Components for McMinn County, Tennessee vs Neighbors



Chapter 30. McMinn County, Tennessee

Selected SSA Components for McMinn County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|------|------|--------------------|
| 11 | Primary metals | 14 | 485 | 255 | 230 | 773 |
| 15 | Electrical equipment, ... | 0 | 386 | 0 | 386 | 386 |
| 16 | Motor vehicles, bodies ... | 99 | 534 | 288 | 246 | 2,609 |
| 20 | Food and beverage ... | 8 | 187 | -5 | 192 | 364 |
| 28 | Wholesale trade | 16 | 194 | -102 | 296 | 525 |
| 30 | Food and beverage stores | 13 | 206 | 96 | 110 | 486 |
| 55 | Administrative and ... | 15 | 784 | 62 | 722 | 1,100 |
| 57 | Educational services | 55 | 106 | 221 | -115 | 1,258 |
| 58 | Ambulatory health care ... | 21 | 131 | 157 | -26 | 571 |
| 61 | Social assistance | 6 | 211 | 29 | 182 | 329 |
| 65 | Food services and drinking ... | 56 | 195 | 392 | -197 | 1,378 |
| 66 | Other services, exc. gov ... | 13 | 42 | -11 | 53 | 309 |
| 68 | Government | 25 | 89 | 108 | -19 | 617 |

Chapter 31. Macon County, Tennessee

Employment in Macon County, Tennessee, grew from 4,819 in 2005 to 4,983 in 2018, for a change of 164, or 3.4%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Macon County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|------|------|------|
| vs. U.S. | 541 | -382 | -307 | -75 |
| vs. Appalachia | 13 | 146 | -322 | 468 |
| vs. Neighbors | 1,159 | -995 | -536 | -459 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Macon County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 31. Macon County, Tennessee

Industry Group Membership for Macon County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 09 | Wood products | F III c iii | no | yes | yes | yes |
| 20 | Food and beverage ... | E I a i | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D III a iv | no | yes | yes | no |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c iii | no | yes | yes | yes |
| 54 | Management of companies ... | A I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a ii | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a ii | no | yes | yes | yes |
| 65 | Food services and drinking ... | B I a ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c iii | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Macon County, Tennessee vs. the United States

Groups a, b, and c are from Macon County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Macon County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Macon County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Macon County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Macon County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Macon County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

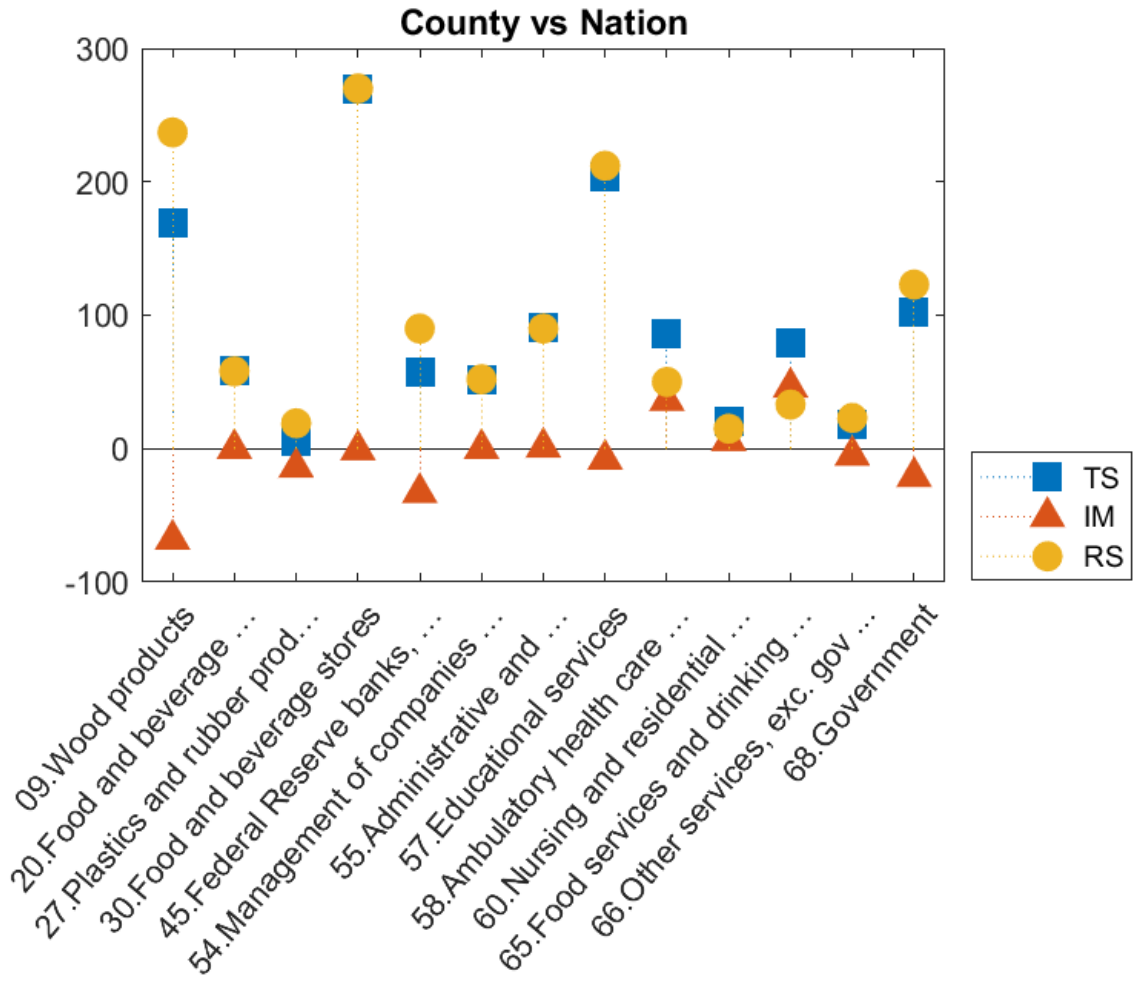
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Macon County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Macon County, Tennessee vs the U.S.

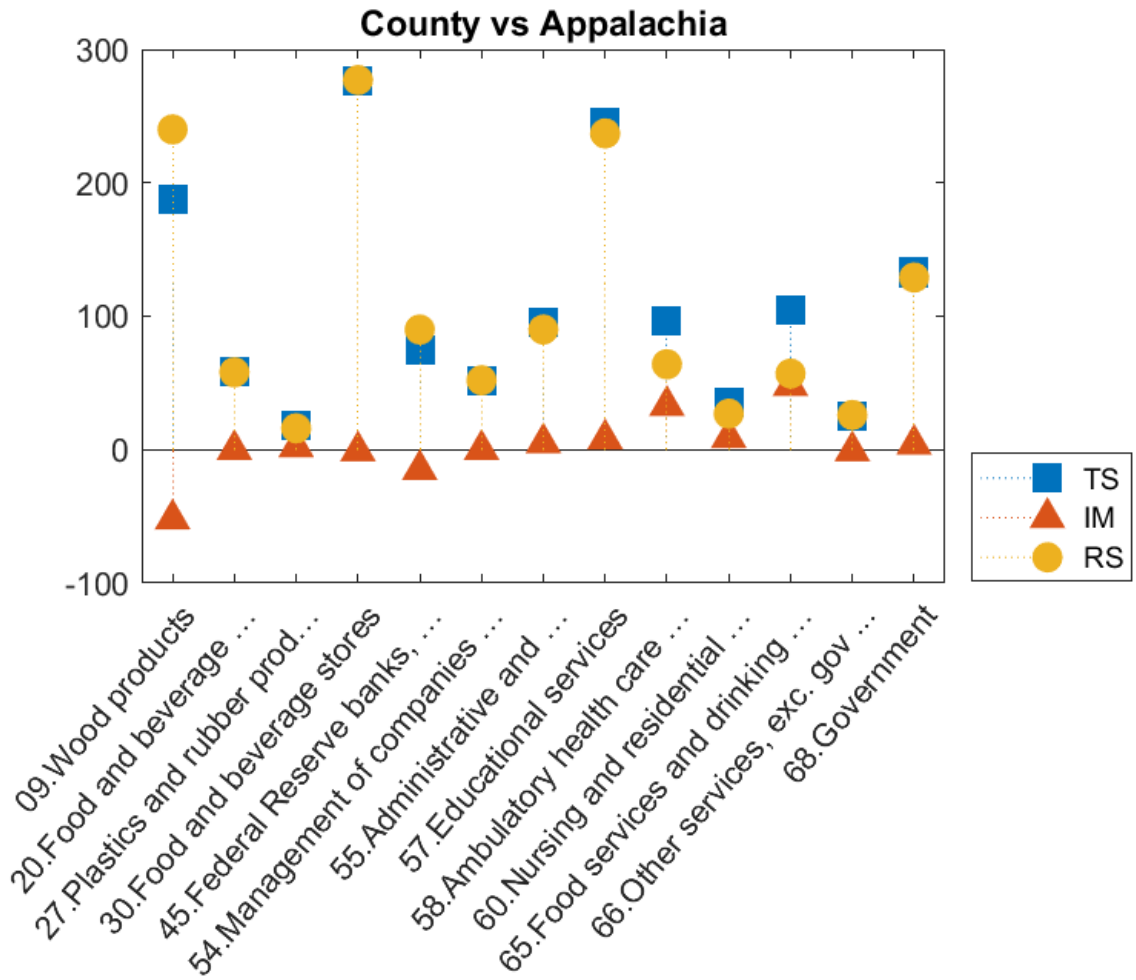


Chapter 31. Macon County, Tennessee

Macon County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 09 | Wood products | 20 | 169 | -68 | 237 | 362 |
| 20 | Food and beverage ... | 0 | 58 | 0 | 58 | 58 |
| 27 | Plastics and rubber prod... | 15 | 5 | -14 | 19 | 148 |
| 30 | Food and beverage stores | 8 | 269 | -1 | 270 | 343 |
| 45 | Federal Reserve banks, ... | 19 | 57 | -33 | 90 | 246 |
| 54 | Management of companies ... | 0 | 52 | 0 | 52 | 52 |
| 55 | Administrative and ... | 4 | 91 | 1 | 90 | 131 |
| 57 | Educational services | 41 | 204 | -8 | 212 | 614 |
| 58 | Ambulatory health care ... | 12 | 86 | 36 | 50 | 199 |
| 60 | Nursing and residential ... | 15 | 21 | 6 | 15 | 170 |
| 65 | Food services and drinking ... | 27 | 79 | 46 | 33 | 347 |
| 66 | Other services, exc. gov ... | 7 | 18 | -5 | 23 | 89 |
| 68 | Government | 31 | 102 | -21 | 123 | 408 |

Selected SSA Components for Macon County, Tennessee vs the Appalachian Region

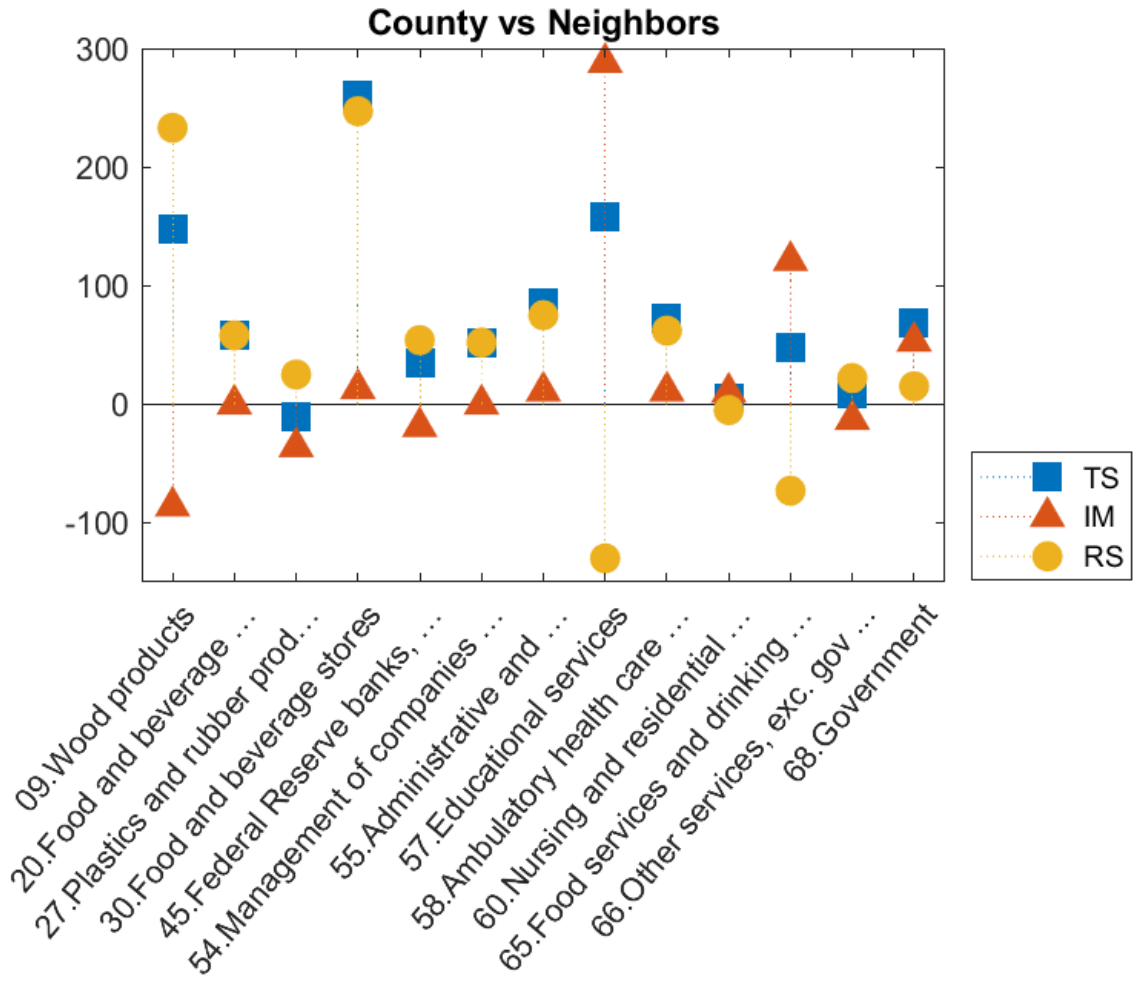


Chapter 31. Macon County, Tennessee

Selected SSA Components for Macon County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 09 | Wood products | 1 | 188 | -52 | 240 | 362 |
| 20 | Food and beverage ... | 0 | 58 | 0 | 58 | 58 |
| 27 | Plastics and rubber prod... | 0 | 18 | 2 | 16 | 148 |
| 30 | Food and beverage stores | 0 | 276 | -1 | 277 | 343 |
| 45 | Federal Reserve banks, ... | 1 | 75 | -15 | 90 | 246 |
| 54 | Management of companies ... | 0 | 52 | 0 | 52 | 52 |
| 55 | Administrative and ... | 0 | 95 | 5 | 90 | 131 |
| 57 | Educational services | 1 | 245 | 8 | 237 | 614 |
| 58 | Ambulatory health care ... | 0 | 97 | 33 | 64 | 199 |
| 60 | Nursing and residential ... | 0 | 36 | 9 | 27 | 170 |
| 65 | Food services and drinking ... | 1 | 105 | 48 | 57 | 347 |
| 66 | Other services, exc. gov ... | 0 | 25 | -1 | 26 | 89 |
| 68 | Government | 1 | 133 | 4 | 129 | 408 |

Selected SSA Components for Macon County, Tennessee vs Neighbors



Chapter 31. Macon County, Tennessee

Selected SSA Components for Macon County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|------|--------------------|
| 09 | Wood products | 42 | 147 | -86 | 233 | 362 |
| 20 | Food and beverage ... | 0 | 58 | 0 | 58 | 58 |
| 27 | Plastics and rubber prod... | 31 | -11 | -36 | 25 | 148 |
| 30 | Food and beverage stores | 16 | 260 | 13 | 247 | 343 |
| 45 | Federal Reserve banks, ... | 41 | 35 | -19 | 54 | 246 |
| 54 | Management of companies ... | 0 | 52 | 0 | 52 | 52 |
| 55 | Administrative and ... | 9 | 86 | 11 | 75 | 131 |
| 57 | Educational services | 89 | 158 | 288 | -130 | 614 |
| 58 | Ambulatory health care ... | 25 | 73 | 11 | 62 | 199 |
| 60 | Nursing and residential ... | 32 | 5 | 10 | -5 | 170 |
| 65 | Food services and drinking ... | 58 | 48 | 121 | -73 | 347 |
| 66 | Other services, exc. gov ... | 15 | 9 | -13 | 22 | 89 |
| 68 | Government | 66 | 68 | 53 | 15 | 408 |

Chapter 32. Marion County, Tennessee

Employment in Marion County, Tennessee, grew from 7,433 in 2005 to 7,579 in 2018, for a change of 146, or 1.96%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Marion County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|------|------|------|
| vs. U.S. | 840 | -691 | -297 | -394 |
| vs. Appalachia | 25 | 122 | -227 | 349 |
| vs. Neighbors | -52 | 201 | 180 | 21 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Marion County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 32. Marion County, Tennessee

Industry Group Membership for Marion County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 08 | Construction | F III c i | no | yes | yes | yes |
| 09 | Wood products | F III c i | no | yes | yes | yes |
| 10 | Nonmetallic mineral prod ... | F III c i | no | yes | yes | yes |
| 11 | Primary metals | F III c iii | no | yes | yes | yes |
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 23 | Paper products | D III c i | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D III a i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a ii | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Marion County, Tennessee vs. the United States

Groups a, b, and c are from Marion County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Marion County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Marion County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Marion County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Marion County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Marion County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

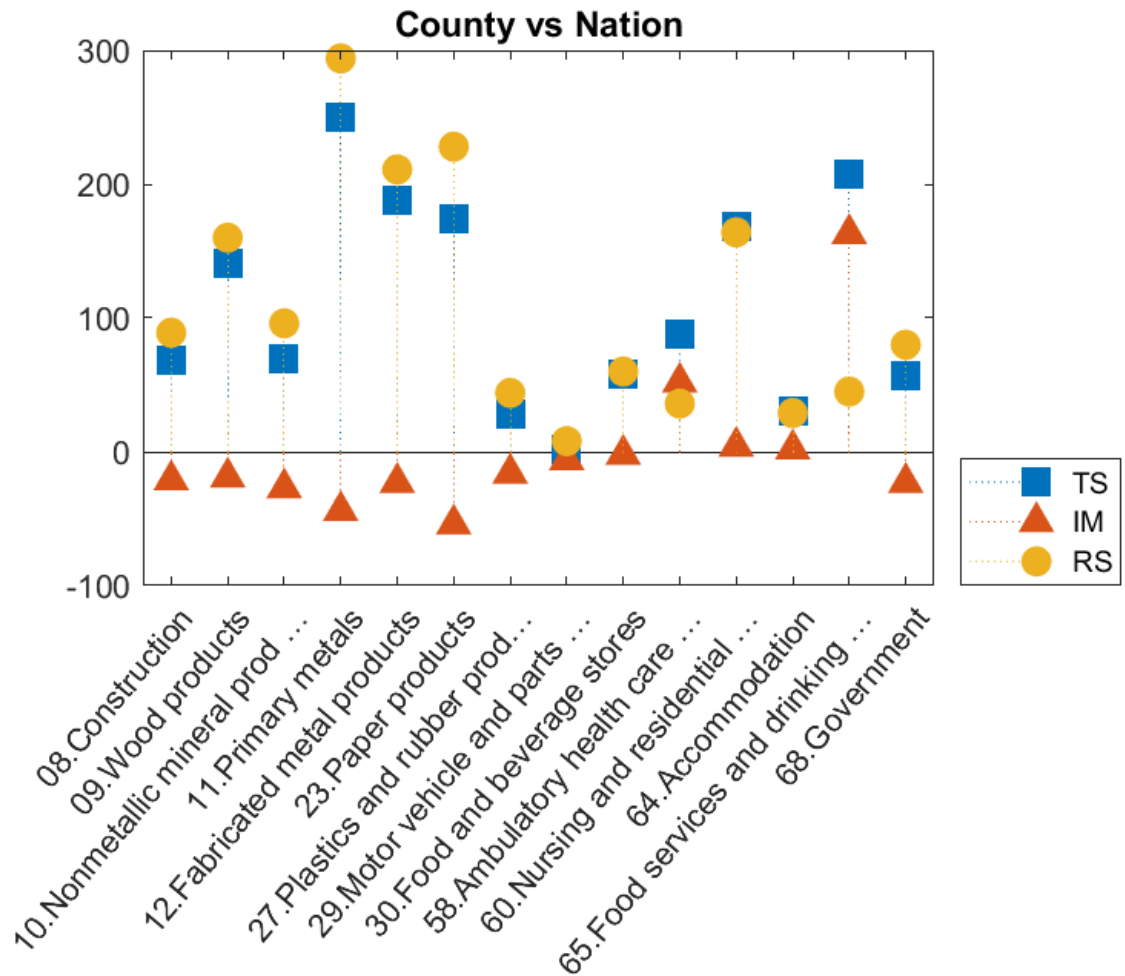
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Marion County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Marion County, Tennessee vs the U.S.

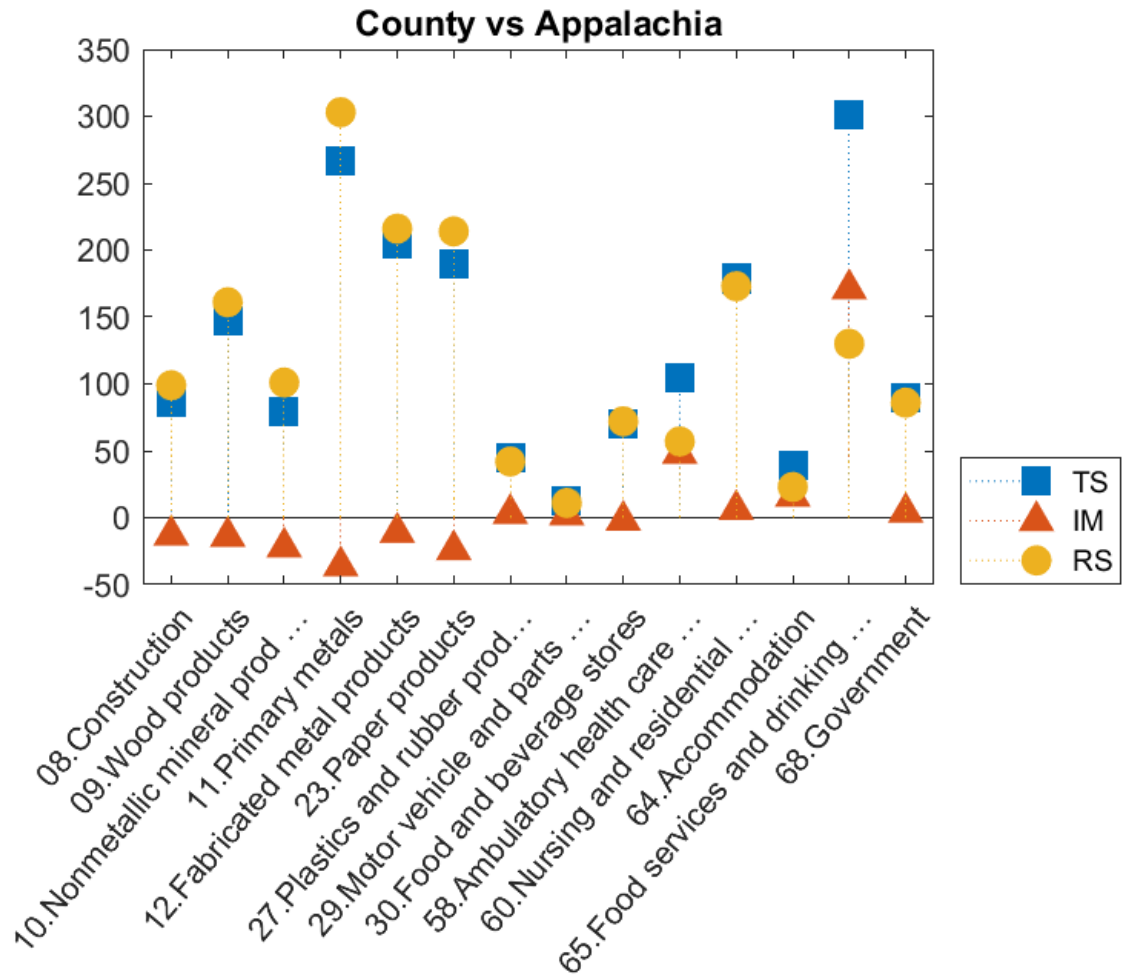


Chapter 32. Marion County, Tennessee

Marion County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | 20 | 68 | -21 | 89 | 262 |
| 09 | Wood products | 5 | 141 | -19 | 160 | 195 |
| 10 | Nonmetallic mineral prod ... | 11 | 69 | -27 | 96 | 173 |
| 11 | Primary metals | 17 | 250 | -44 | 294 | 416 |
| 12 | Fabricated metal products | 17 | 188 | -23 | 211 | 359 |
| 23 | Paper products | 17 | 174 | -54 | 228 | 340 |
| 27 | Plastics and rubber prod... | 17 | 28 | -16 | 44 | 194 |
| 29 | Motor vehicle and parts ... | 12 | 2 | -6 | 8 | 116 |
| 30 | Food and beverage stores | 12 | 58 | -2 | 60 | 177 |
| 58 | Ambulatory health care ... | 17 | 88 | 52 | 36 | 253 |
| 60 | Nursing and residential ... | 11 | 168 | 4 | 164 | 276 |
| 64 | Accommodation | 9 | 31 | 2 | 29 | 116 |
| 65 | Food services and drinking ... | 97 | 208 | 163 | 45 | 1,161 |
| 68 | Government | 34 | 57 | -23 | 80 | 391 |

Selected SSA Components for Marion County, Tennessee vs the Appalachian Region

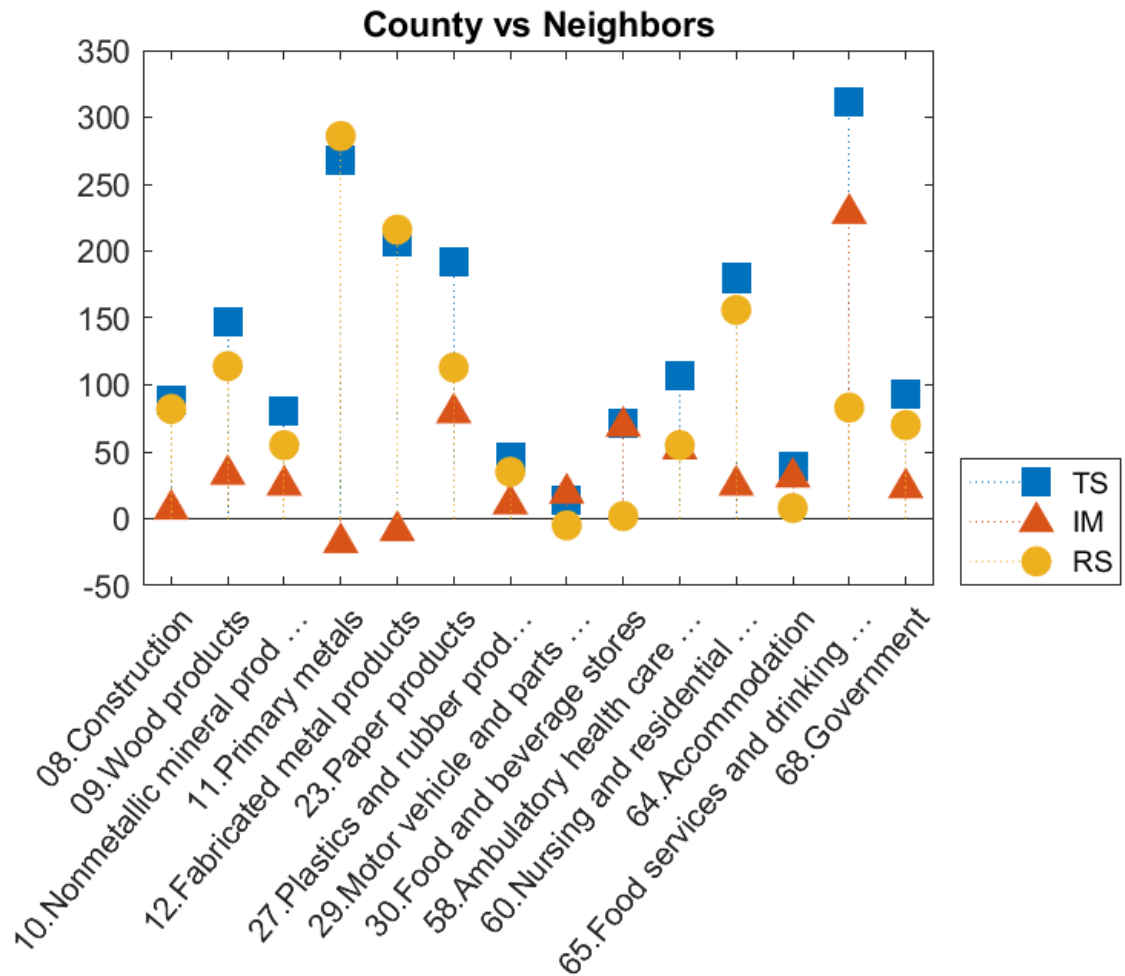


Chapter 32. Marion County, Tennessee

Selected SSA Components for Marion County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | 1 | 86 | -13 | 99 | 262 |
| 09 | Wood products | 0 | 147 | -14 | 161 | 195 |
| 10 | Nonmetallic mineral prod ... | 0 | 79 | -22 | 101 | 173 |
| 11 | Primary metals | 1 | 267 | -36 | 303 | 416 |
| 12 | Fabricated metal products | 1 | 205 | -11 | 216 | 359 |
| 23 | Paper products | 1 | 190 | -24 | 214 | 340 |
| 27 | Plastics and rubber prod... | 1 | 45 | 3 | 42 | 194 |
| 29 | Motor vehicle and parts ... | 0 | 13 | 2 | 11 | 116 |
| 30 | Food and beverage stores | 0 | 70 | -2 | 72 | 177 |
| 58 | Ambulatory health care ... | 1 | 105 | 48 | 57 | 253 |
| 60 | Nursing and residential ... | 0 | 179 | 6 | 173 | 276 |
| 64 | Accommodation | 0 | 39 | 16 | 23 | 116 |
| 65 | Food services and drinking ... | 3 | 301 | 171 | 130 | 1,161 |
| 68 | Government | 1 | 90 | 4 | 86 | 391 |

Selected SSA Components for Marion County, Tennessee vs Neighbors



Chapter 32. Marion County, Tennessee

Selected SSA Components for Marion County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | -1 | 89 | 7 | 82 | 262 |
| 09 | Wood products | -0 | 147 | 33 | 114 | 195 |
| 10 | Nonmetallic mineral prod ... | -1 | 80 | 25 | 55 | 173 |
| 11 | Primary metals | -1 | 268 | -18 | 286 | 416 |
| 12 | Fabricated metal products | -1 | 207 | -9 | 216 | 359 |
| 23 | Paper products | -1 | 192 | 79 | 113 | 340 |
| 27 | Plastics and rubber prod... | -1 | 46 | 11 | 35 | 194 |
| 29 | Motor vehicle and parts ... | -1 | 14 | 19 | -5 | 116 |
| 30 | Food and beverage stores | -1 | 71 | 69 | 2 | 177 |
| 58 | Ambulatory health care ... | -1 | 107 | 52 | 55 | 253 |
| 60 | Nursing and residential ... | -1 | 181 | 25 | 156 | 276 |
| 64 | Accommodation | -1 | 39 | 31 | 8 | 116 |
| 65 | Food services and drinking ... | -6 | 311 | 228 | 83 | 1,161 |
| 68 | Government | -2 | 93 | 23 | 70 | 391 |

Chapter 33. Meigs County, Tennessee

Employment in Meigs County, Tennessee, grew from 1,668 in 2005 to 2,151 in 2018, for a change of 483, or 28.96%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Meigs County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|-----|------|-----|
| vs. U.S. | 187 | 295 | -248 | 543 |
| vs. Appalachia | 2 | 480 | -144 | 624 |
| vs. Neighbors | 24 | 459 | -32 | 491 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Meigs County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 33. Meigs County, Tennessee

Industry Group Membership for Meigs County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 11 | Primary metals | F I a i | no | yes | yes | yes |
| 12 | Fabricated metal products | F I a i | no | yes | yes | yes |
| 13 | Machinery | F III c iii | no | yes | yes | yes |
| 15 | Electrical equipment, ... | D I a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c ii | no | yes | yes | yes |
| 39 | Other transportation ... | E I c iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c iii | no | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 65 | Food services and drinking ... | B II a ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III a i | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Meigs County, Tennessee vs. the United States

Groups a, b, and c are from Meigs County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Meigs County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Meigs County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Meigs County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Meigs County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Meigs County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

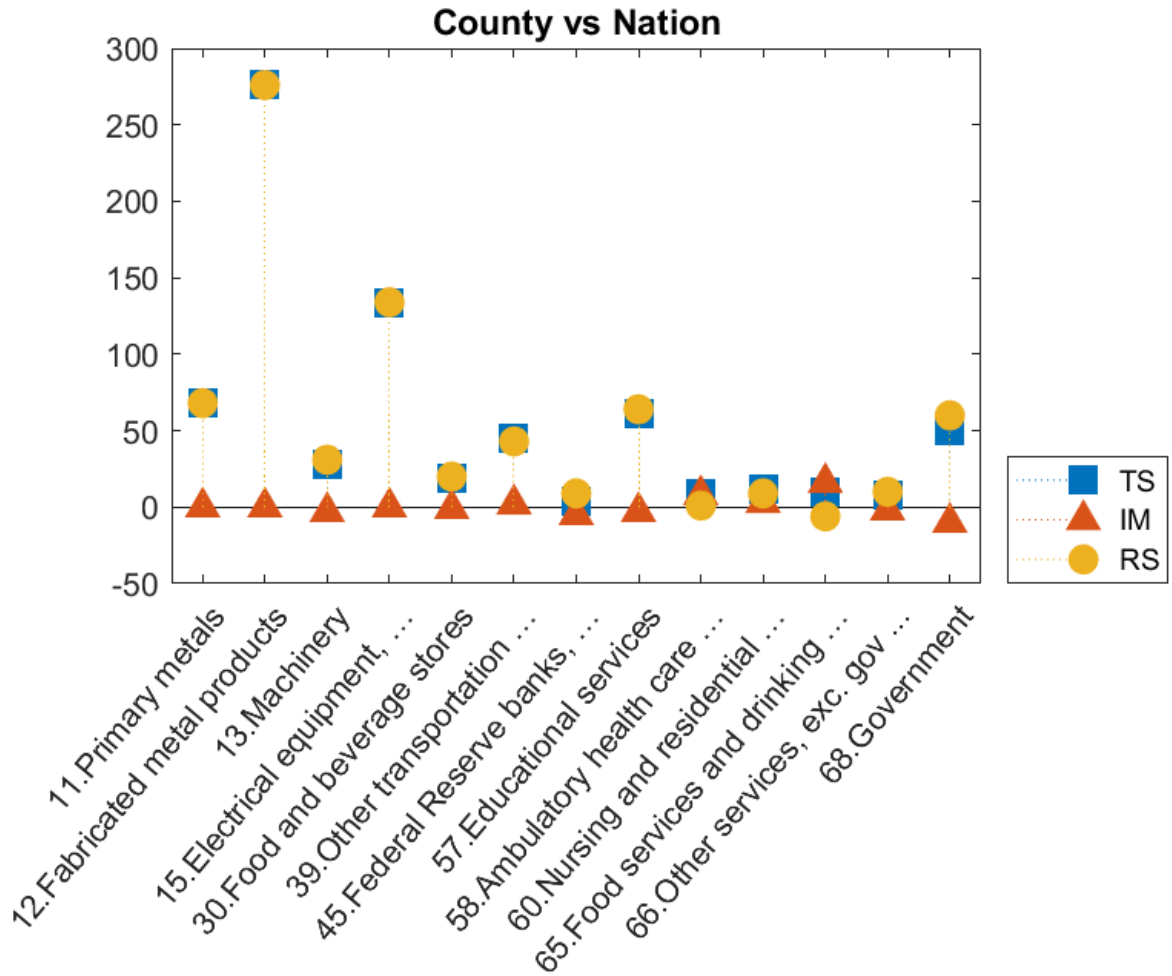
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Meigs County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Meigs County, Tennessee vs the U.S.

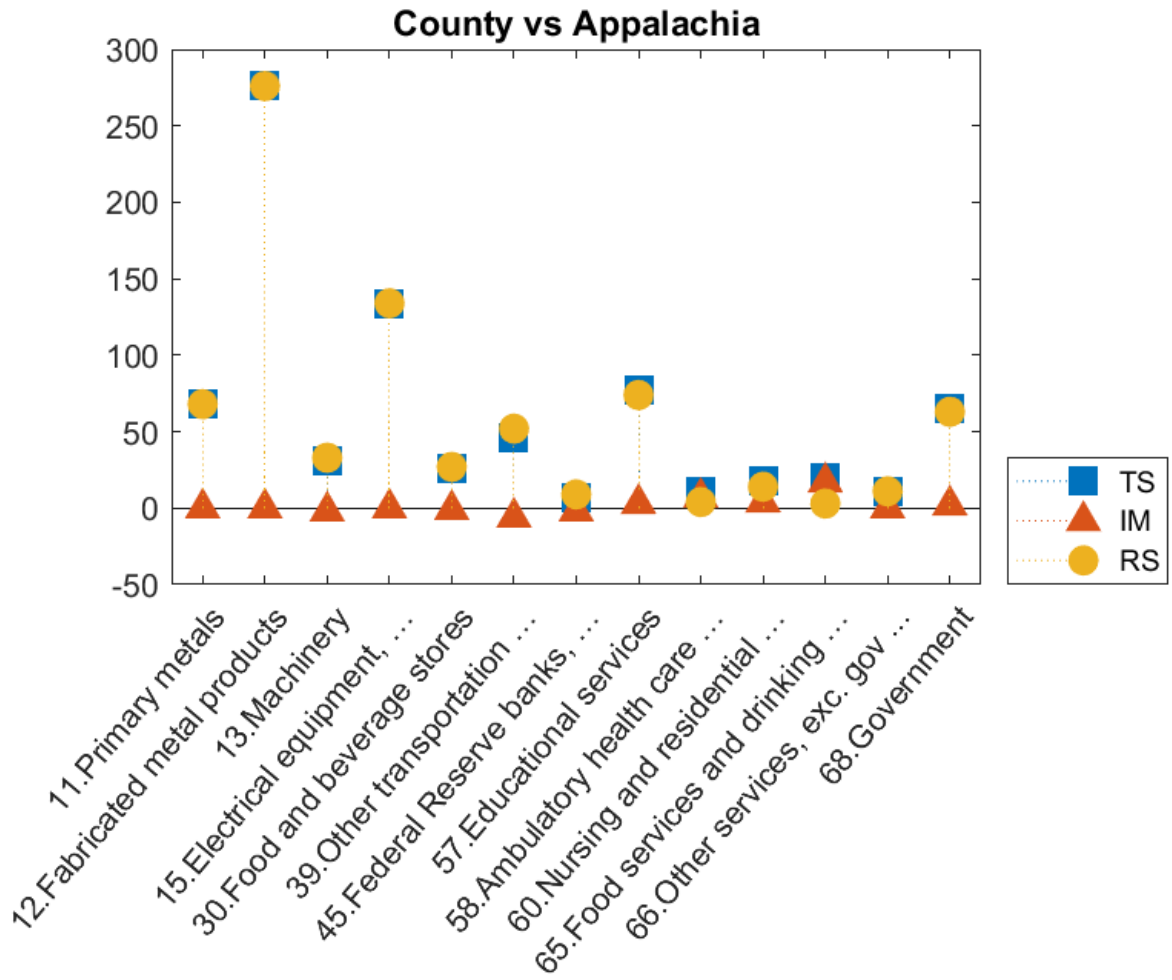


Chapter 33. Meigs County, Tennessee

Meigs County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 11 | Primary metals | 0 | 68 | 0 | 68 | 68 |
| 12 | Fabricated metal products | 0 | 276 | 0 | 276 | 276 |
| 13 | Machinery | 2 | 28 | -3 | 31 | 48 |
| 15 | Electrical equipment, ... | 0 | 134 | 0 | 134 | 134 |
| 30 | Food and beverage stores | 6 | 19 | -1 | 20 | 83 |
| 39 | Other transportation ... | 1 | 45 | 2 | 43 | 60 |
| 45 | Federal Reserve banks, ... | 3 | 4 | -5 | 9 | 31 |
| 57 | Educational services | 16 | 61 | -3 | 64 | 219 |
| 58 | Ambulatory health care ... | 2 | 9 | 8 | 1 | 33 |
| 60 | Nursing and residential ... | 6 | 12 | 3 | 9 | 75 |
| 65 | Food services and drinking ... | 9 | 10 | 16 | -6 | 104 |
| 66 | Other services, exc. gov ... | 3 | 8 | -2 | 10 | 36 |
| 68 | Government | 15 | 50 | -10 | 60 | 195 |

Selected SSA Components for Meigs County, Tennessee vs the Appalachian Region

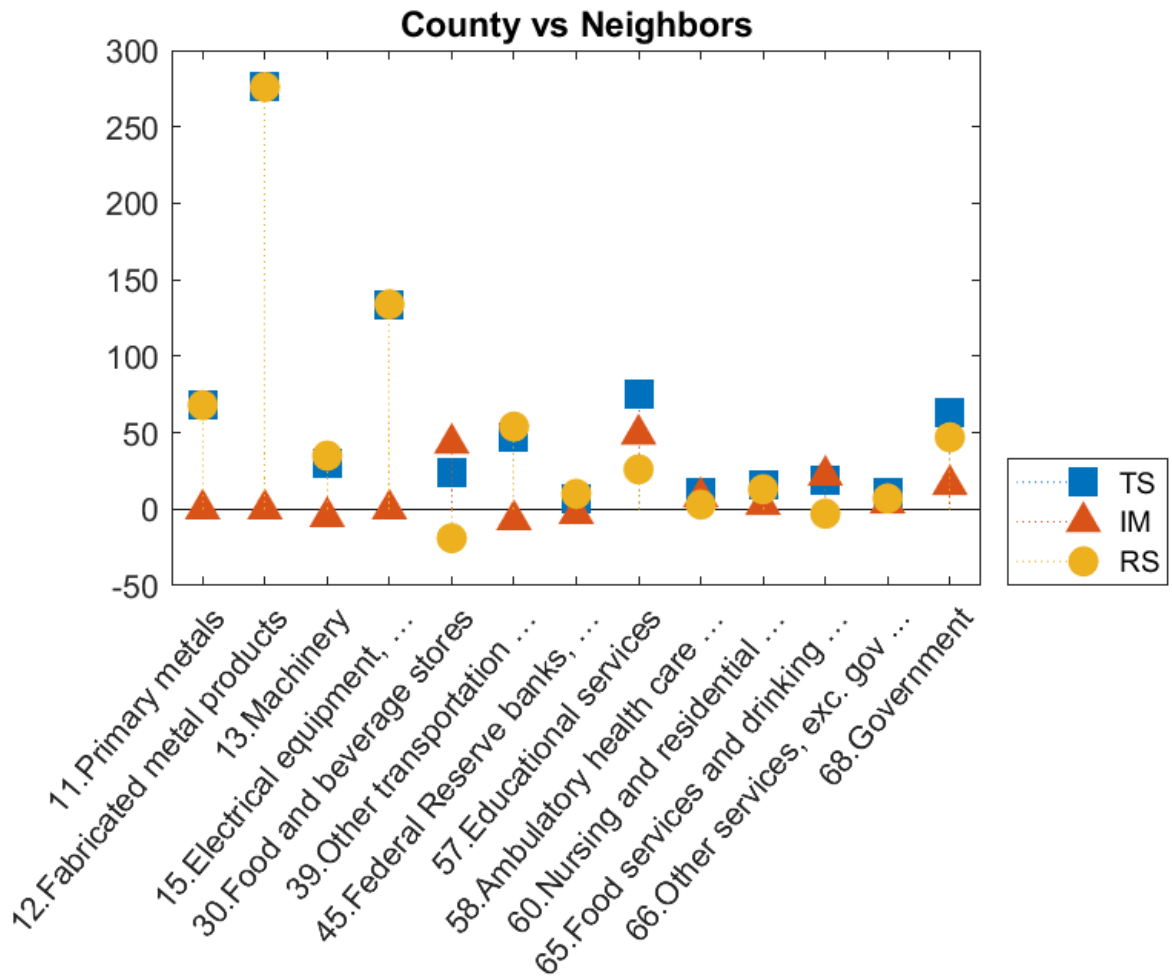


Chapter 33. Meigs County, Tennessee

Selected SSA Components for Meigs County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|----|-----|--------------------|
| 11 | Primary metals | 0 | 68 | 0 | 68 | 68 |
| 12 | Fabricated metal products | 0 | 276 | 0 | 276 | 276 |
| 13 | Machinery | 0 | 31 | -2 | 33 | 48 |
| 15 | Electrical equipment, ... | 0 | 134 | 0 | 134 | 134 |
| 30 | Food and beverage stores | 0 | 26 | -1 | 27 | 83 |
| 39 | Other transportation ... | 0 | 46 | -6 | 52 | 60 |
| 45 | Federal Reserve banks, ... | 0 | 7 | -2 | 9 | 31 |
| 57 | Educational services | 0 | 77 | 3 | 74 | 219 |
| 58 | Ambulatory health care ... | 0 | 11 | 7 | 4 | 33 |
| 60 | Nursing and residential ... | 0 | 18 | 4 | 14 | 75 |
| 65 | Food services and drinking ... | 0 | 20 | 17 | 3 | 104 |
| 66 | Other services, exc. gov ... | 0 | 11 | -0 | 11 | 36 |
| 68 | Government | 0 | 65 | 2 | 63 | 195 |

Selected SSA Components for Meigs County, Tennessee vs Neighbors



Chapter 33. Meigs County, Tennessee

Selected SSA Components for Meigs County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|----|-----|--------------------|
| 11 | Primary metals | 0 | 68 | 0 | 68 | 68 |
| 12 | Fabricated metal products | 0 | 276 | 0 | 276 | 276 |
| 13 | Machinery | 0 | 30 | -5 | 35 | 48 |
| 15 | Electrical equipment, ... | 0 | 134 | 0 | 134 | 134 |
| 30 | Food and beverage stores | 1 | 24 | 43 | -19 | 83 |
| 39 | Other transportation ... | 0 | 47 | -7 | 54 | 60 |
| 45 | Federal Reserve banks, ... | 0 | 7 | -3 | 10 | 31 |
| 57 | Educational services | 2 | 75 | 49 | 26 | 219 |
| 58 | Ambulatory health care ... | 0 | 11 | 8 | 3 | 33 |
| 60 | Nursing and residential ... | 1 | 16 | 3 | 13 | 75 |
| 65 | Food services and drinking ... | 1 | 19 | 22 | -3 | 104 |
| 66 | Other services, exc. gov ... | 0 | 11 | 4 | 7 | 36 |
| 68 | Government | 2 | 63 | 16 | 47 | 195 |

Chapter 34. Monroe County, Tennessee

Employment in Monroe County, Tennessee, declined from 14,395 in 2005 to 14,318 in 2018, for a change of -77, or -0.53%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Monroe County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 1,625 | -1,700 | -1,276 | -424 |
| vs. Appalachia | 47 | -128 | -516 | 388 |
| vs. Neighbors | 959 | -1,042 | -315 | -727 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Monroe County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 34. Monroe County, Tennessee

Industry Group Membership for Monroe County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 09 | Wood products | F III c iii | no | yes | yes | yes |
| 11 | Primary metals | F III c iii | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C IV b ii | yes | no | yes | yes |
| 27 | Plastics and rubber prod... | D III a i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a iii | no | yes | yes | yes |
| 31 | General merchandise ... | F III c iii | no | yes | yes | yes |
| 55 | Administrative and ... | A I a ii | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II a ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Monroe County, Tennessee vs. the United States

Groups a, b, and c are from Monroe County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Monroe County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Monroe County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Monroe County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Monroe County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Monroe County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

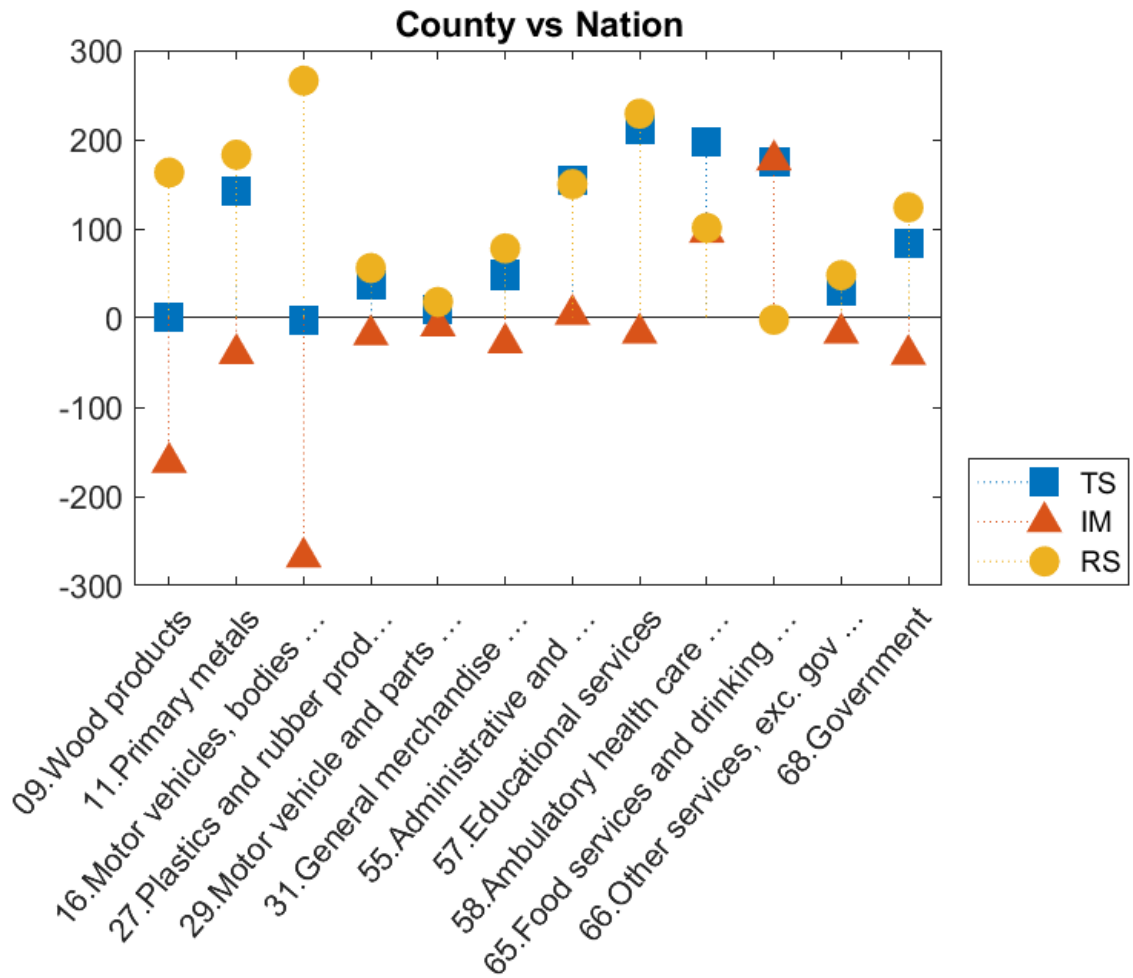
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Monroe County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Monroe County, Tennessee vs the U.S.

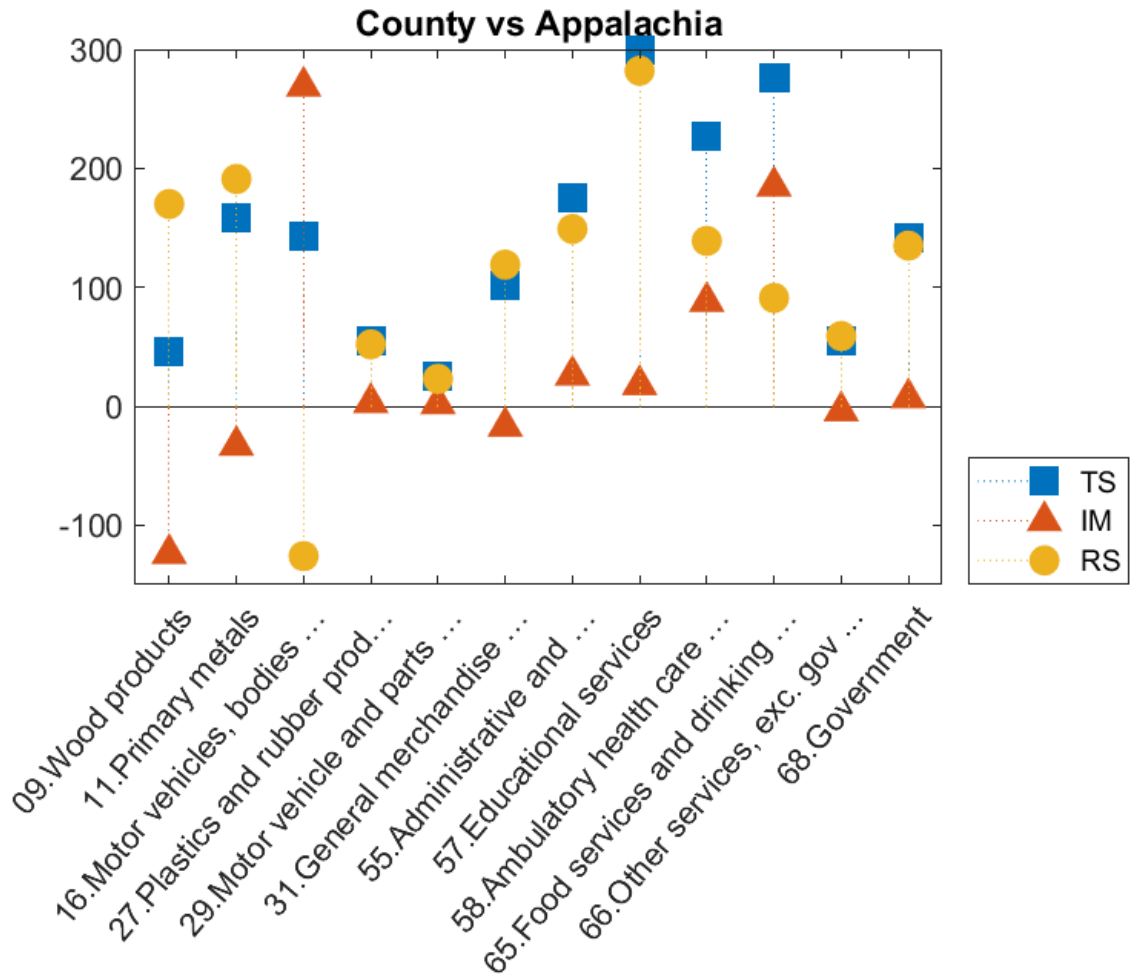


Chapter 34. Monroe County, Tennessee

Monroe County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|------|-----|--------------------|
| 09 | Wood products | 47 | 1 | -162 | 163 | 462 |
| 11 | Primary metals | 15 | 143 | -40 | 183 | 294 |
| 16 | Motor vehicles, bodies ... | 149 | -2 | -268 | 266 | 1,473 |
| 27 | Plastics and rubber prod... | 19 | 37 | -19 | 56 | 229 |
| 29 | Motor vehicle and parts ... | 17 | 9 | -9 | 18 | 179 |
| 31 | General merchandise ... | 54 | 50 | -28 | 78 | 587 |
| 55 | Administrative and ... | 22 | 154 | 4 | 150 | 369 |
| 57 | Educational services | 91 | 212 | -17 | 229 | 1,110 |
| 58 | Ambulatory health care ... | 31 | 197 | 96 | 101 | 501 |
| 65 | Food services and drinking ... | 105 | 175 | 177 | -2 | 1,206 |
| 66 | Other services, exc. gov ... | 25 | 31 | -17 | 48 | 276 |
| 68 | Government | 61 | 83 | -41 | 124 | 681 |

Selected SSA Components for Monroe County, Tennessee vs the Appalachian Region

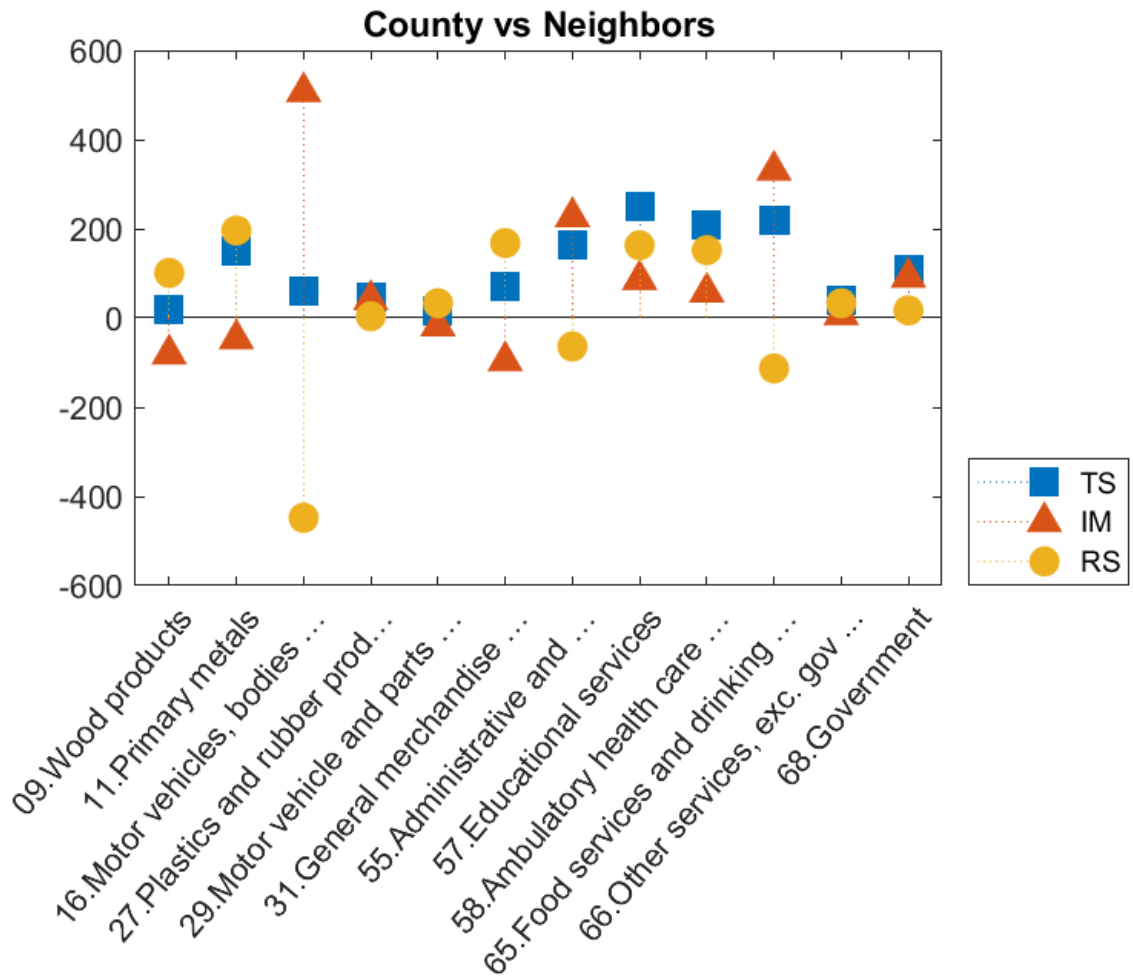


Chapter 34. Monroe County, Tennessee

Selected SSA Components for Monroe County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|------|------|--------------------|
| 09 | Wood products | 1 | 46 | -124 | 170 | 462 |
| 11 | Primary metals | 0 | 158 | -33 | 191 | 294 |
| 16 | Motor vehicles, bodies ... | 5 | 143 | 269 | -126 | 1,473 |
| 27 | Plastics and rubber prod... | 1 | 55 | 3 | 52 | 229 |
| 29 | Motor vehicle and parts ... | 1 | 25 | 2 | 23 | 179 |
| 31 | General merchandise ... | 2 | 102 | -17 | 119 | 587 |
| 55 | Administrative and ... | 1 | 175 | 26 | 149 | 369 |
| 57 | Educational services | 3 | 300 | 18 | 282 | 1,110 |
| 58 | Ambulatory health care ... | 1 | 227 | 88 | 139 | 501 |
| 65 | Food services and drinking ... | 3 | 276 | 185 | 91 | 1,206 |
| 66 | Other services, exc. gov ... | 1 | 55 | -4 | 59 | 276 |
| 68 | Government | 2 | 142 | 7 | 135 | 681 |

Selected SSA Components for Monroe County, Tennessee vs Neighbors



Chapter 34. Monroe County, Tennessee

Selected SSA Components for Monroe County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|------|--------------------|
| 09 | Wood products | 28 | 20 | -81 | 101 | 462 |
| 11 | Primary metals | 9 | 149 | -47 | 196 | 294 |
| 16 | Motor vehicles, bodies ... | 88 | 59 | 507 | -448 | 1,473 |
| 27 | Plastics and rubber prod... | 12 | 45 | 41 | 4 | 229 |
| 29 | Motor vehicle and parts ... | 10 | 15 | -18 | 33 | 179 |
| 31 | General merchandise ... | 32 | 72 | -96 | 168 | 587 |
| 55 | Administrative and ... | 13 | 163 | 227 | -64 | 369 |
| 57 | Educational services | 54 | 249 | 86 | 163 | 1,110 |
| 58 | Ambulatory health care ... | 18 | 210 | 58 | 152 | 501 |
| 65 | Food services and drinking ... | 62 | 218 | 331 | -113 | 1,206 |
| 66 | Other services, exc. gov ... | 15 | 40 | 7 | 33 | 276 |
| 68 | Government | 36 | 108 | 91 | 17 | 681 |

Chapter 35. Morgan County, Tennessee

Employment in Morgan County, Tennessee, declined from 2,576 in 2005 to 2,568 in 2018, for a change of -8, or -0.31%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Morgan County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|------|-----|------|
| vs. U.S. | 291 | -297 | 24 | -321 |
| vs. Appalachia | 6 | -15 | 69 | -84 |
| vs. Neighbors | 6 | -13 | -10 | -3 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Morgan County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 35. Morgan County, Tennessee

Industry Group Membership for Morgan County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 02 | Forestry, fishing, and ... | E I c i | no | yes | yes | yes |
| 11 | Primary metals | F III c iii | no | yes | yes | yes |
| 15 | Electrical equipment, ... | D III c i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 36 | Truck transportation | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B V b ii | yes | no | yes | yes |
| 59 | Hospitals | E I a i | no | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c ii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Morgan County, Tennessee vs. the United States

Groups a, b, and c are from Morgan County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Morgan County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Morgan County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Morgan County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Morgan County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Morgan County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

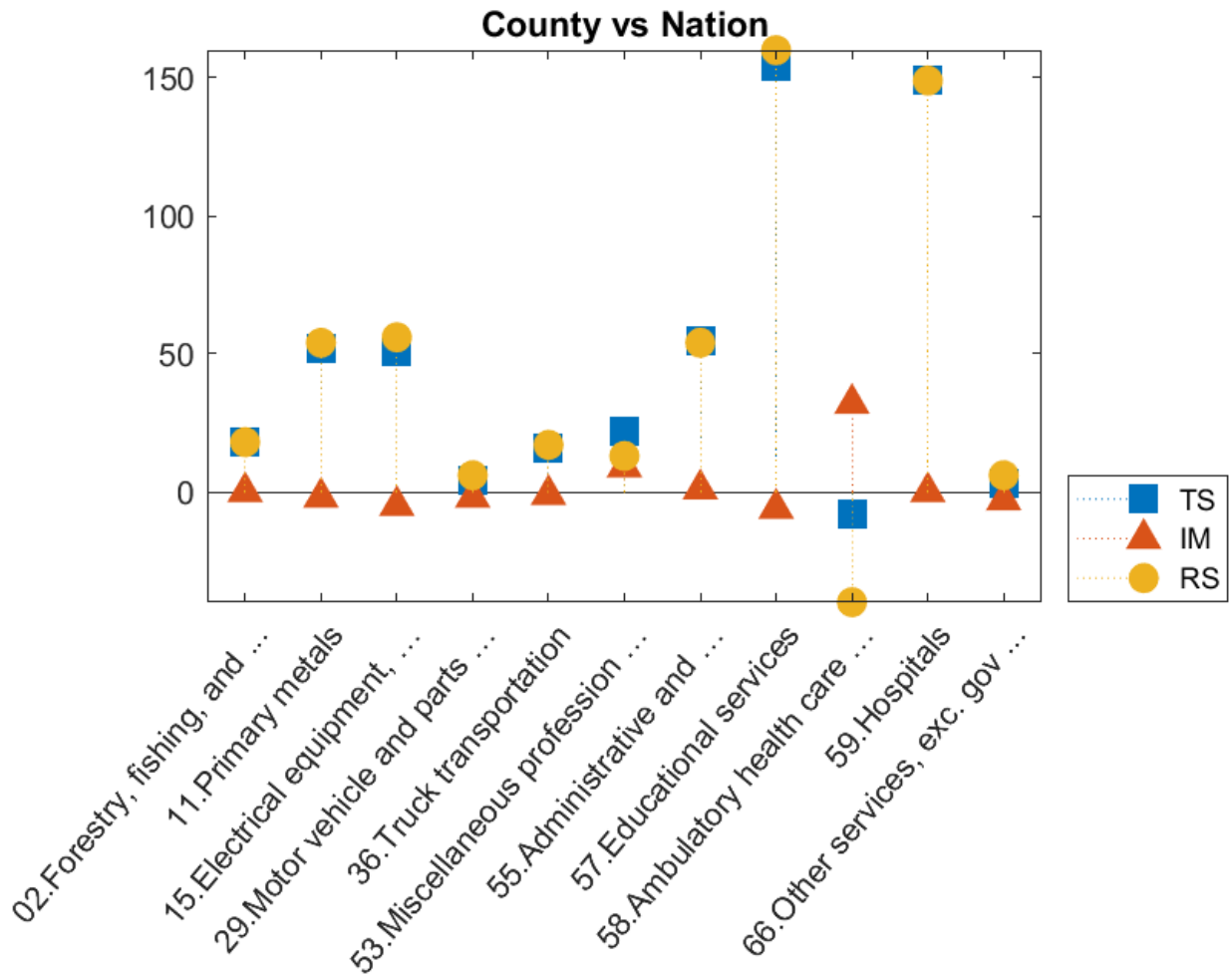
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Morgan County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Morgan County, Tennessee vs the U.S.

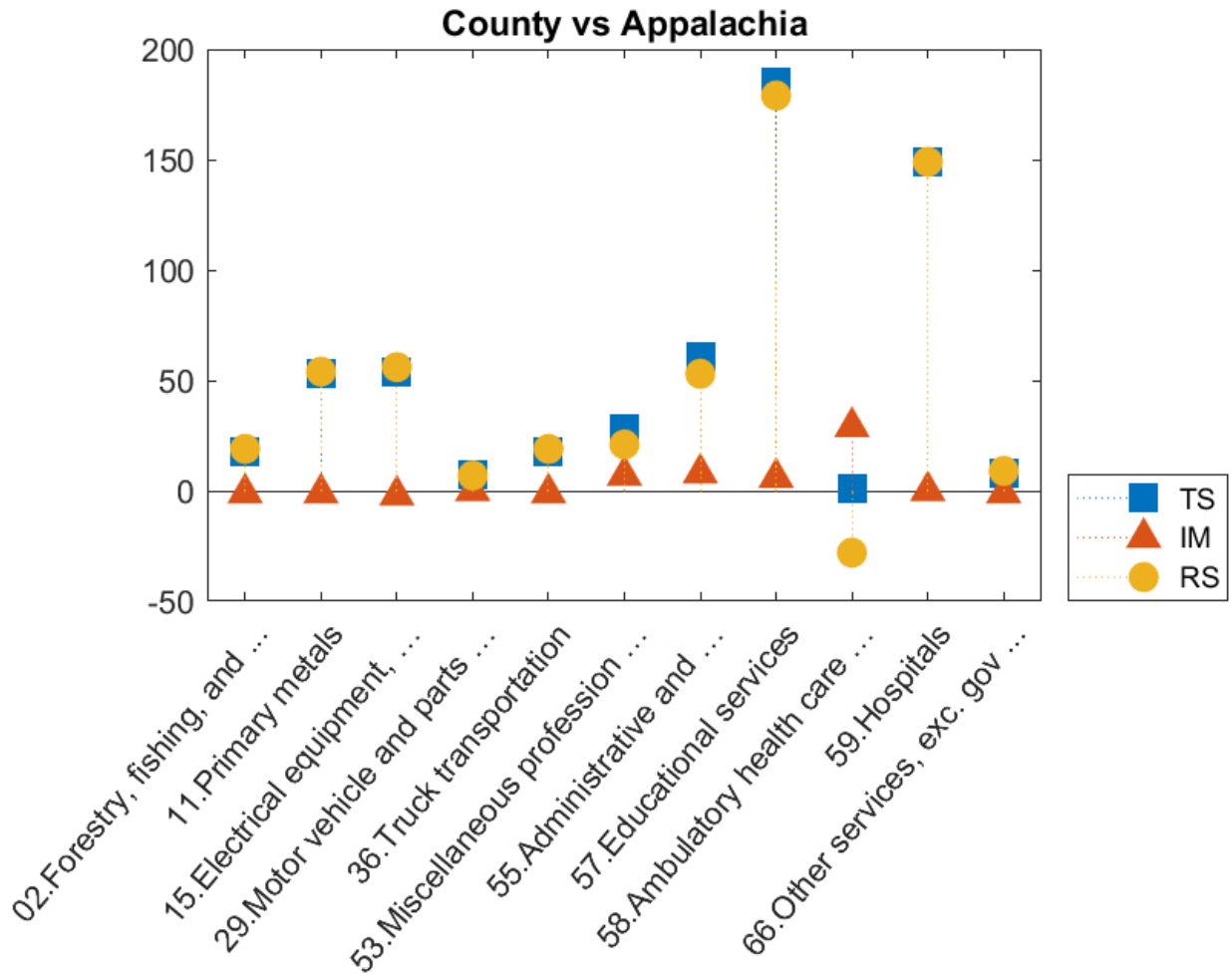


Chapter 35. Morgan County, Tennessee

Morgan County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------------|----|-----|----|-----|--------------------|
| 02 | Forestry, fishing, and ... | 1 | 18 | 0 | 18 | 26 |
| 11 | Primary metals | 1 | 52 | -2 | 54 | 59 |
| 15 | Electrical equipment, ... | 3 | 51 | -5 | 56 | 82 |
| 29 | Motor vehicle and parts ... | 3 | 4 | -2 | 6 | 32 |
| 36 | Truck transportation | 2 | 16 | -1 | 17 | 36 |
| 53 | Miscellaneous profession ... | 6 | 22 | 9 | 13 | 79 |
| 55 | Administrative and ... | 6 | 55 | 1 | 54 | 117 |
| 57 | Educational services | 32 | 154 | -6 | 160 | 466 |
| 58 | Ambulatory health care ... | 10 | -8 | 32 | -40 | 93 |
| 59 | Hospitals | 0 | 149 | 0 | 149 | 149 |
| 66 | Other services, exc. gov ... | 5 | 3 | -3 | 6 | 52 |

Selected SSA Components for Morgan County, Tennessee vs the Appalachian Region

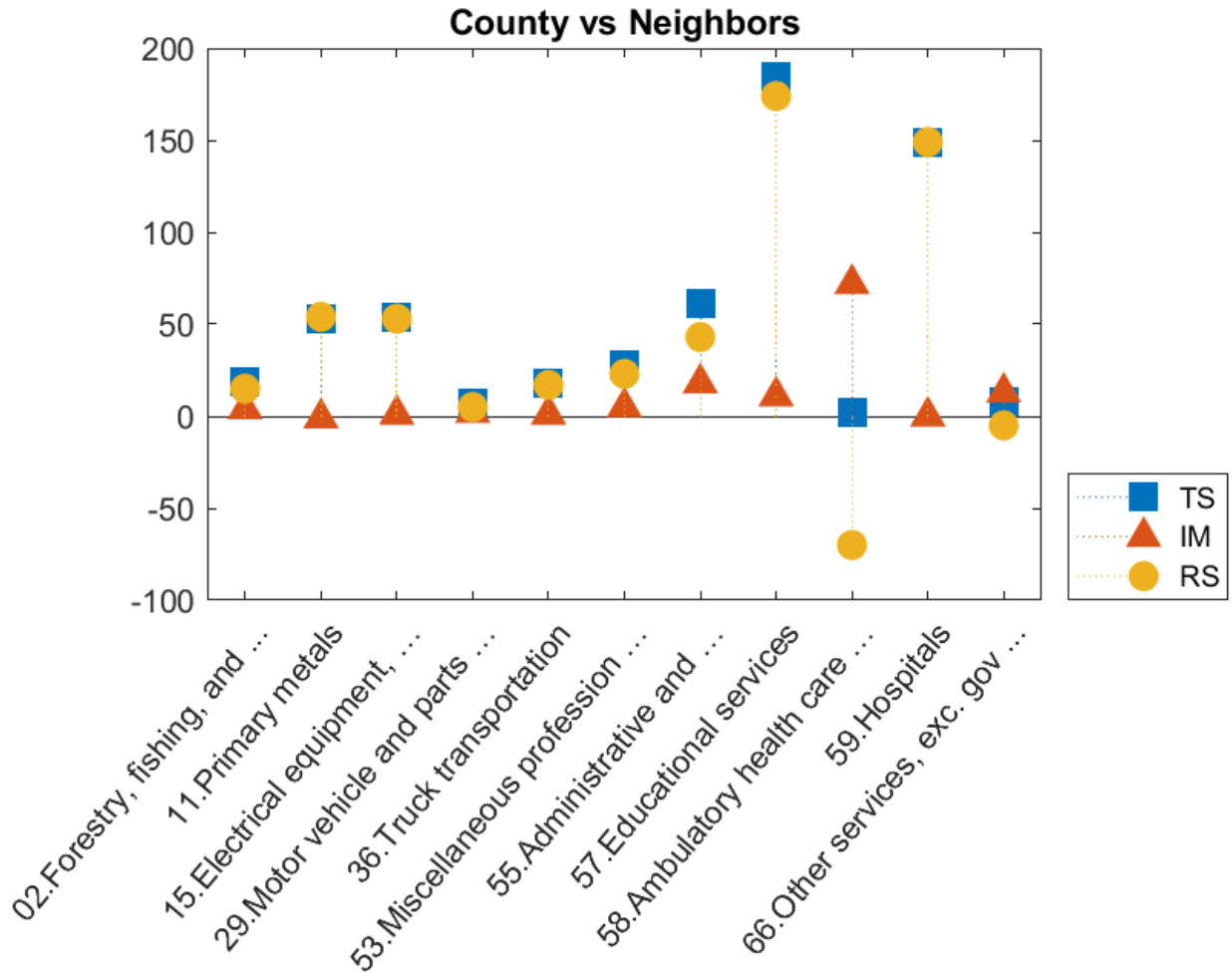


Chapter 35. Morgan County, Tennessee

Selected SSA Components for Morgan County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------|----|-----|----|-----|--------------------|
| 02 | Forestry, fishing, and ... | 0 | 18 | -1 | 19 | 26 |
| 11 | Primary metals | 0 | 53 | -1 | 54 | 59 |
| 15 | Electrical equipment, ... | 0 | 54 | -2 | 56 | 82 |
| 29 | Motor vehicle and parts ... | 0 | 7 | 0 | 7 | 32 |
| 36 | Truck transportation | 0 | 18 | -1 | 19 | 36 |
| 53 | Miscellaneous profession ... | 0 | 28 | 7 | 21 | 79 |
| 55 | Administrative and ... | 0 | 61 | 8 | 53 | 117 |
| 57 | Educational services | 1 | 185 | 6 | 179 | 466 |
| 58 | Ambulatory health care ... | 0 | 1 | 29 | -28 | 93 |
| 59 | Hospitals | 0 | 149 | 0 | 149 | 149 |
| 66 | Other services, exc. gov ... | 0 | 8 | -1 | 9 | 52 |

Selected SSA Components for Morgan County, Tennessee vs Neighbors



Chapter 35. Morgan County, Tennessee

Selected SSA Components for Morgan County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------------|----|-----|----|-----|--------------------|
| 02 | Forestry, fishing, and ... | 0 | 19 | 4 | 15 | 26 |
| 11 | Primary metals | 0 | 53 | -1 | 54 | 59 |
| 15 | Electrical equipment, ... | 0 | 54 | 1 | 53 | 82 |
| 29 | Motor vehicle and parts ... | 0 | 7 | 2 | 5 | 32 |
| 36 | Truck transportation | 0 | 18 | 1 | 17 | 36 |
| 53 | Miscellaneous profession ... | 0 | 28 | 5 | 23 | 79 |
| 55 | Administrative and ... | 0 | 61 | 18 | 43 | 117 |
| 57 | Educational services | 1 | 185 | 11 | 174 | 466 |
| 58 | Ambulatory health care ... | 0 | 2 | 72 | -70 | 93 |
| 59 | Hospitals | 0 | 149 | 0 | 149 | 149 |
| 66 | Other services, exc. gov ... | 0 | 8 | 13 | -5 | 52 |

Chapter 36. Overton County, Tennessee

Employment in Overton County, Tennessee, grew from 4,580 in 2005 to 5,069 in 2018, for a change of 489, or 10.68%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Overton County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 520 | -25 | -203 | 178 |
| vs. Appalachia | 11 | 472 | 60 | 412 |
| vs. Neighbors | 174 | 310 | -183 | 493 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Overton County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 36. Overton County, Tennessee

Industry Group Membership for Overton County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 01 | Farms | F I a i | no | yes | yes | yes |
| 05 | Mining, except coal, oil ... | F III c iii | no | yes | yes | yes |
| 08 | Construction | F III c i | no | yes | yes | yes |
| 09 | Wood products | F III c iii | no | yes | yes | yes |
| 13 | Machinery | F III c i | no | yes | yes | yes |
| 20 | Food and beverage ... | E I c iii | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D III a i | no | yes | yes | yes |
| 28 | Wholesale trade | F III c i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c ii | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a ii | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Overton County, Tennessee vs. the United States

Groups a, b, and c are from Overton County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Overton County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Overton County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Overton County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Overton County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Overton County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

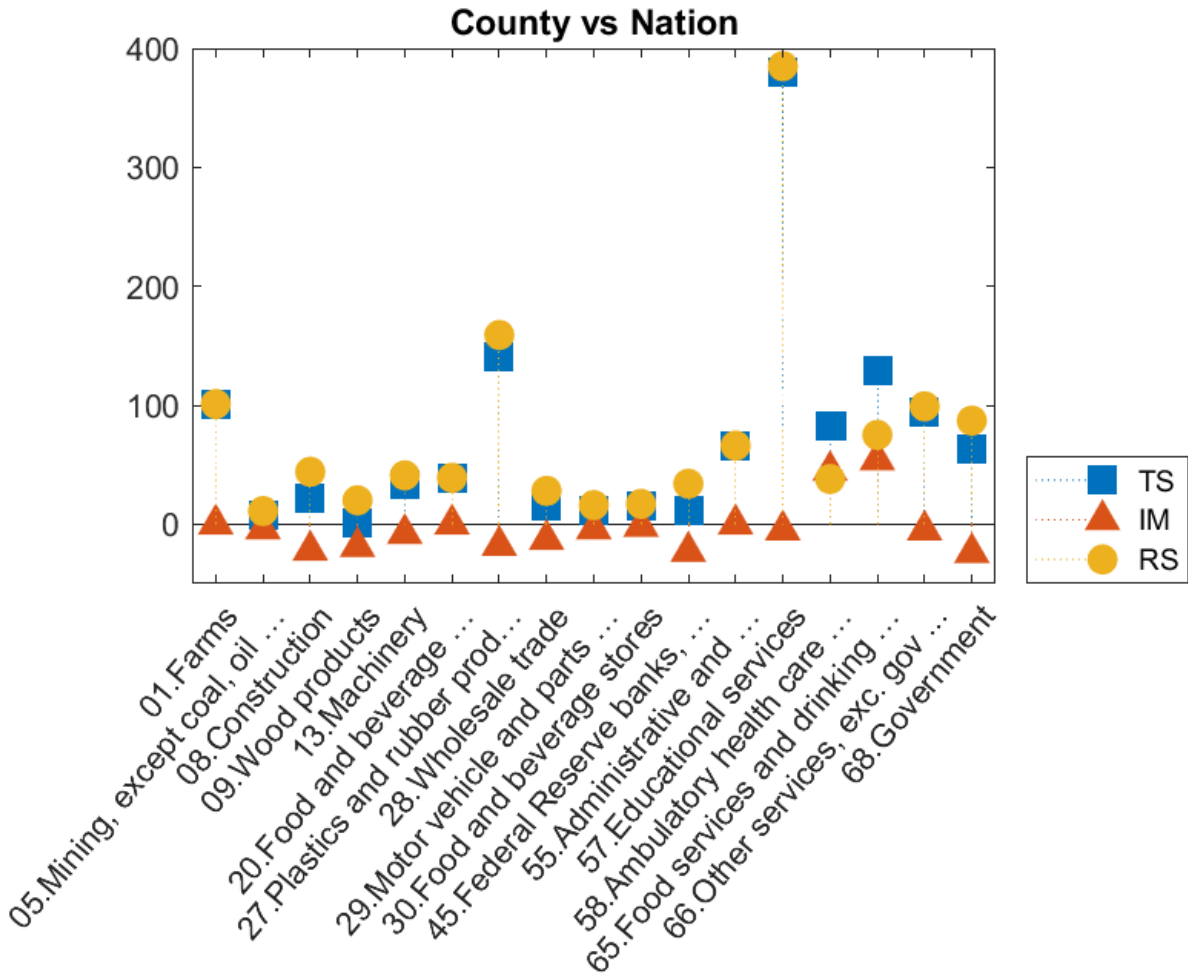
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Overton County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Overton County, Tennessee vs the U.S.

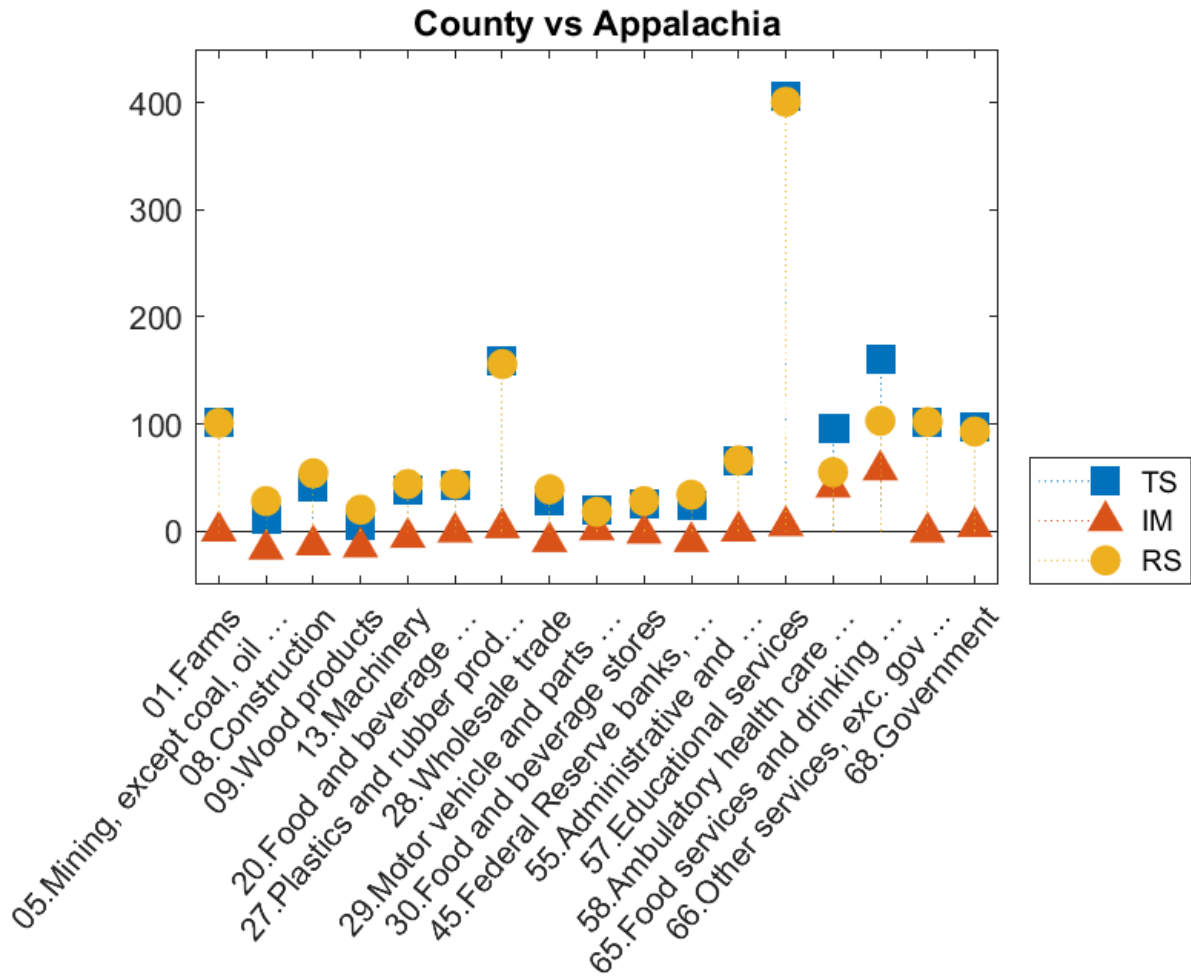


Chapter 36. Overton County, Tennessee

Overton County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 01 | Farms | 1 | 101 | -0 | 101 | 108 |
| 05 | Mining, except coal, oil ... | 5 | 7 | -4 | 11 | 53 |
| 08 | Construction | 20 | 22 | -22 | 44 | 221 |
| 09 | Wood products | 6 | 1 | -19 | 20 | 55 |
| 13 | Machinery | 5 | 33 | -8 | 41 | 86 |
| 20 | Food and beverage ... | 3 | 39 | 0 | 39 | 72 |
| 27 | Plastics and rubber prod... | 18 | 141 | -18 | 159 | 320 |
| 28 | Wholesale trade | 15 | 15 | -13 | 28 | 163 |
| 29 | Motor vehicle and parts ... | 7 | 12 | -4 | 16 | 78 |
| 30 | Food and beverage stores | 12 | 15 | -2 | 17 | 128 |
| 45 | Federal Reserve banks, ... | 13 | 11 | -23 | 34 | 141 |
| 55 | Administrative and ... | 0 | 66 | 0 | 66 | 68 |
| 57 | Educational services | 27 | 380 | -5 | 385 | 648 |
| 58 | Ambulatory health care ... | 14 | 83 | 45 | 38 | 225 |
| 65 | Food services and drinking ... | 32 | 129 | 54 | 75 | 444 |
| 66 | Other services, exc. gov ... | 7 | 94 | -5 | 99 | 165 |
| 68 | Government | 36 | 63 | -24 | 87 | 420 |

Selected SSA Components for Overton County, Tennessee vs the Appalachian Region

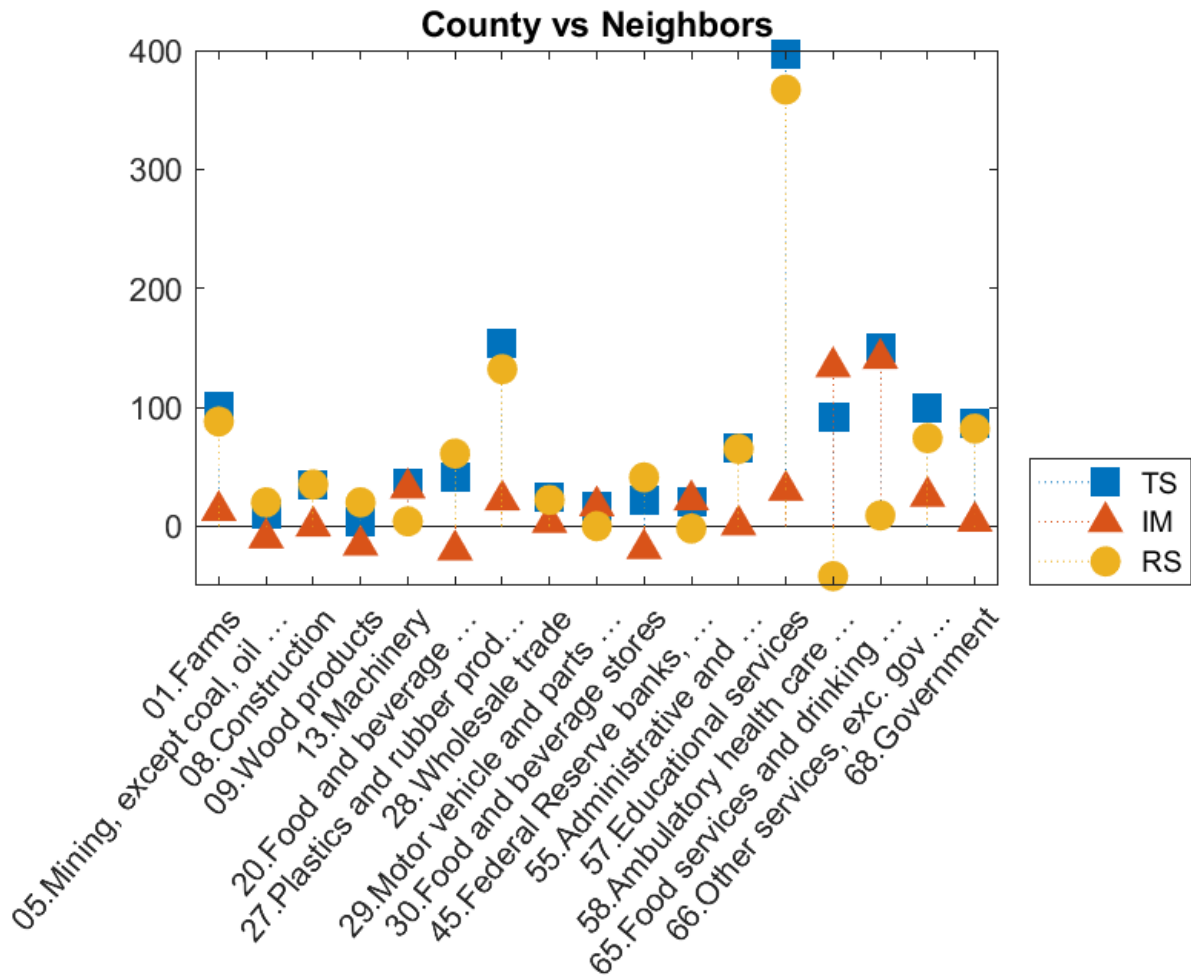


Chapter 36. Overton County, Tennessee

Selected SSA Components for Overton County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 01 | Farms | 0 | 101 | 0 | 101 | 108 |
| 05 | Mining, except coal, oil ... | 0 | 11 | -17 | 28 | 53 |
| 08 | Construction | 1 | 41 | -13 | 54 | 221 |
| 09 | Wood products | 0 | 5 | -15 | 20 | 55 |
| 13 | Machinery | 0 | 38 | -6 | 44 | 86 |
| 20 | Food and beverage ... | 0 | 43 | -1 | 44 | 72 |
| 27 | Plastics and rubber prod... | 1 | 159 | 3 | 156 | 320 |
| 28 | Wholesale trade | 0 | 29 | -10 | 39 | 163 |
| 29 | Motor vehicle and parts ... | 0 | 19 | 1 | 18 | 78 |
| 30 | Food and beverage stores | 0 | 26 | -2 | 28 | 128 |
| 45 | Federal Reserve banks, ... | 0 | 24 | -10 | 34 | 141 |
| 55 | Administrative and ... | 0 | 66 | 0 | 66 | 68 |
| 57 | Educational services | 1 | 406 | 5 | 401 | 648 |
| 58 | Ambulatory health care ... | 0 | 96 | 41 | 55 | 225 |
| 65 | Food services and drinking ... | 1 | 160 | 57 | 103 | 444 |
| 66 | Other services, exc. gov ... | 0 | 101 | -1 | 102 | 165 |
| 68 | Government | 1 | 97 | 4 | 93 | 420 |

Selected SSA Components for Overton County, Tennessee vs Neighbors



Chapter 36. Overton County, Tennessee

Selected SSA Components for Overton County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 01 | Farms | 0 | 101 | 13 | 88 | 108 |
| 05 | Mining, except coal, oil ... | 2 | 10 | -10 | 20 | 53 |
| 08 | Construction | 7 | 35 | 0 | 35 | 221 |
| 09 | Wood products | 2 | 4 | -16 | 20 | 55 |
| 13 | Machinery | 2 | 36 | 32 | 4 | 86 |
| 20 | Food and beverage ... | 1 | 41 | -20 | 61 | 72 |
| 27 | Plastics and rubber prod... | 6 | 154 | 22 | 132 | 320 |
| 28 | Wholesale trade | 5 | 25 | 3 | 22 | 163 |
| 29 | Motor vehicle and parts ... | 2 | 17 | 17 | -0 | 78 |
| 30 | Food and beverage stores | 4 | 22 | -19 | 41 | 128 |
| 45 | Federal Reserve banks, ... | 5 | 20 | 22 | -2 | 141 |
| 55 | Administrative and ... | 0 | 66 | 1 | 65 | 68 |
| 57 | Educational services | 9 | 397 | 30 | 367 | 648 |
| 58 | Ambulatory health care ... | 5 | 92 | 134 | -42 | 225 |
| 65 | Food services and drinking ... | 11 | 150 | 141 | 9 | 444 |
| 66 | Other services, exc. gov ... | 2 | 99 | 25 | 74 | 165 |
| 68 | Government | 12 | 86 | 4 | 82 | 420 |

Chapter 37. Pickett County, Tennessee

Employment in Pickett County, Tennessee, declined from 1,816 in 2005 to 1,118 in 2018, for a change of -698, or -38.44%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Pickett County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|------|------|------|------|
| vs. U.S. | 206 | -905 | -118 | -787 |
| vs. Appalachia | 4 | -704 | -18 | -686 |
| vs. Neighbors | -174 | -522 | 83 | -605 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Pickett County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 37. Pickett County, Tennessee

Industry Group Membership for Pickett County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|--------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 13 | Machinery | F III c i | no | yes | yes | yes |
| 28 | Wholesale trade | F III c i | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E II a iii | no | yes | yes | yes |
| 63 | Amusements, gambling, ... | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Pickett County, Tennessee vs. the United States

Groups a, b, and c are from Pickett County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Pickett County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Pickett County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Pickett County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Pickett County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Pickett County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

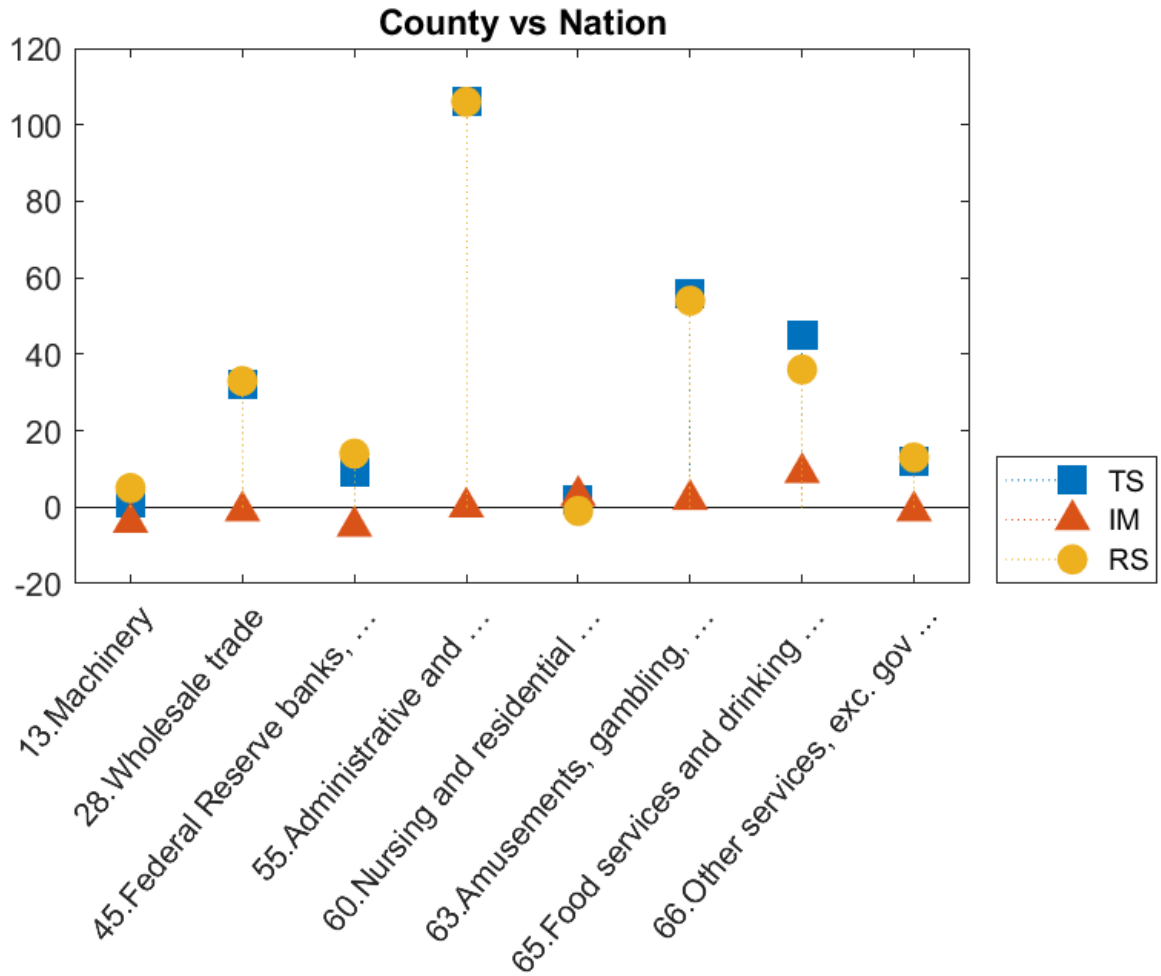
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Pickett County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Pickett County, Tennessee vs the U.S.

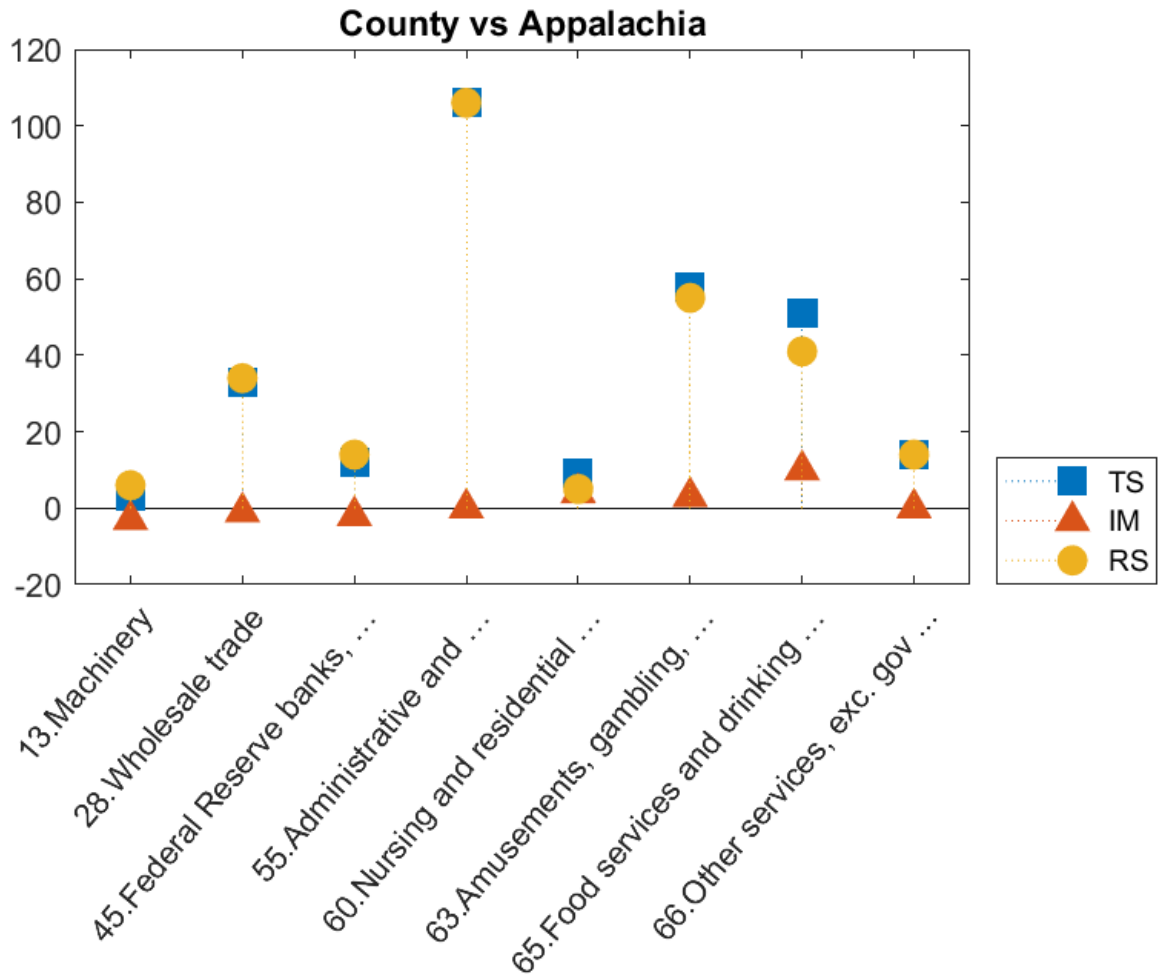


Chapter 37. Pickett County, Tennessee

Pickett County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|----|-----|--------------------|
| 13 | Machinery | 3 | 1 | -4 | 5 | 27 |
| 28 | Wholesale trade | 2 | 32 | -1 | 33 | 47 |
| 45 | Federal Reserve banks, ... | 3 | 9 | -5 | 14 | 38 |
| 55 | Administrative and ... | 0 | 106 | 0 | 106 | 106 |
| 60 | Nursing and residential ... | 7 | 2 | 3 | -1 | 71 |
| 63 | Amusements, gambling, ... | 3 | 56 | 2 | 54 | 81 |
| 65 | Food services and drinking ... | 6 | 45 | 9 | 36 | 100 |
| 66 | Other services, exc. gov ... | 2 | 12 | -1 | 13 | 27 |

Selected SSA Components for Pickett County, Tennessee vs the Appalachian Region

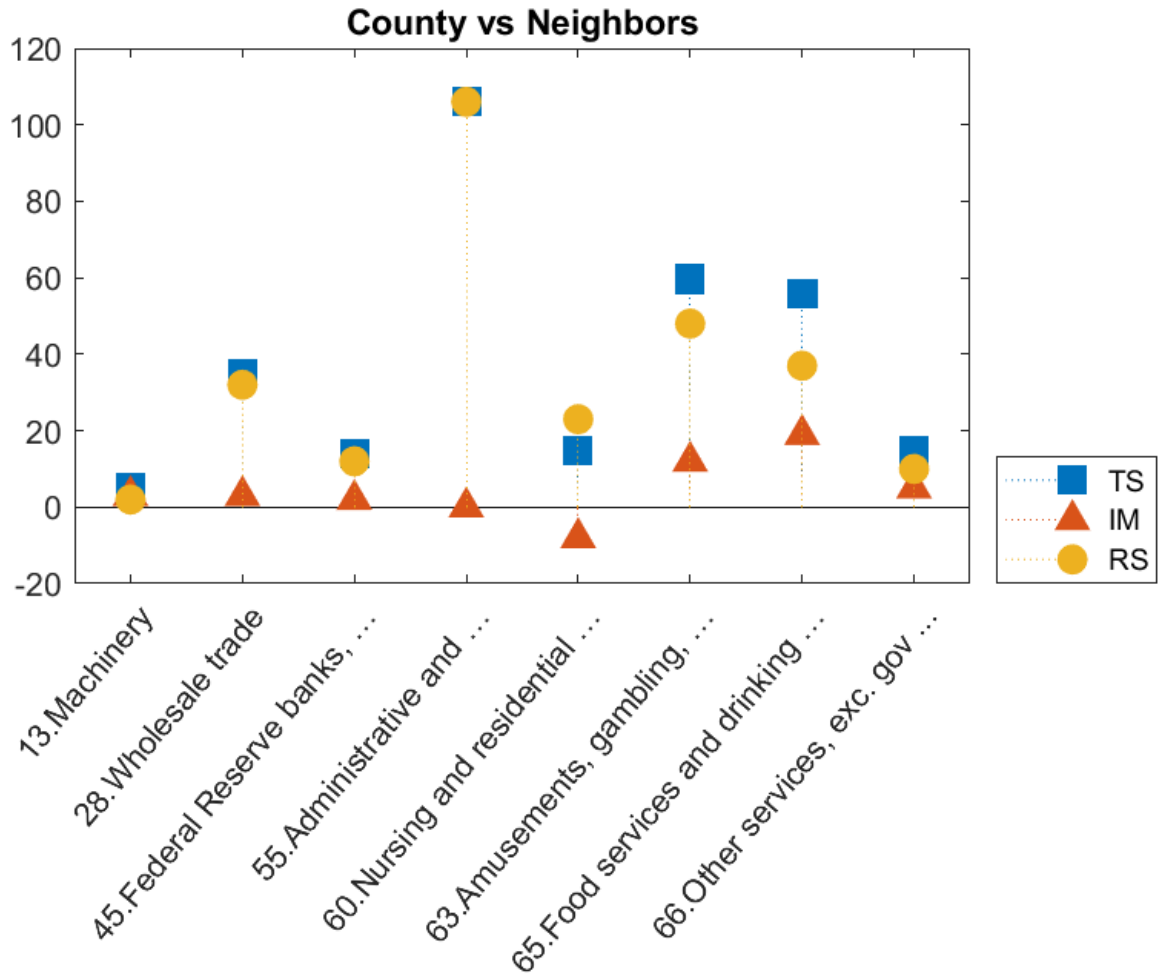


Chapter 37. Pickett County, Tennessee

Selected SSA Components for Pickett County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|----|-----|--------------------|
| 13 | Machinery | 0 | 3 | -3 | 6 | 27 |
| 28 | Wholesale trade | 0 | 33 | -1 | 34 | 47 |
| 45 | Federal Reserve banks, ... | 0 | 12 | -2 | 14 | 38 |
| 55 | Administrative and ... | 0 | 106 | 0 | 106 | 106 |
| 60 | Nursing and residential ... | 0 | 9 | 4 | 5 | 71 |
| 63 | Amusements, gambling, ... | 0 | 58 | 3 | 55 | 81 |
| 65 | Food services and drinking ... | 0 | 51 | 10 | 41 | 100 |
| 66 | Other services, exc. gov ... | 0 | 14 | -0 | 14 | 27 |

Selected SSA Components for Pickett County, Tennessee vs Neighbors



Chapter 37. Pickett County, Tennessee

Selected SSA Components for Pickett County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|----|-----|--------------------|
| 13 | Machinery | -2 | 5 | 3 | 2 | 27 |
| 28 | Wholesale trade | -1 | 35 | 3 | 32 | 47 |
| 45 | Federal Reserve banks, ... | -3 | 14 | 2 | 12 | 38 |
| 55 | Administrative and ... | -0 | 106 | 0 | 106 | 106 |
| 60 | Nursing and residential ... | -6 | 15 | -8 | 23 | 71 |
| 63 | Amusements, gambling, ... | -2 | 60 | 12 | 48 | 81 |
| 65 | Food services and drinking ... | -5 | 56 | 19 | 37 | 100 |
| 66 | Other services, exc. gov ... | -1 | 15 | 5 | 10 | 27 |

Chapter 38. Polk County, Tennessee

Employment in Polk County, Tennessee, declined from 2,844 in 2005 to 2,307 in 2018, for a change of -537, or -18.88%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Polk County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|------|-----|------|
| vs. U.S. | 322 | -856 | -47 | -809 |
| vs. Appalachia | 6 | -542 | 49 | -591 |
| vs. Neighbors | -27 | -500 | 157 | -657 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Polk County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 38. Polk County, Tennessee

Industry Group Membership for Polk County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 08 | Construction | F III c iii | no | yes | yes | yes |
| 19 | Miscellaneous manufac ... | F III c iii | no | yes | yes | yes |
| 28 | Wholesale trade | F III c iii | no | yes | yes | yes |
| 36 | Truck transportation | F III c iii | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 63 | Amusements, gambling, ... | B I a i | yes | yes | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B V b ii | yes | no | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Polk County, Tennessee vs. the United States

Groups a, b, and c are from Polk County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Polk County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Polk County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Polk County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Polk County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Polk County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

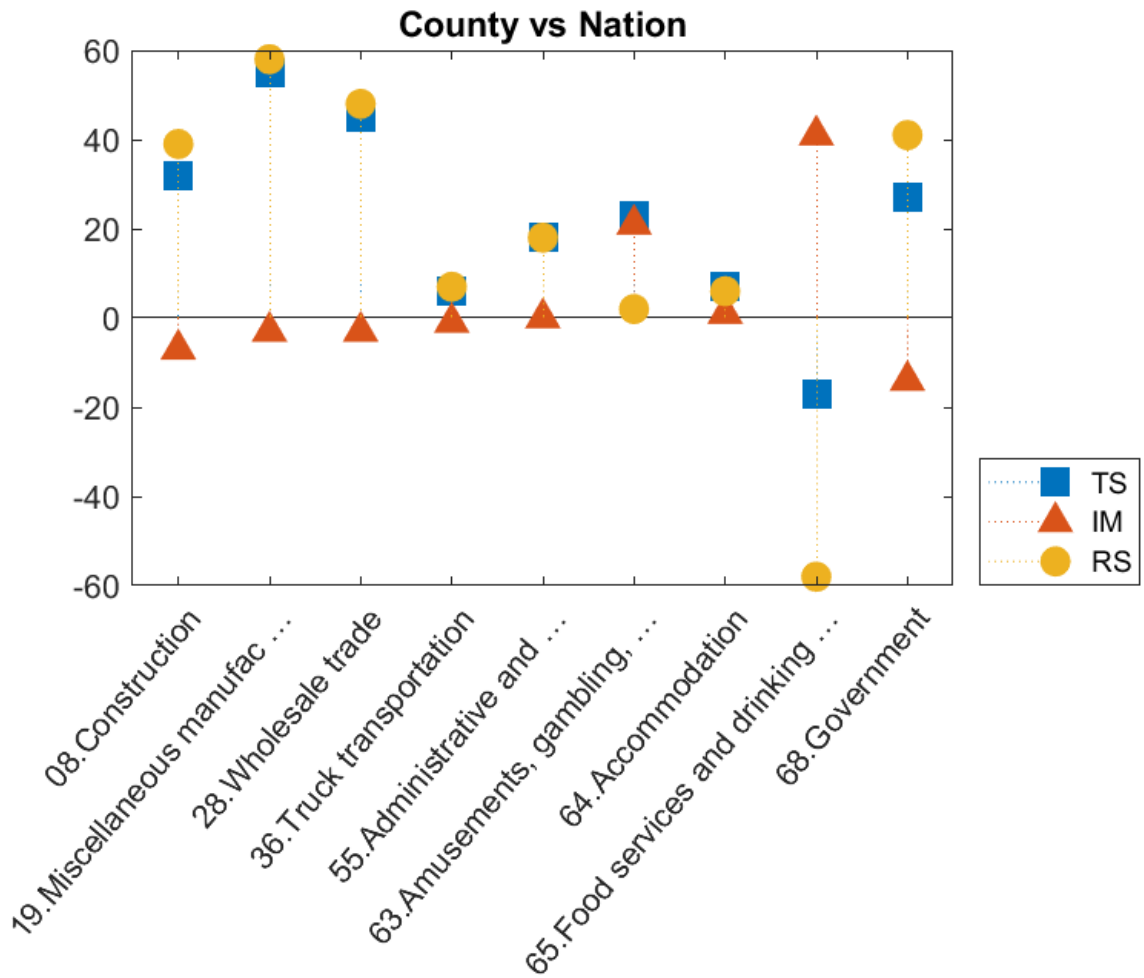
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Polk County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Polk County, Tennessee vs the U.S.

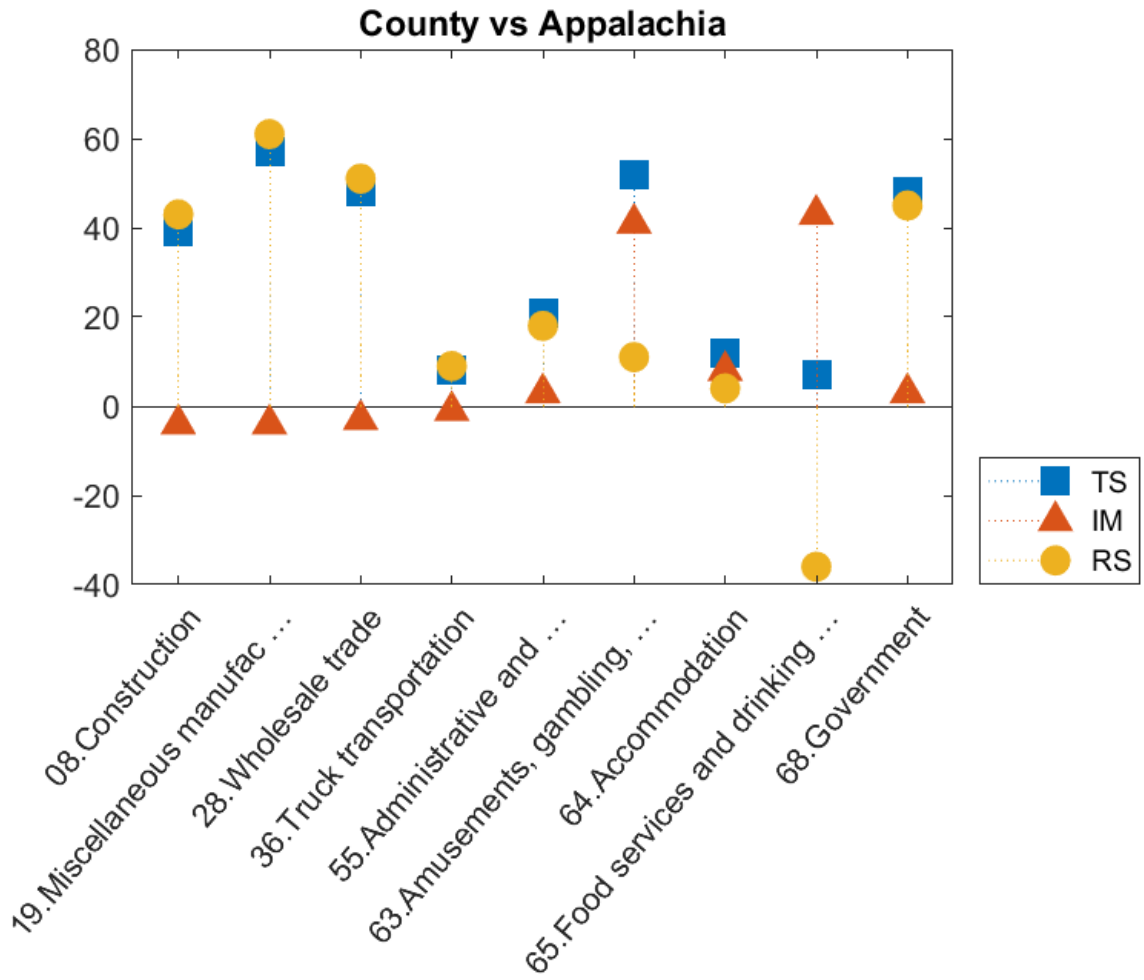


Chapter 38. Polk County, Tennessee

Polk County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | 6 | 32 | -7 | 39 | 96 |
| 19 | Miscellaneous manufac ... | 2 | 55 | -3 | 58 | 78 |
| 28 | Wholesale trade | 4 | 45 | -3 | 48 | 85 |
| 36 | Truck transportation | 2 | 6 | -1 | 7 | 24 |
| 55 | Administrative and ... | 3 | 18 | 0 | 18 | 44 |
| 63 | Amusements, gambling, ... | 30 | 23 | 21 | 2 | 321 |
| 64 | Accommodation | 5 | 7 | 1 | 6 | 53 |
| 65 | Food services and drinking ... | 24 | -17 | 41 | -58 | 221 |
| 68 | Government | 21 | 27 | -14 | 41 | 237 |

Selected SSA Components for Polk County, Tennessee vs the Appalachian Region

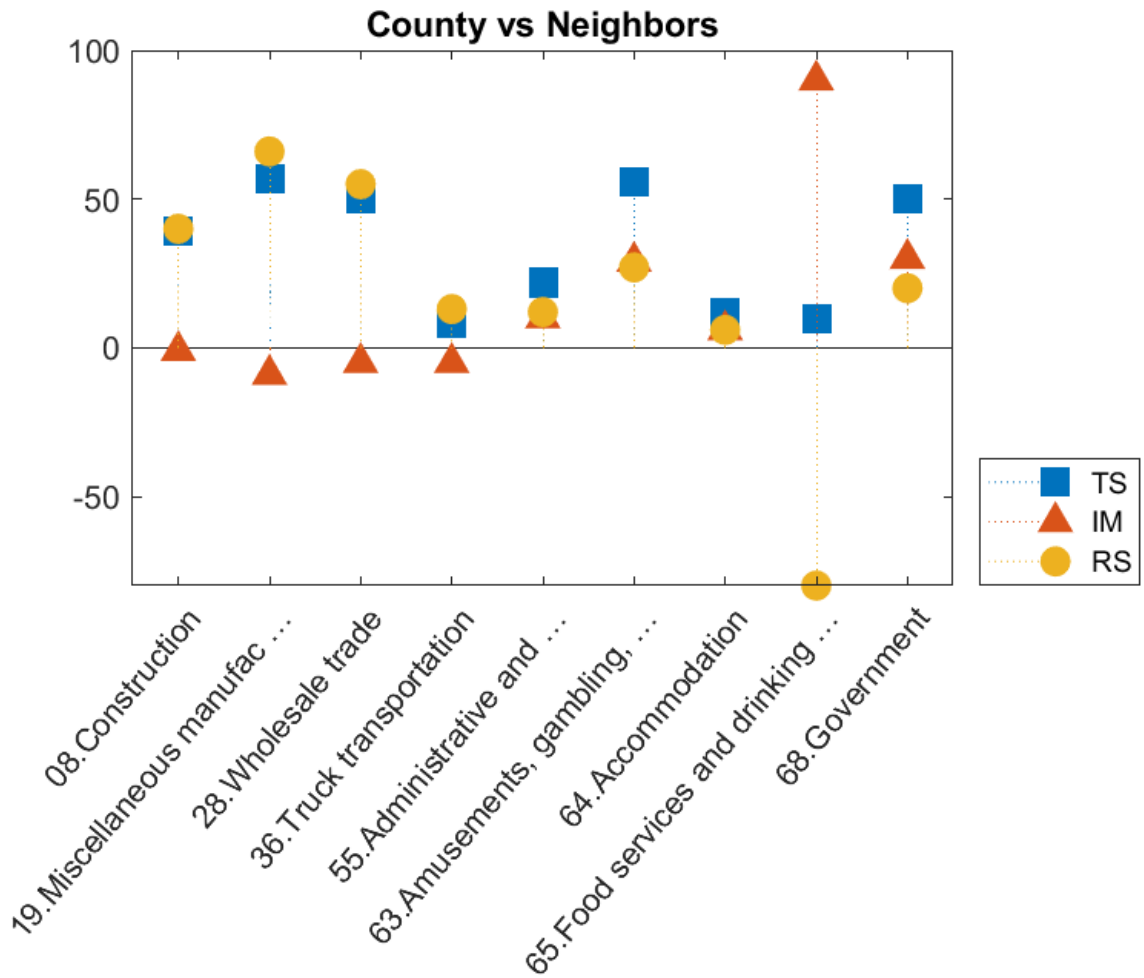


Chapter 38. Polk County, Tennessee

Selected SSA Components for Polk County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|----|----|-----|--------------------|
| 08 | Construction | 0 | 39 | -4 | 43 | 96 |
| 19 | Miscellaneous manufac ... | 0 | 57 | -4 | 61 | 78 |
| 28 | Wholesale trade | 0 | 48 | -3 | 51 | 85 |
| 36 | Truck transportation | 0 | 8 | -1 | 9 | 24 |
| 55 | Administrative and ... | 0 | 21 | 3 | 18 | 44 |
| 63 | Amusements, gambling, ... | 1 | 52 | 41 | 11 | 321 |
| 64 | Accommodation | 0 | 12 | 8 | 4 | 53 |
| 65 | Food services and drinking ... | 1 | 7 | 43 | -36 | 221 |
| 68 | Government | 1 | 48 | 3 | 45 | 237 |

Selected SSA Components for Polk County, Tennessee vs Neighbors



Chapter 38. Polk County, Tennessee

Selected SSA Components for Polk County, Tennessee vs Neighbors for
Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|----|----|-----|--------------------|
| 08 | Construction | -1 | 39 | -1 | 40 | 96 |
| 19 | Miscellaneous manufac ... | -0 | 57 | -9 | 66 | 78 |
| 28 | Wholesale trade | -0 | 50 | -5 | 55 | 85 |
| 36 | Truck transportation | -0 | 8 | -5 | 13 | 24 |
| 55 | Administrative and ... | -0 | 22 | 10 | 12 | 44 |
| 63 | Amusements, gambling, ... | -3 | 56 | 29 | 27 | 321 |
| 64 | Accommodation | -0 | 12 | 6 | 6 | 53 |
| 65 | Food services and drinking ... | -2 | 10 | 90 | -80 | 221 |
| 68 | Government | -2 | 50 | 30 | 20 | 237 |

Chapter 39. Putnam County, Tennessee

Employment in Putnam County, Tennessee, grew from 32,857 in 2005 to 36,676 in 2018, for a change of 3,819, or 11.62%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Putnam County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|-------|-----|-------|
| vs. U.S. | 3,708 | 118 | 619 | -501 |
| vs. Appalachia | 107 | 3,705 | 839 | 2,866 |
| vs. Neighbors | 572 | 3,248 | 24 | 3,224 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Putnam County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 39. Putnam County, Tennessee

Industry Group Membership for Putnam County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 08 | Construction | F III c iii | no | yes | yes | yes |
| 13 | Machinery | F III c i | no | yes | yes | yes |
| 15 | Electrical equipment, ... | D III c iii | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 32 | Other retail | F III c iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B V b iii | yes | no | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a ii | yes | yes | yes | yes |
| 59 | Hospitals | E I a i | no | yes | yes | yes |
| 61 | Social assistance | B II a iii | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c ii | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Putnam County, Tennessee vs. the United States

Groups a, b, and c are from Putnam County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Putnam County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Putnam County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Putnam County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Putnam County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Putnam County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

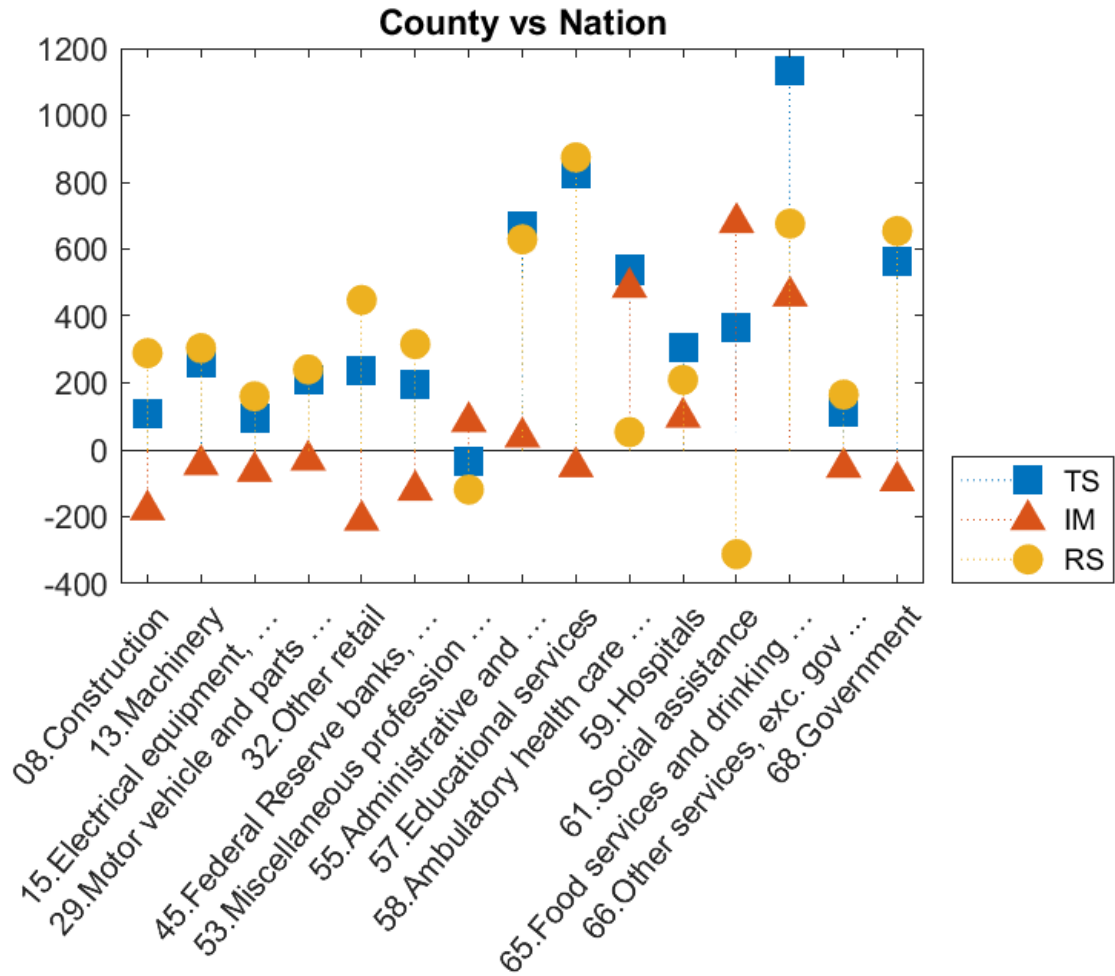
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Putnam County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Putnam County, Tennessee vs the U.S.

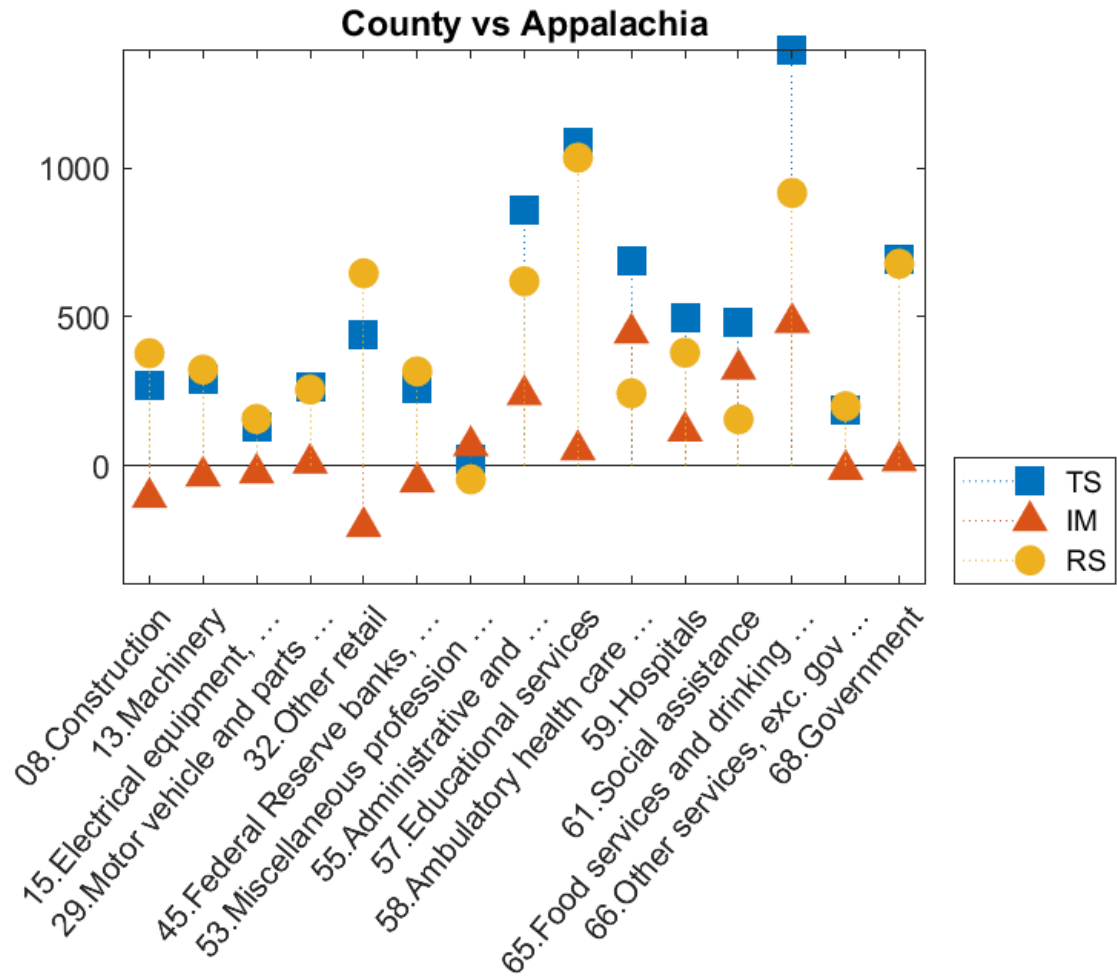


Chapter 39. Putnam County, Tennessee

Putnam County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-------|------|------|--------------------|
| 08 | Construction | 167 | 109 | -180 | 289 | 1,761 |
| 13 | Machinery | 31 | 259 | -45 | 304 | 561 |
| 15 | Electrical equipment, ... | 37 | 95 | -65 | 160 | 461 |
| 29 | Motor vehicle and parts ... | 56 | 209 | -31 | 240 | 762 |
| 32 | Other retail | 212 | 237 | -211 | 448 | 2,328 |
| 45 | Federal Reserve banks, ... | 70 | 195 | -121 | 316 | 886 |
| 53 | Miscellaneous profession ... | 56 | -35 | 84 | -119 | 521 |
| 55 | Administrative and ... | 198 | 667 | 38 | 629 | 2,616 |
| 57 | Educational services | 275 | 823 | -51 | 874 | 3,536 |
| 58 | Ambulatory health care ... | 156 | 538 | 485 | 53 | 2,076 |
| 59 | Hospitals | 196 | 306 | 97 | 209 | 2,241 |
| 61 | Social assistance | 117 | 367 | 679 | -312 | 1,520 |
| 65 | Food services and drinking ... | 271 | 1,135 | 459 | 676 | 3,813 |
| 66 | Other services, exc. gov ... | 77 | 112 | -53 | 165 | 876 |
| 68 | Government | 138 | 561 | -93 | 654 | 1,926 |

Selected SSA Components for Putnam County, Tennessee vs the Appalachian Region

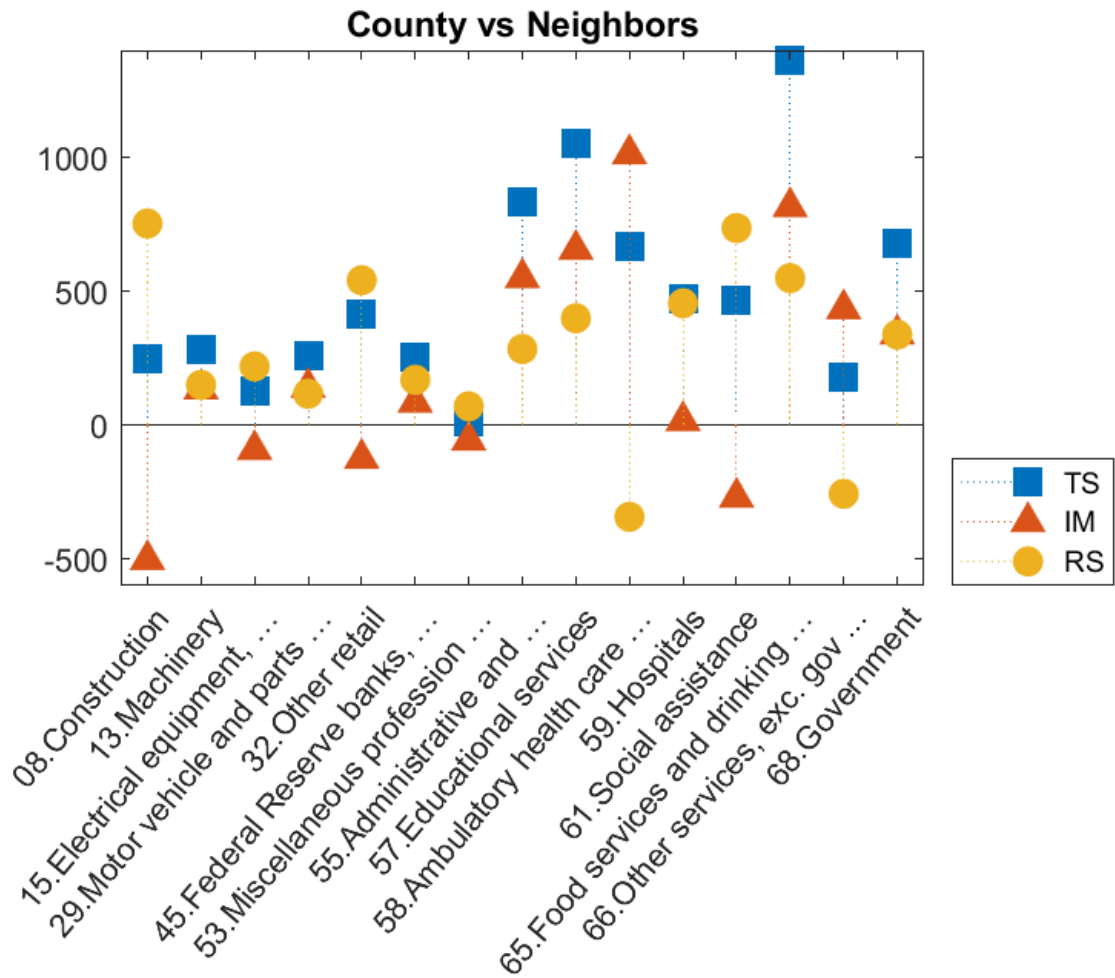


Chapter 39. Putnam County, Tennessee

Selected SSA Components for Putnam County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-------|------|-------|--------------------|
| 08 | Construction | 5 | 271 | -107 | 378 | 1,761 |
| 13 | Machinery | 1 | 288 | -35 | 323 | 561 |
| 15 | Electrical equipment, ... | 1 | 132 | -25 | 157 | 461 |
| 29 | Motor vehicle and parts ... | 2 | 264 | 8 | 256 | 762 |
| 32 | Other retail | 6 | 442 | -205 | 647 | 2,328 |
| 45 | Federal Reserve banks, ... | 2 | 262 | -55 | 317 | 886 |
| 53 | Miscellaneous profession ... | 2 | 21 | 67 | -46 | 521 |
| 55 | Administrative and ... | 6 | 858 | 238 | 620 | 2,616 |
| 57 | Educational services | 8 | 1,089 | 53 | 1,036 | 3,536 |
| 58 | Ambulatory health care ... | 5 | 689 | 446 | 243 | 2,076 |
| 59 | Hospitals | 6 | 496 | 116 | 380 | 2,241 |
| 61 | Social assistance | 4 | 480 | 324 | 156 | 1,520 |
| 65 | Food services and drinking ... | 8 | 1,398 | 481 | 917 | 3,813 |
| 66 | Other services, exc. gov ... | 2 | 187 | -13 | 200 | 876 |
| 68 | Government | 4 | 695 | 16 | 679 | 1,926 |

Selected SSA Components for Putnam County, Tennessee vs Neighbors



Chapter 39. Putnam County, Tennessee

Selected SSA Components for Putnam County, Tennessee vs Neighbors for
Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-------|-------|------|--------------------|
| 08 | Construction | 26 | 250 | -503 | 753 | 1,761 |
| 13 | Machinery | 5 | 284 | 134 | 150 | 561 |
| 15 | Electrical equipment, ... | 6 | 127 | -92 | 219 | 461 |
| 29 | Motor vehicle and parts ... | 9 | 257 | 140 | 117 | 762 |
| 32 | Other retail | 33 | 416 | -125 | 541 | 2,328 |
| 45 | Federal Reserve banks, ... | 11 | 254 | 85 | 169 | 886 |
| 53 | Miscellaneous profession ... | 9 | 13 | -57 | 70 | 521 |
| 55 | Administrative and ... | 30 | 834 | 550 | 284 | 2,616 |
| 57 | Educational services | 42 | 1,055 | 656 | 399 | 3,536 |
| 58 | Ambulatory health care ... | 24 | 670 | 1,013 | -343 | 2,076 |
| 59 | Hospitals | 30 | 471 | 16 | 455 | 2,241 |
| 61 | Social assistance | 18 | 466 | -270 | 736 | 1,520 |
| 65 | Food services and drinking ... | 42 | 1,364 | 815 | 549 | 3,813 |
| 66 | Other services, exc. gov ... | 12 | 177 | 434 | -257 | 876 |
| 68 | Government | 21 | 678 | 340 | 338 | 1,926 |

Chapter 40. Rhea County, Tennessee

Employment in Rhea County, Tennessee, declined from 11,176 in 2005 to 10,512 in 2018, for a change of -664, or -5.94%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Rhea County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|--------|------|
| vs. U.S. | 1,258 | -1,925 | -1,574 | -351 |
| vs. Appalachia | 37 | -705 | -1,428 | 723 |
| vs. Neighbors | 65 | -733 | -975 | 242 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Rhea County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 40. Rhea County, Tennessee

Industry Group Membership for Rhea County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 07 | Utilities | F III c i | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C I a i | yes | yes | yes | yes |
| 20 | Food and beverage ... | E I a i | no | yes | yes | yes |
| 26 | Chemical products | F III c iii | no | yes | yes | yes |
| 32 | Other retail | F III c iii | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B II a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a ii | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 61 | Social assistance | B II a i | yes | yes | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 68 | Government | F III a ii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Rhea County, Tennessee vs. the United States

Groups a, b, and c are from Rhea County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Rhea County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Rhea County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Rhea County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Rhea County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Rhea County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

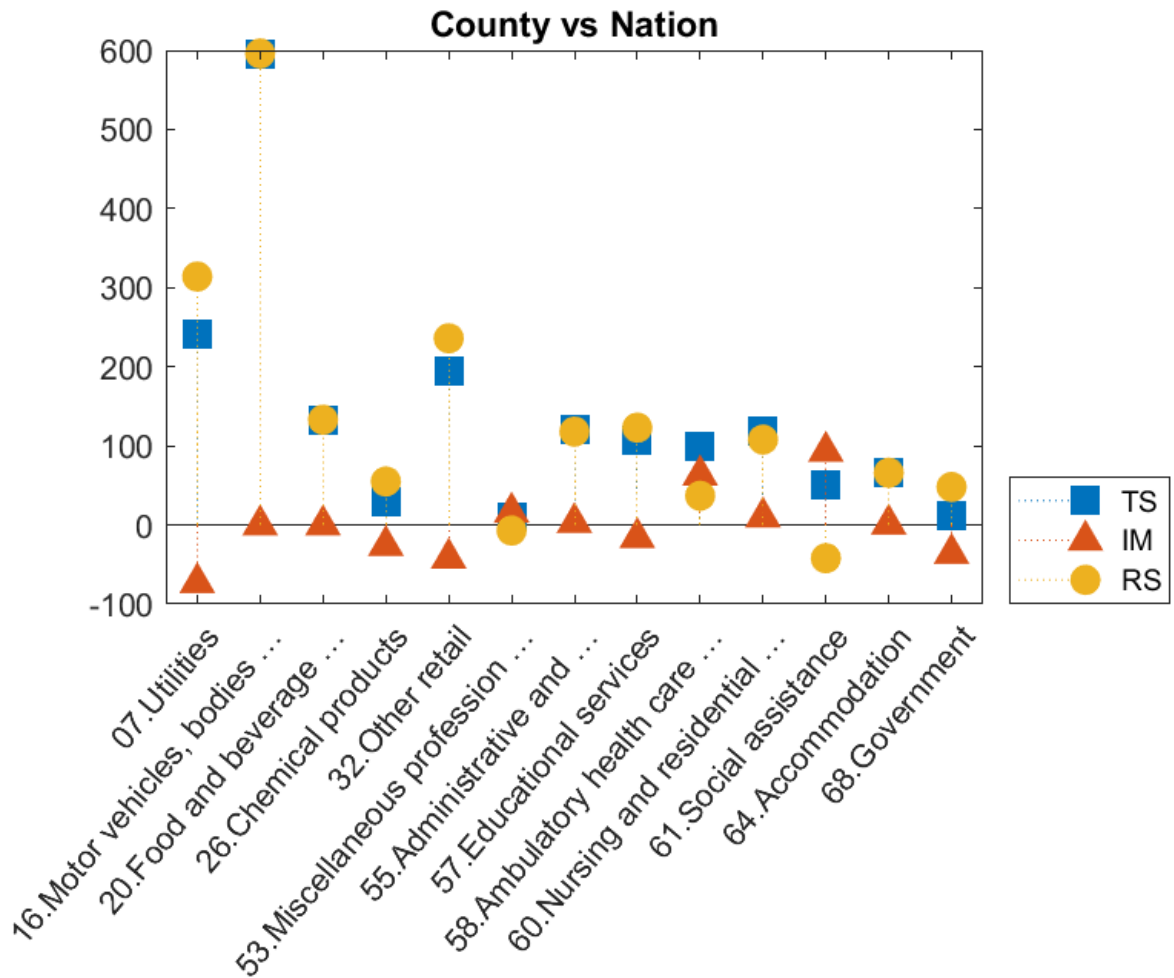
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Rhea County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Rhea County, Tennessee vs the U.S.

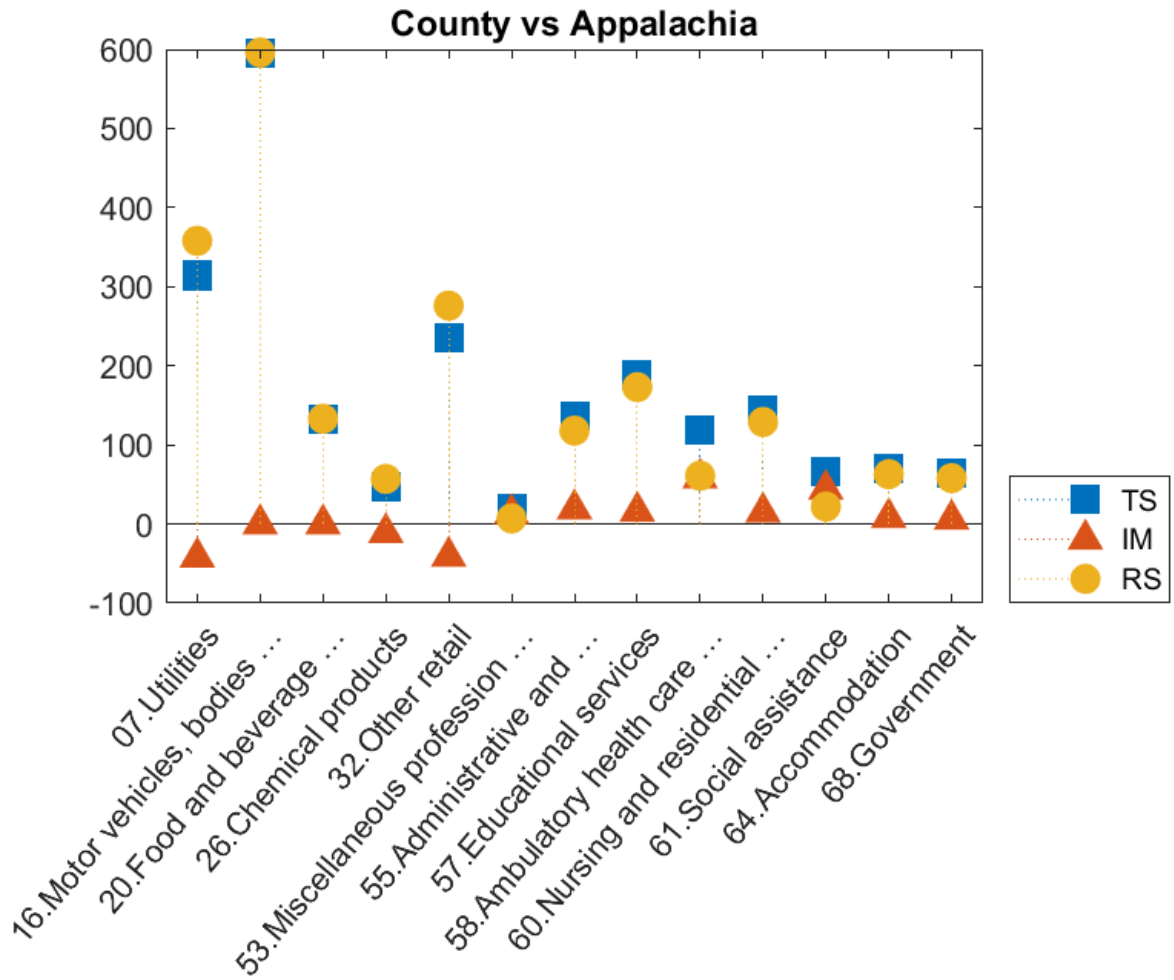


Chapter 40. Rhea County, Tennessee

Rhea County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|---------------------------------|----|-----|-----|-----|--------------------|
| 07 | Utilities | 77 | 241 | -73 | 314 | 1,005 |
| 16 | Motor vehicles, bodies ... | 0 | 596 | 0 | 596 | 596 |
| 20 | Food and beverage ... | 0 | 133 | 0 | 133 | 133 |
| 26 | Chemical products | 18 | 29 | -26 | 55 | 211 |
| 32 | Other retail | 42 | 194 | -42 | 236 | 611 |
| 53 | Miscellaneous profession ... | 11 | 9 | 16 | -7 | 117 |
| 55 | Administrative and ... | 16 | 121 | 3 | 118 | 277 |
| 57 | Educational services | 84 | 107 | -16 | 123 | 936 |
| 58 | Ambulatory health care ... | 20 | 100 | 63 | 37 | 300 |
| 60 | Nursing and residential ... | 26 | 118 | 10 | 108 | 379 |
| 61 | Social assistance | 16 | 51 | 93 | -42 | 209 |
| 64 | Accommodation | 5 | 67 | 1 | 66 | 111 |
| 68 | Government | 54 | 12 | -36 | 48 | 544 |

Selected SSA Components for Rhea County, Tennessee vs the Appalachian Region

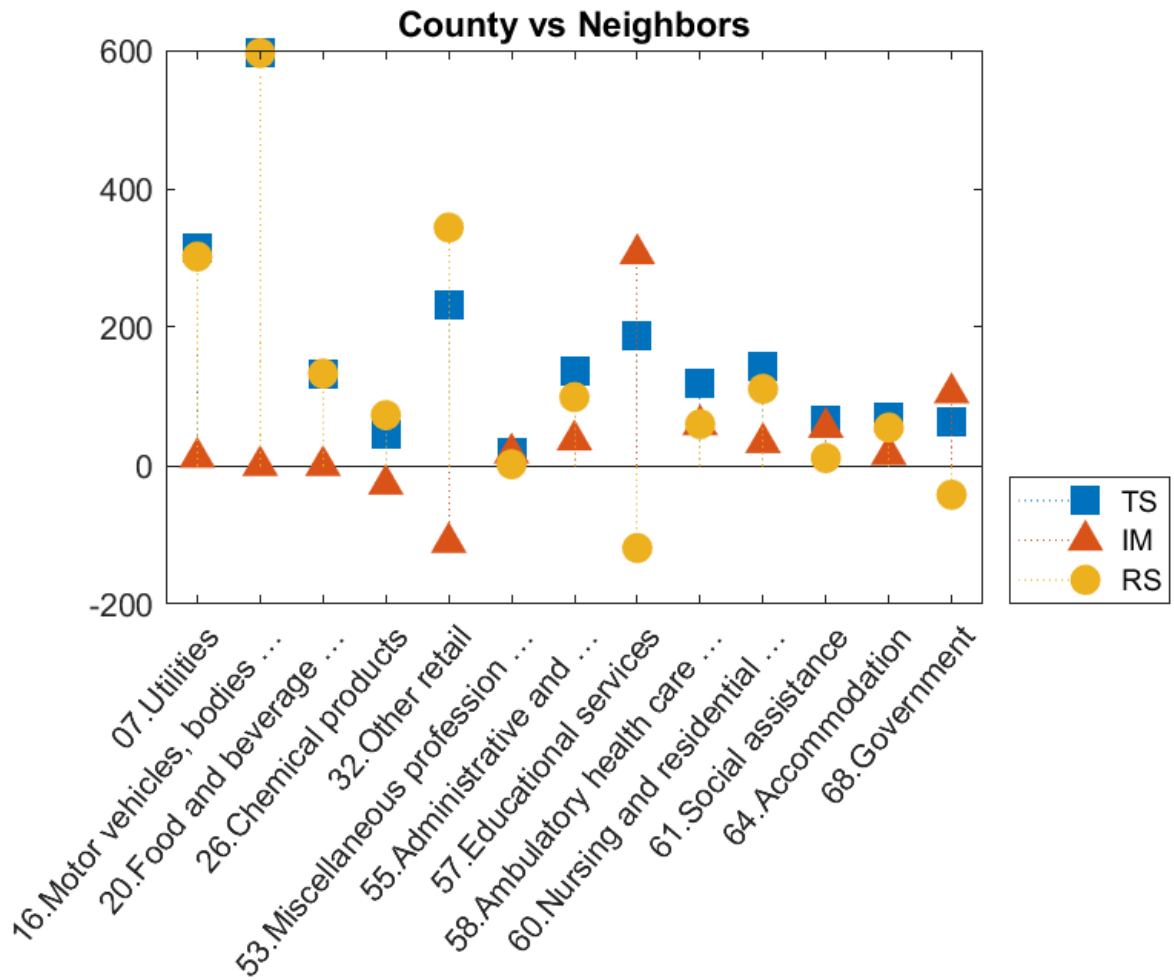


Chapter 40. Rhea County, Tennessee

Selected SSA Components for Rhea County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|---------------------------------|----|-----|-----|-----|--------------------|
| 07 | Utilities | 2 | 316 | -42 | 358 | 1,005 |
| 16 | Motor vehicles, bodies ... | 0 | 596 | 0 | 596 | 596 |
| 20 | Food and beverage ... | 0 | 133 | 0 | 133 | 133 |
| 26 | Chemical products | 1 | 46 | -11 | 57 | 211 |
| 32 | Other retail | 1 | 235 | -41 | 276 | 611 |
| 53 | Miscellaneous profession ... | 0 | 20 | 13 | 7 | 117 |
| 55 | Administrative and ... | 0 | 137 | 19 | 118 | 277 |
| 57 | Educational services | 3 | 189 | 16 | 173 | 936 |
| 58 | Ambulatory health care ... | 1 | 119 | 58 | 61 | 300 |
| 60 | Nursing and residential ... | 1 | 144 | 15 | 129 | 379 |
| 61 | Social assistance | 0 | 66 | 44 | 22 | 209 |
| 64 | Accommodation | 0 | 71 | 8 | 63 | 111 |
| 68 | Government | 2 | 64 | 6 | 58 | 544 |

Selected SSA Components for Rhea County, Tennessee vs Neighbors



Chapter 40. Rhea County, Tennessee

Selected SSA Components for Rhea County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|---------------------------------|----|-----|------|------|--------------------|
| 07 | Utilities | 4 | 314 | 12 | 302 | 1,005 |
| 16 | Motor vehicles, bodies ... | 0 | 596 | 0 | 596 | 596 |
| 20 | Food and beverage ... | 0 | 133 | 0 | 133 | 133 |
| 26 | Chemical products | 1 | 46 | -27 | 73 | 211 |
| 32 | Other retail | 2 | 233 | -111 | 344 | 611 |
| 53 | Miscellaneous profession ... | 1 | 20 | 18 | 2 | 117 |
| 55 | Administrative and ... | 1 | 136 | 37 | 99 | 277 |
| 57 | Educational services | 4 | 187 | 306 | -119 | 936 |
| 58 | Ambulatory health care ... | 1 | 119 | 59 | 60 | 300 |
| 60 | Nursing and residential ... | 1 | 144 | 33 | 111 | 379 |
| 61 | Social assistance | 1 | 66 | 55 | 11 | 209 |
| 64 | Accommodation | 0 | 71 | 16 | 55 | 111 |
| 68 | Government | 3 | 63 | 105 | -42 | 544 |

Chapter 41. Roane County, Tennessee

Employment in Roane County, Tennessee, grew from 17,855 in 2005 to 18,165 in 2018, for a change of 310, or 1.74%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Roane County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|-----|--------|
| vs. U.S. | 2,014 | -1,705 | 600 | -2,305 |
| vs. Appalachia | 56 | 244 | 831 | -587 |
| vs. Neighbors | 1,038 | -737 | 499 | -1,236 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Roane County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 41. Roane County, Tennessee

Industry Group Membership for Roane County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 53 | Miscellaneous profession ... | B I a iii | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a ii | yes | yes | yes | yes |
| 57 | Educational services | F III a ii | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 61 | Social assistance | B I a iii | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B V b ii | yes | no | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Roane County, Tennessee vs. the United States

Groups a, b, and c are from Roane County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Roane County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Roane County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Roane County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Roane County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Roane County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

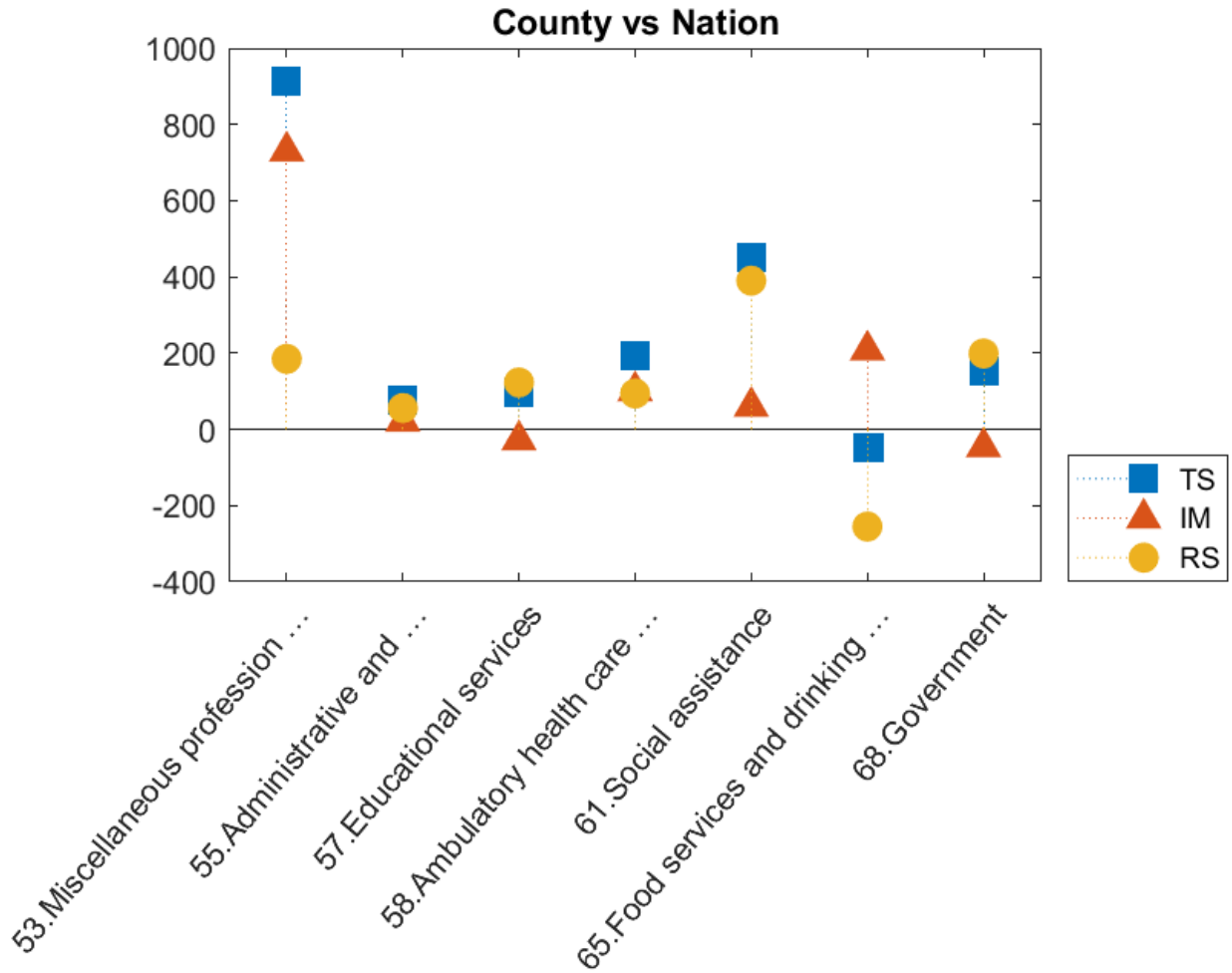
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Roane County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Roane County, Tennessee vs the U.S.

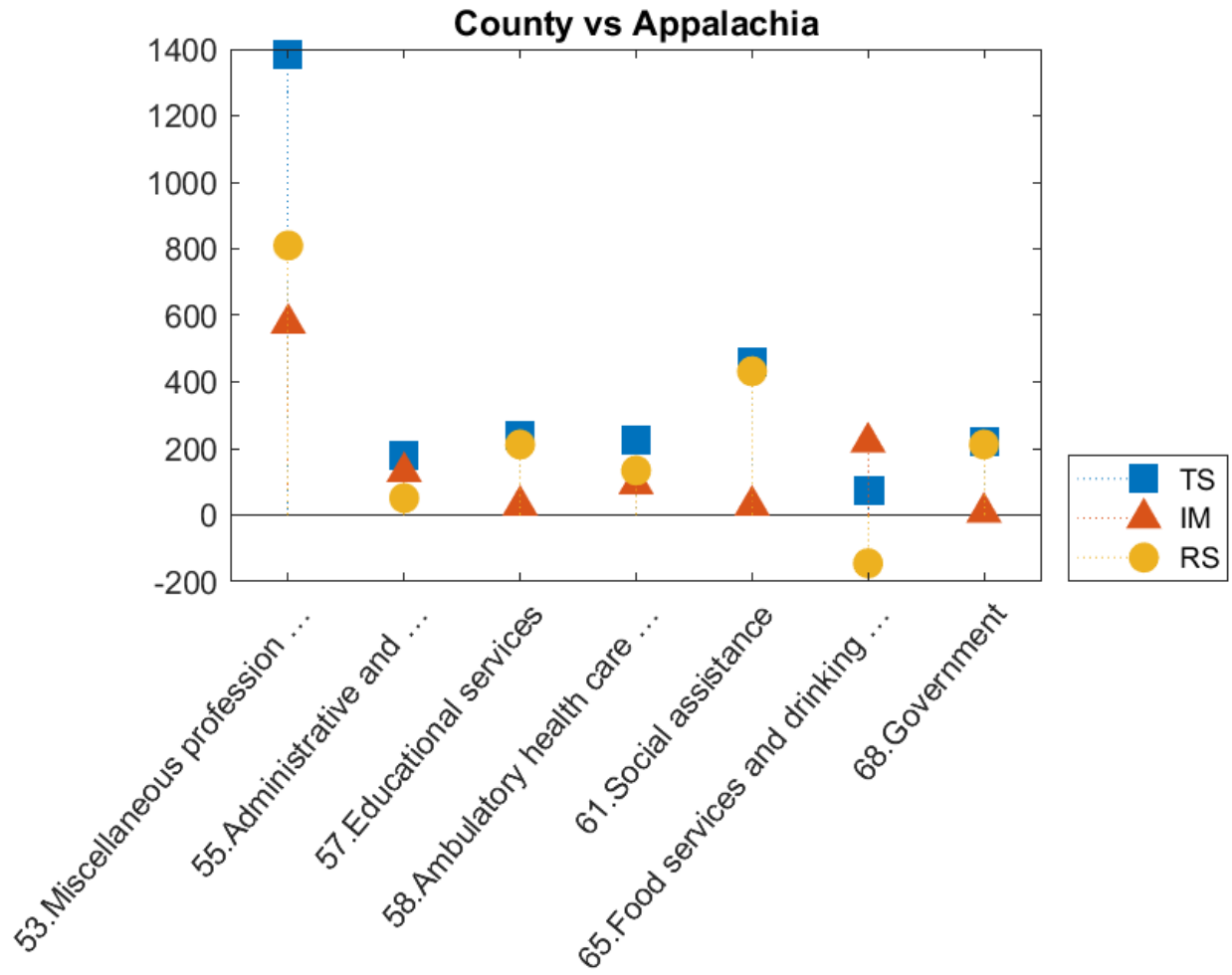


Chapter 41. Roane County, Tennessee

Roane County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-----|-----|------|--------------------|
| 53 | Miscellaneous profession ... | 487 | 915 | 730 | 185 | 5,718 |
| 55 | Administrative and ... | 108 | 77 | 21 | 56 | 1,142 |
| 57 | Educational services | 151 | 95 | -28 | 123 | 1,586 |
| 58 | Ambulatory health care ... | 33 | 195 | 101 | 94 | 517 |
| 61 | Social assistance | 10 | 450 | 60 | 390 | 553 |
| 65 | Food services and drinking ... | 123 | -47 | 208 | -255 | 1,170 |
| 68 | Government | 69 | 153 | -46 | 199 | 832 |

Selected SSA Components for Roane County, Tennessee vs the Appalachian Region

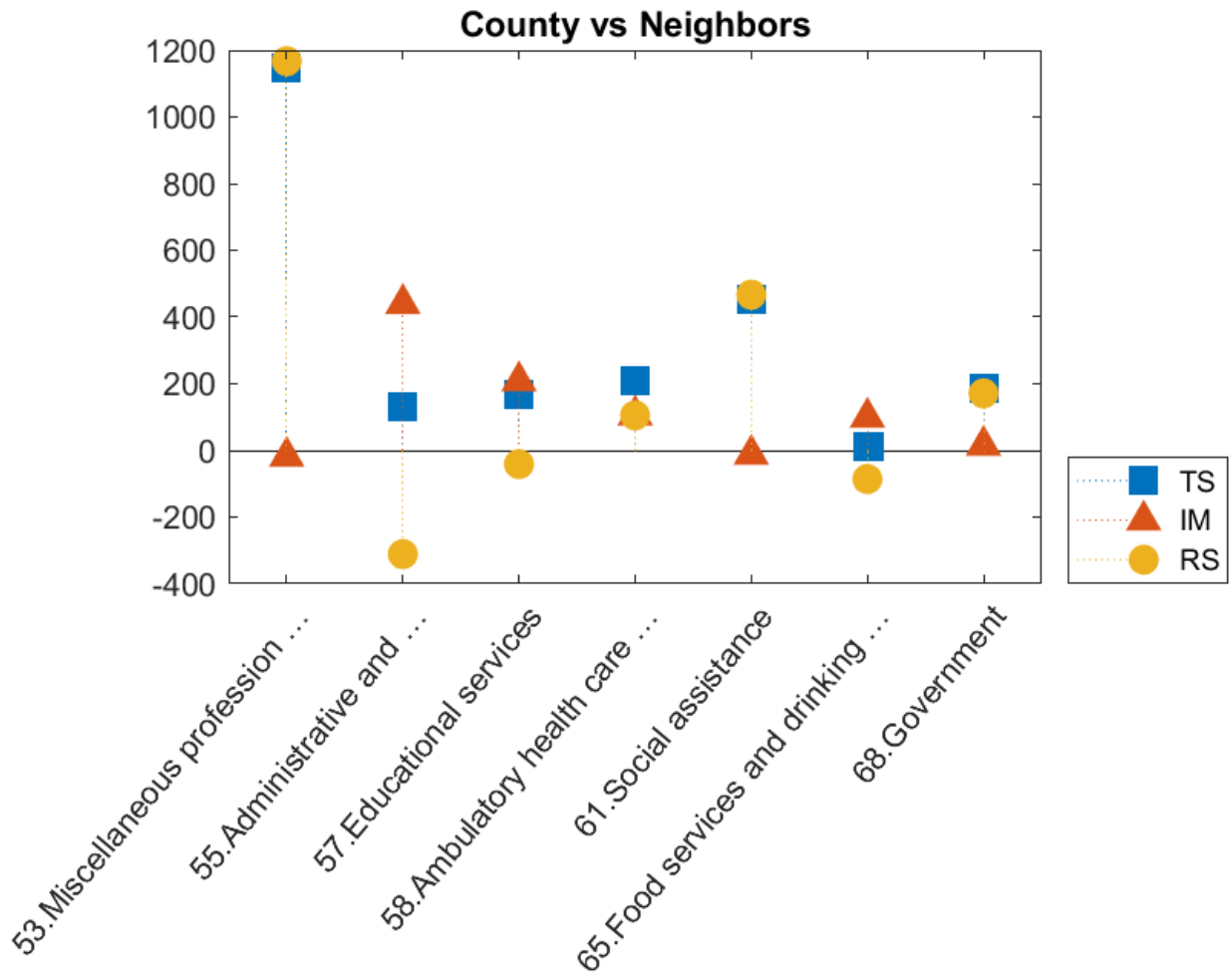


Chapter 41. Roane County, Tennessee

Selected SSA Components for Roane County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-----|------|--------------------|
| 53 | Miscellaneous profession ... | 15 | 1,386 | 576 | 810 | 5,718 |
| 55 | Administrative and ... | 3 | 181 | 130 | 51 | 1,142 |
| 57 | Educational services | 5 | 241 | 29 | 212 | 1,586 |
| 58 | Ambulatory health care ... | 1 | 227 | 93 | 134 | 517 |
| 61 | Social assistance | 0 | 461 | 29 | 432 | 553 |
| 65 | Food services and drinking ... | 4 | 74 | 219 | -145 | 1,170 |
| 68 | Government | 2 | 220 | 8 | 212 | 832 |

Selected SSA Components for Roane County, Tennessee vs Neighbors



Chapter 41. Roane County, Tennessee

Selected SSA Components for Roane County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-------|-----|-------|--------------------|
| 53 | Miscellaneous profession ... | 252 | 1,149 | -18 | 1,167 | 5,718 |
| 55 | Administrative and ... | 56 | 129 | 440 | -311 | 1,142 |
| 57 | Educational services | 78 | 167 | 208 | -41 | 1,586 |
| 58 | Ambulatory health care ... | 17 | 211 | 106 | 105 | 517 |
| 61 | Social assistance | 5 | 455 | -12 | 467 | 553 |
| 65 | Food services and drinking ... | 64 | 13 | 99 | -86 | 1,170 |
| 68 | Government | 36 | 186 | 15 | 171 | 832 |

Chapter 42. Scott County, Tennessee

Employment in Scott County, Tennessee, declined from 6,654 in 2005 to 5,883 in 2018, for a change of -771, or -11.59%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Scott County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 753 | -1,523 | -727 | -796 |
| vs. Appalachia | 20 | -794 | -387 | -407 |
| vs. Neighbors | -364 | -403 | -17 | -386 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Scott County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 42. Scott County, Tennessee

Industry Group Membership for Scott County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|--------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 08 | Construction | F III c iii | no | yes | yes | yes |
| 15 | Electrical equipment, ... | D I a i | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C III a ii | yes | yes | yes | yes |
| 20 | Food and beverage ... | E I c i | no | yes | yes | yes |
| 26 | Chemical products | F I a i | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D III a iii | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a iii | yes | yes | yes | yes |
| 57 | Educational services | F III a iii | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II a ii | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B V b ii | yes | no | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Scott County, Tennessee vs. the United States

Groups a, b, and c are from Scott County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Scott County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Scott County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Scott County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Scott County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Scott County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

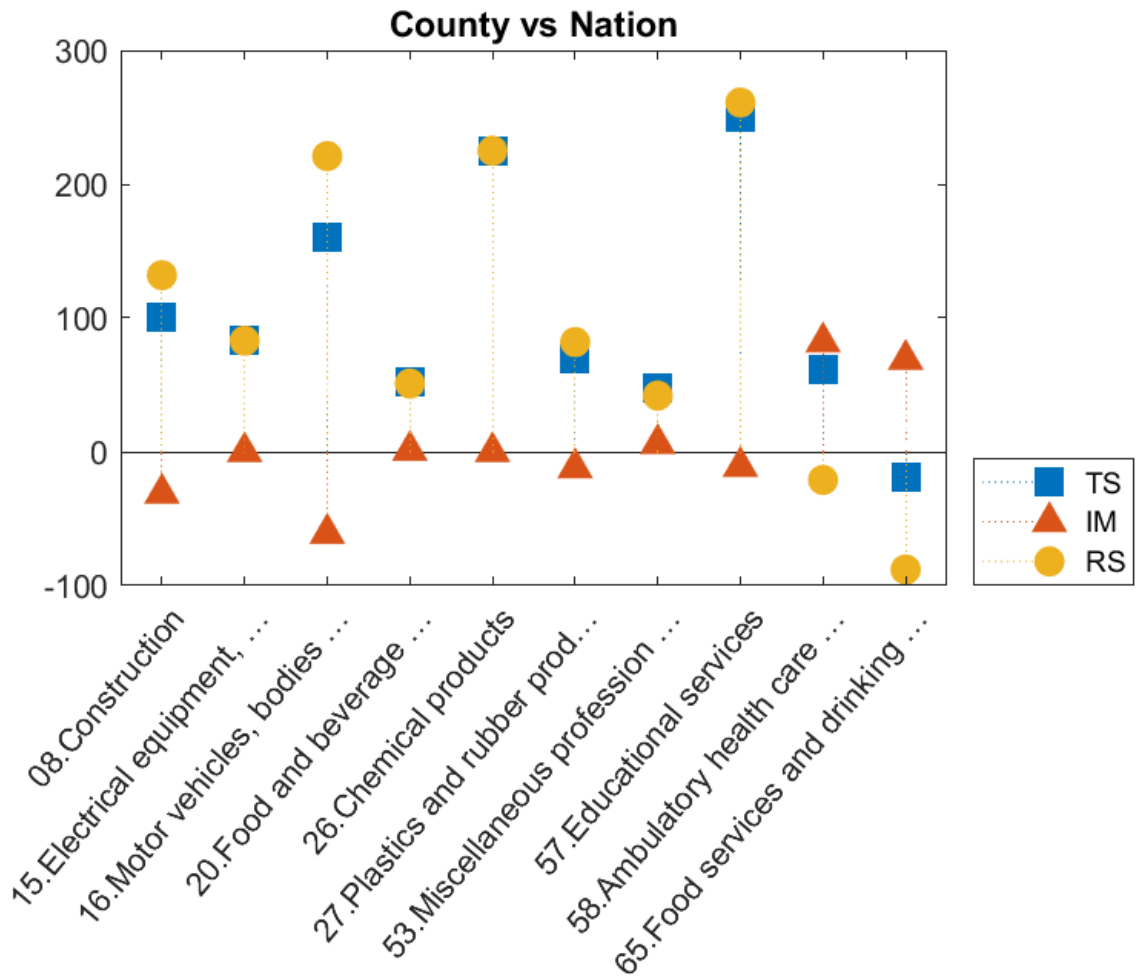
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Scott County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Scott County, Tennessee vs the U.S.

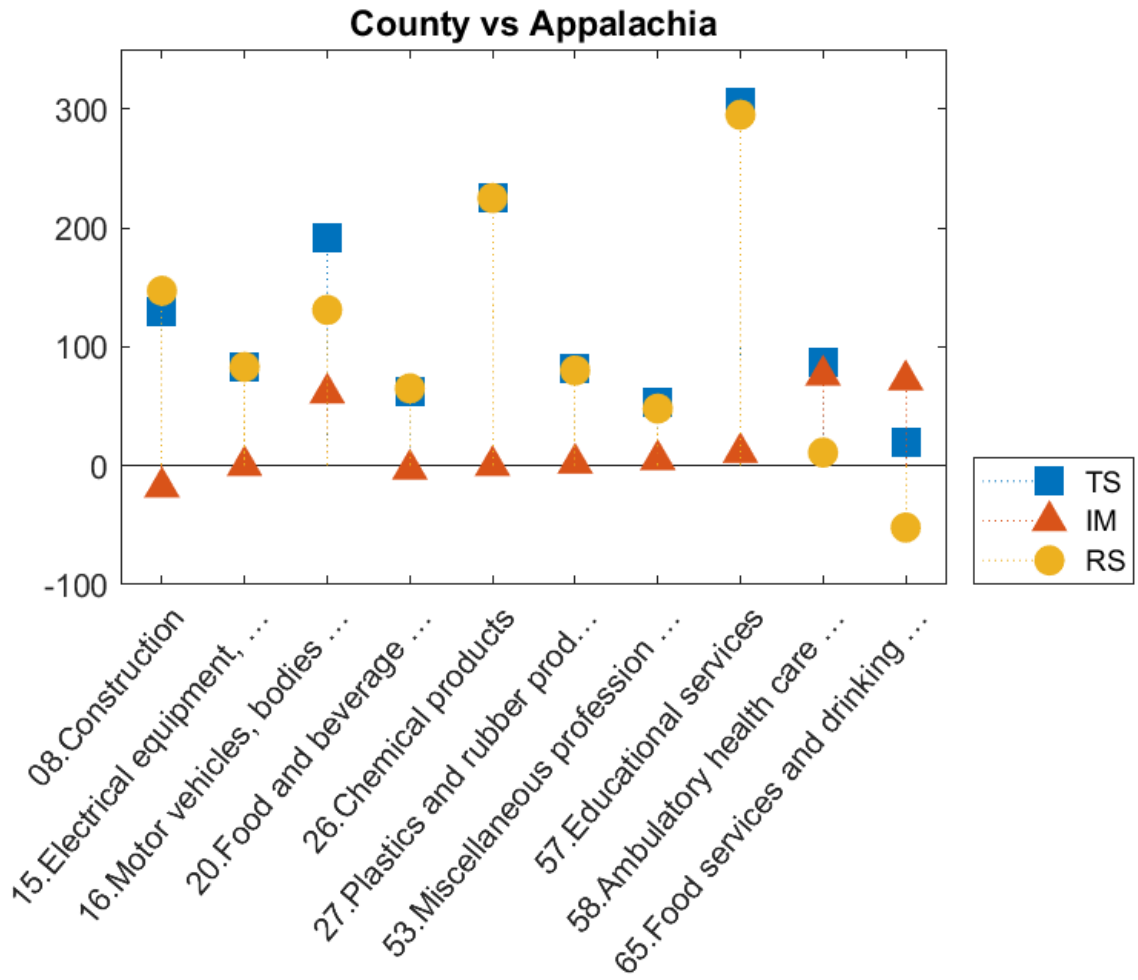


Chapter 42. Scott County, Tennessee

Scott County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | 29 | 101 | -31 | 132 | 385 |
| 15 | Electrical equipment, ... | 0 | 83 | 0 | 83 | 83 |
| 16 | Motor vehicles, bodies ... | 34 | 160 | -61 | 221 | 496 |
| 20 | Food and beverage ... | 10 | 52 | 1 | 51 | 146 |
| 26 | Chemical products | 0 | 225 | 0 | 225 | 225 |
| 27 | Plastics and rubber prod... | 12 | 70 | -12 | 82 | 190 |
| 53 | Miscellaneous profession ... | 4 | 48 | 6 | 42 | 89 |
| 57 | Educational services | 58 | 250 | -11 | 261 | 825 |
| 58 | Ambulatory health care ... | 26 | 61 | 82 | -21 | 322 |
| 65 | Food services and drinking ... | 41 | -19 | 69 | -88 | 381 |

Selected SSA Components for Scott County, Tennessee vs the Appalachian Region

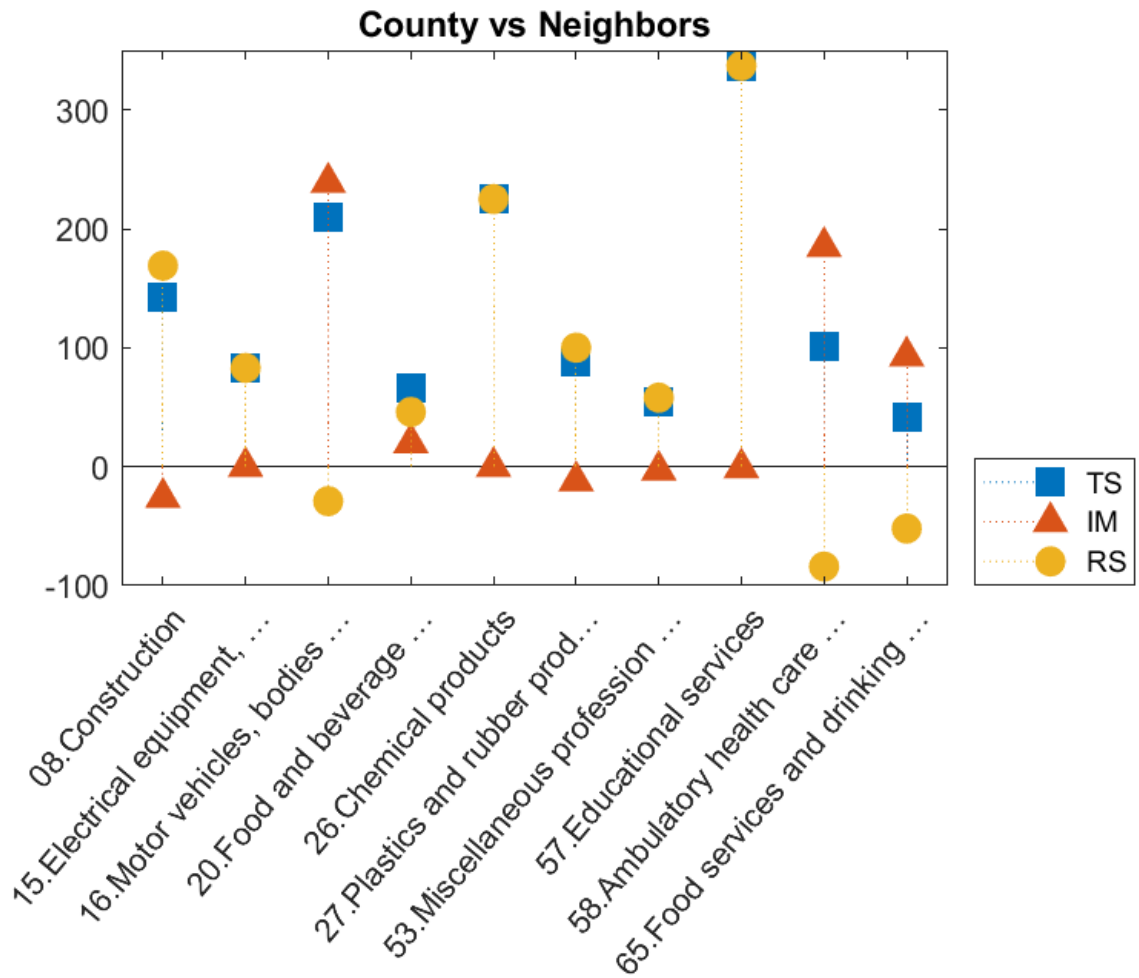


Chapter 42. Scott County, Tennessee

Selected SSA Components for Scott County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | 1 | 129 | -18 | 147 | 385 |
| 15 | Electrical equipment, ... | 0 | 83 | 0 | 83 | 83 |
| 16 | Motor vehicles, bodies ... | 1 | 192 | 61 | 131 | 496 |
| 20 | Food and beverage ... | 0 | 62 | -3 | 65 | 146 |
| 26 | Chemical products | 0 | 225 | 0 | 225 | 225 |
| 27 | Plastics and rubber prod... | 0 | 82 | 2 | 80 | 190 |
| 53 | Miscellaneous profession ... | 0 | 53 | 5 | 48 | 89 |
| 57 | Educational services | 2 | 306 | 11 | 295 | 825 |
| 58 | Ambulatory health care ... | 1 | 87 | 76 | 11 | 322 |
| 65 | Food services and drinking ... | 1 | 20 | 72 | -52 | 381 |

Selected SSA Components for Scott County, Tennessee vs Neighbors



Chapter 42. Scott County, Tennessee

Selected SSA Components for Scott County, Tennessee vs Neighbors for
Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-----|-----|-----|--------------------|
| 08 | Construction | -14 | 143 | -26 | 169 | 385 |
| 15 | Electrical equipment, ... | -0 | 83 | 0 | 83 | 83 |
| 16 | Motor vehicles, bodies ... | -17 | 210 | 239 | -29 | 496 |
| 20 | Food and beverage ... | -5 | 66 | 20 | 46 | 146 |
| 26 | Chemical products | -0 | 225 | 0 | 225 | 225 |
| 27 | Plastics and rubber prod... | -6 | 88 | -12 | 100 | 190 |
| 53 | Miscellaneous profession ... | -2 | 55 | -3 | 58 | 89 |
| 57 | Educational services | -28 | 336 | -1 | 337 | 825 |
| 58 | Ambulatory health care ... | -13 | 101 | 185 | -84 | 322 |
| 65 | Food services and drinking ... | -20 | 41 | 93 | -52 | 381 |

Chapter 43. Sequatchie County, Tennessee

Employment in Sequatchie County, Tennessee, grew from 2,825 in 2005 to 2,957 in 2018, for a change of 132, or 4.67%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Sequatchie County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|------|------|-----|
| vs. U.S. | 318 | -190 | -100 | -90 |
| vs. Appalachia | 8 | 122 | -56 | 178 |
| vs. Neighbors | -46 | 178 | -76 | 254 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Sequatchie County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 43. Sequatchie County, Tennessee

Industry Group Membership for Sequatchie County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 08 | Construction | F III c i | no | yes | yes | yes |
| 15 | Electrical equipment, ... | D I a i | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C I a i | yes | yes | yes | yes |
| 26 | Chemical products | F III a i | no | yes | yes | yes |
| 31 | General merchandise ... | F III c i | no | yes | yes | yes |
| 36 | Truck transportation | F III c iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c iii | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 60 | Nursing and residential ... | E I a i | no | yes | yes | yes |
| 61 | Social assistance | B I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B V b ii | yes | no | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Sequatchie County, Tennessee vs. the United States

Groups a, b, and c are from Sequatchie County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Sequatchie County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Sequatchie County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Sequatchie County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Sequatchie County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Sequatchie County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

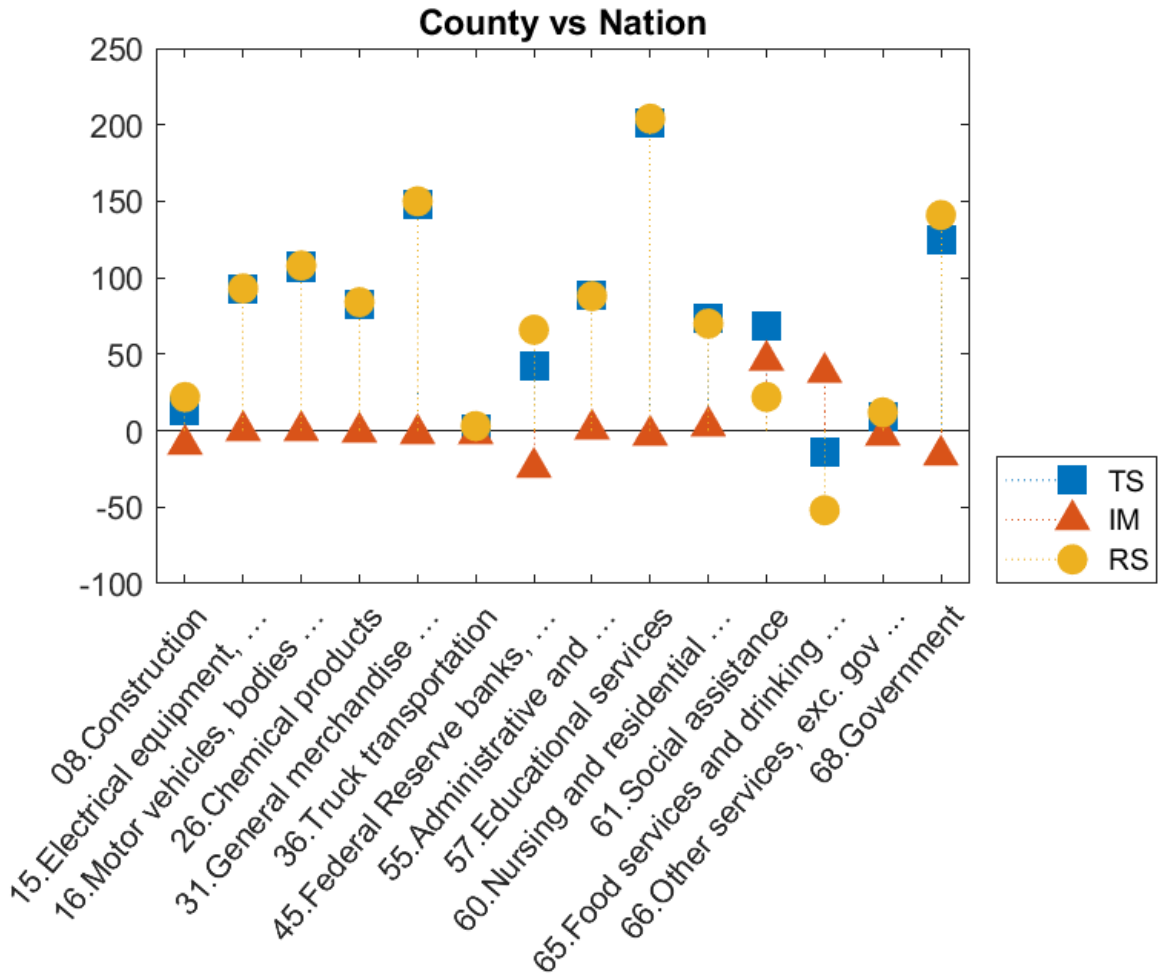
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Sequatchie County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Sequatchie County, Tennessee vs the U.S.

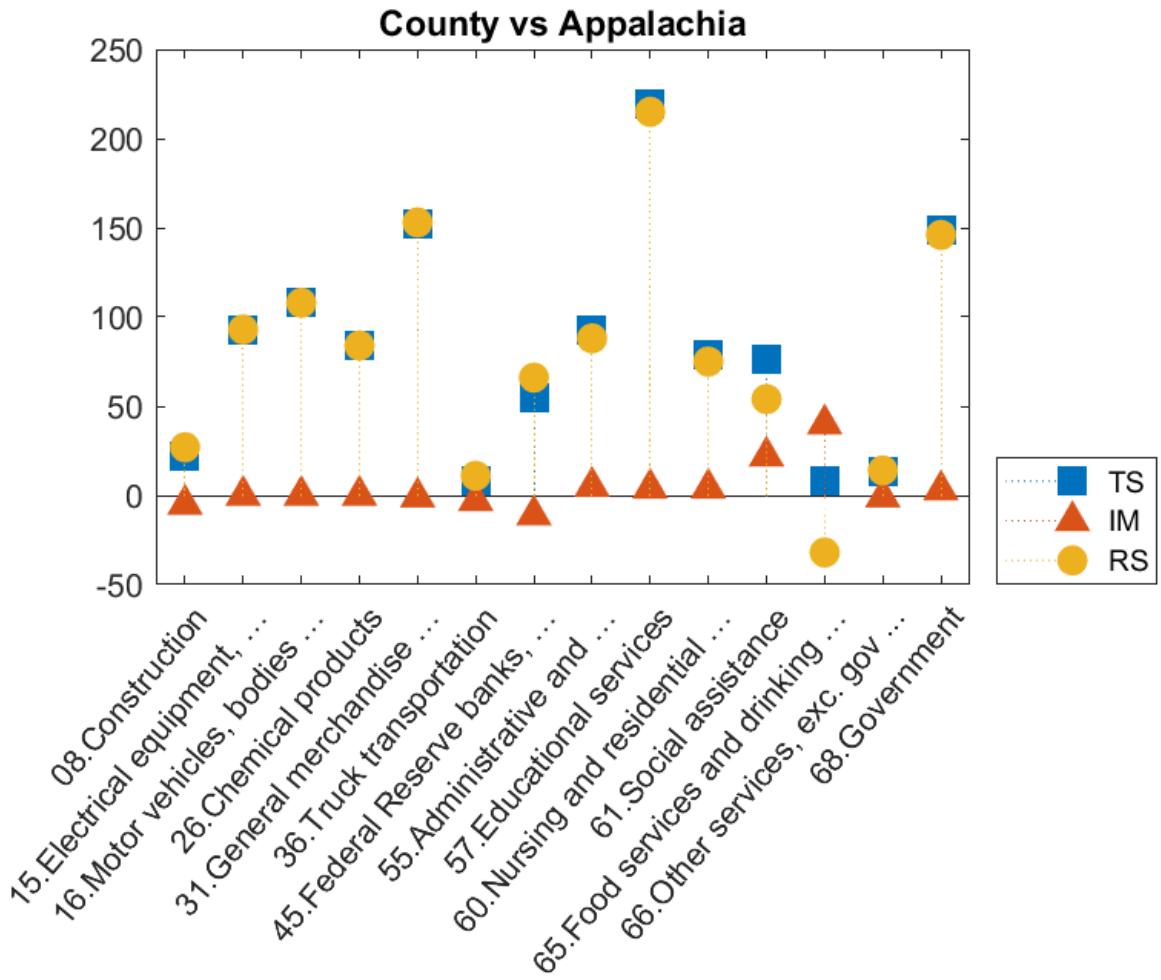


Chapter 43. Sequatchie County, Tennessee

Sequatchie County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | 8 | 13 | -9 | 22 | 93 |
| 15 | Electrical equipment, ... | 0 | 93 | 0 | 93 | 93 |
| 16 | Motor vehicles, bodies ... | 0 | 108 | 0 | 108 | 108 |
| 26 | Chemical products | 1 | 83 | -1 | 84 | 89 |
| 31 | General merchandise ... | 4 | 148 | -2 | 150 | 189 |
| 36 | Truck transportation | 6 | 1 | -2 | 3 | 60 |
| 45 | Federal Reserve banks, ... | 14 | 42 | -24 | 66 | 179 |
| 55 | Administrative and ... | 4 | 89 | 1 | 88 | 130 |
| 57 | Educational services | 19 | 201 | -3 | 204 | 384 |
| 60 | Nursing and residential ... | 7 | 73 | 3 | 70 | 141 |
| 61 | Social assistance | 8 | 68 | 46 | 22 | 145 |
| 65 | Food services and drinking ... | 22 | -14 | 38 | -52 | 207 |
| 66 | Other services, exc. gov ... | 4 | 9 | -3 | 12 | 47 |
| 68 | Government | 23 | 125 | -16 | 141 | 354 |

Selected SSA Components for Sequatchie County, Tennessee vs the Appalachian Region

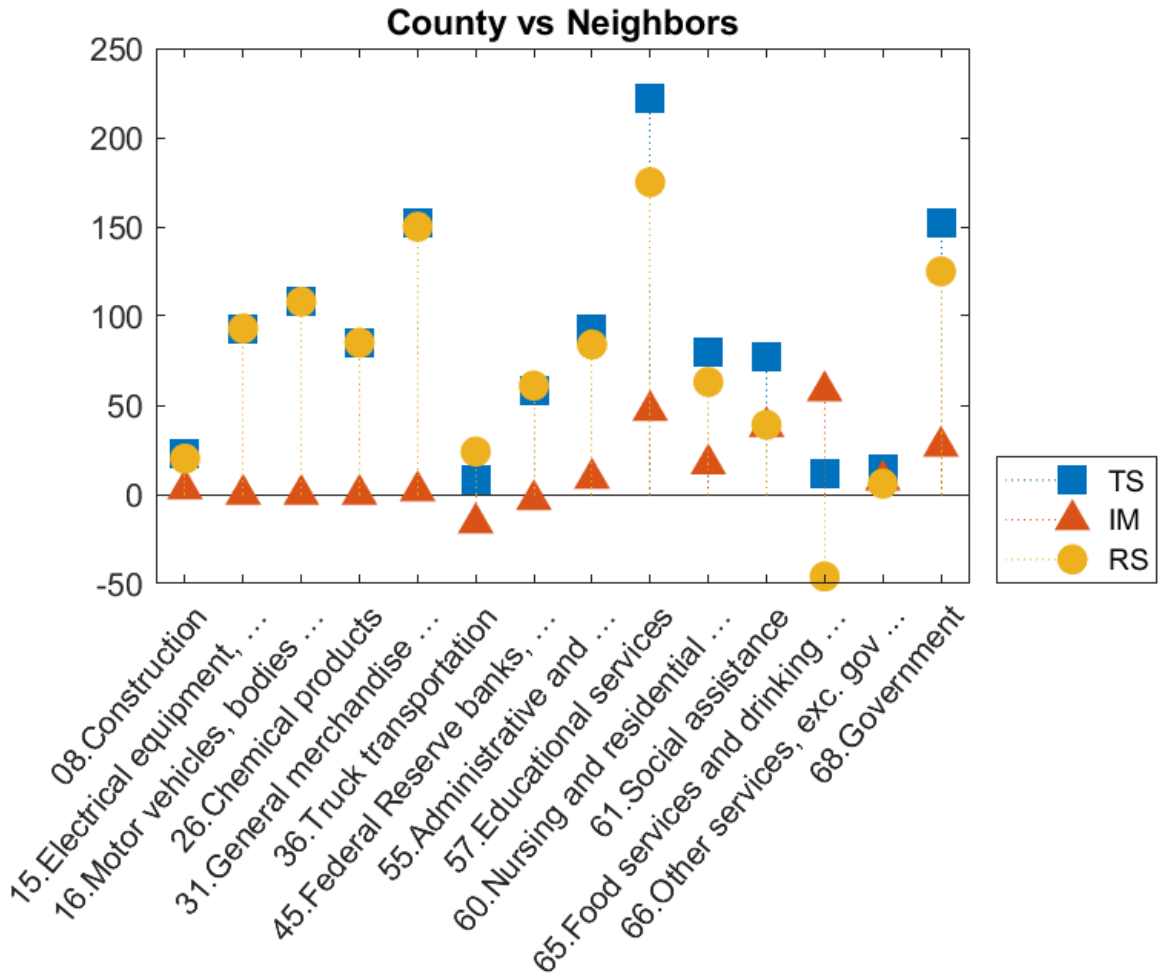


Chapter 43. Sequatchie County, Tennessee

Selected SSA Components for Sequatchie County, Tennessee vs the
Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | 0 | 22 | -5 | 27 | 93 |
| 15 | Electrical equipment, ... | 0 | 93 | 0 | 93 | 93 |
| 16 | Motor vehicles, bodies ... | 0 | 108 | 0 | 108 | 108 |
| 26 | Chemical products | 0 | 84 | -0 | 84 | 89 |
| 31 | General merchandise ... | 0 | 152 | -1 | 153 | 189 |
| 36 | Truck transportation | 0 | 8 | -3 | 11 | 60 |
| 45 | Federal Reserve banks, ... | 0 | 55 | -11 | 66 | 179 |
| 55 | Administrative and ... | 0 | 93 | 5 | 88 | 130 |
| 57 | Educational services | 1 | 219 | 4 | 215 | 384 |
| 60 | Nursing and residential ... | 0 | 79 | 4 | 75 | 141 |
| 61 | Social assistance | 0 | 76 | 22 | 54 | 145 |
| 65 | Food services and drinking ... | 1 | 8 | 40 | -32 | 207 |
| 66 | Other services, exc. gov ... | 0 | 13 | -1 | 14 | 47 |
| 68 | Government | 1 | 149 | 3 | 146 | 354 |

Selected SSA Components for Sequatchie County, Tennessee vs Neighbors



Chapter 43. Sequatchie County, Tennessee

Selected SSA Components for Sequatchie County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 08 | Construction | -1 | 23 | 3 | 20 | 93 |
| 15 | Electrical equipment, ... | -0 | 93 | 0 | 93 | 93 |
| 16 | Motor vehicles, bodies ... | -0 | 108 | 0 | 108 | 108 |
| 26 | Chemical products | -0 | 85 | -0 | 85 | 89 |
| 31 | General merchandise ... | -1 | 152 | 2 | 150 | 189 |
| 36 | Truck transportation | -1 | 8 | -16 | 24 | 60 |
| 45 | Federal Reserve banks, ... | -2 | 58 | -3 | 61 | 179 |
| 55 | Administrative and ... | -1 | 93 | 9 | 84 | 130 |
| 57 | Educational services | -3 | 222 | 47 | 175 | 384 |
| 60 | Nursing and residential ... | -1 | 80 | 17 | 63 | 141 |
| 61 | Social assistance | -1 | 77 | 38 | 39 | 145 |
| 65 | Food services and drinking ... | -3 | 12 | 58 | -46 | 207 |
| 66 | Other services, exc. gov ... | -1 | 14 | 8 | 6 | 47 |
| 68 | Government | -3 | 152 | 27 | 125 | 354 |

Chapter 44. Sevier County, Tennessee

Employment in Sevier County, Tennessee, grew from 38,666 in 2005 to 47,389 in 2018, for a change of 8,723, or 22.56%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Sevier County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 4,358 | 4,368 | 337 | 4,031 |
| vs. Appalachia | 129 | 8,593 | 2,199 | 6,394 |
| vs. Neighbors | 4,274 | 4,454 | 1,330 | 3,124 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Sevier County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 44. Sevier County, Tennessee

Industry Group Membership for Sevier County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 20 | Food and beverage ... | E I c i | no | yes | yes | yes |
| 28 | Wholesale trade | F III c iii | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a iii | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 31 | General merchandise ... | F III c iii | no | yes | yes | yes |
| 49 | Real estate | F III a i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B II a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 62 | Performing arts, spectator ... | B I a i | yes | yes | yes | yes |
| 63 | Amusements, gambling, ... | B I a i | yes | yes | yes | yes |
| 64 | Accommodation | A V b v | yes | no | yes | no |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 68 | Government | F III a iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Sevier County, Tennessee vs. the United States

Groups a, b, and c are from Sevier County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Sevier County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Sevier County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Sevier County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Sevier County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Sevier County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

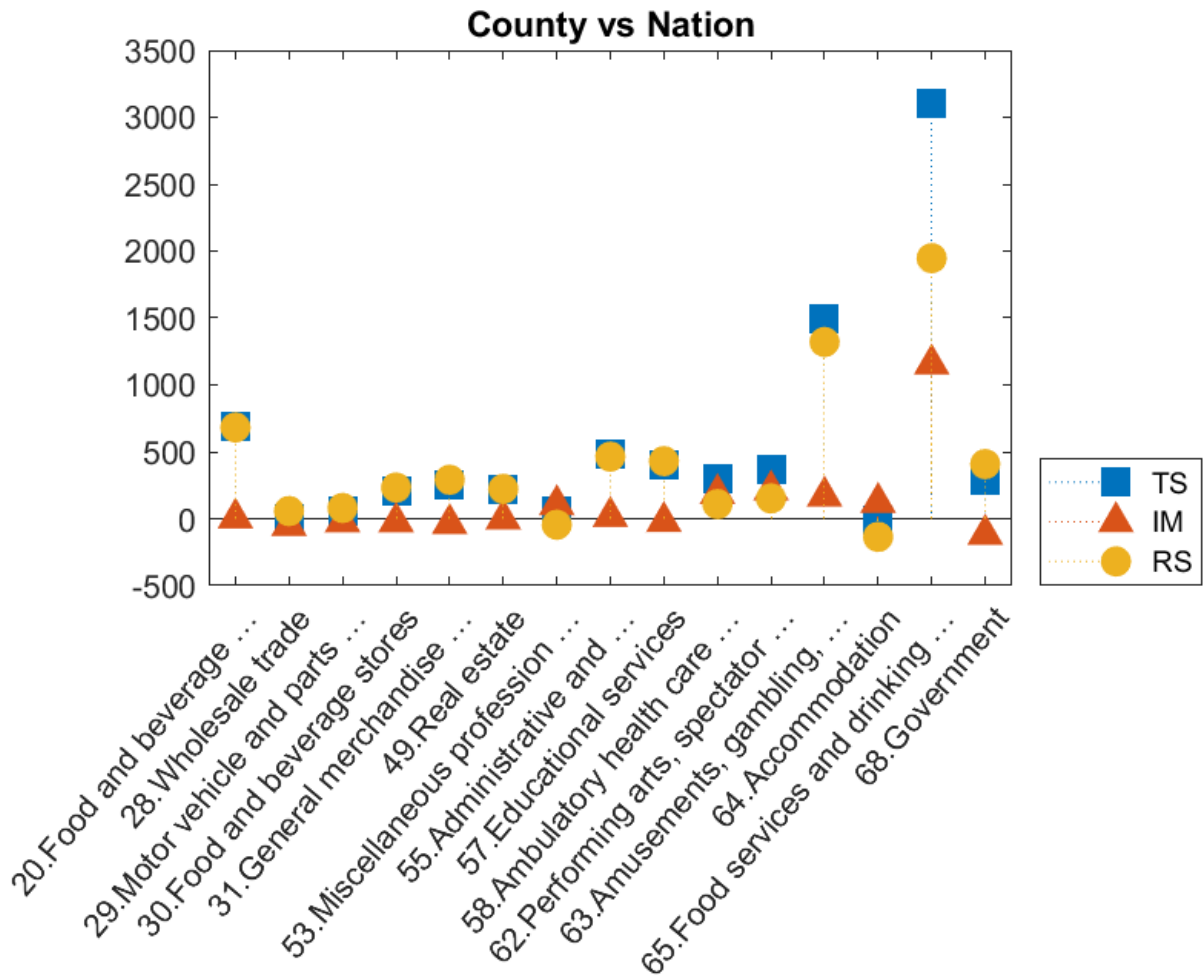
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Sevier County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Sevier County, Tennessee vs the U.S.

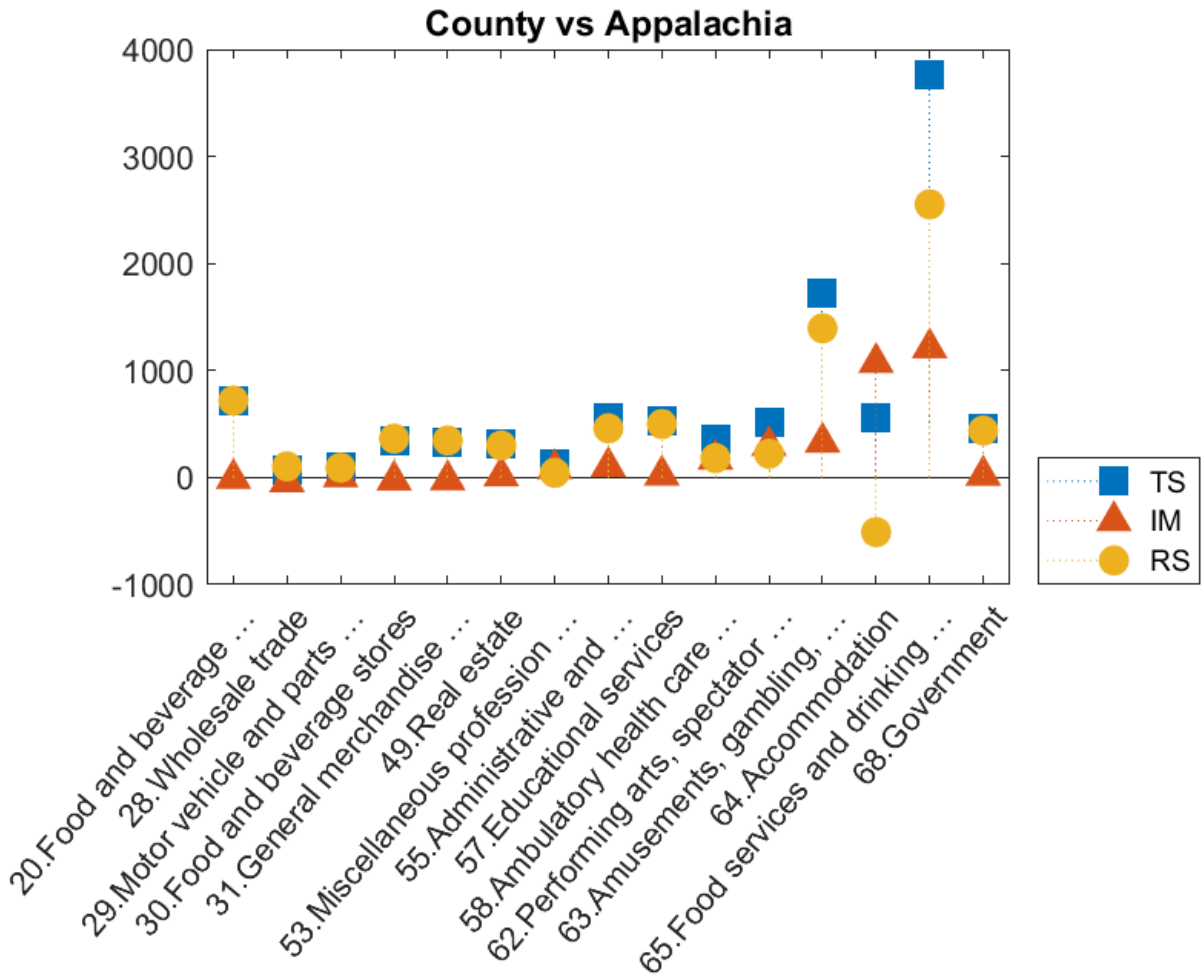


Chapter 44. Sevier County, Tennessee

Sevier County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-------|-------|-------|--------------------|
| 20 | Food and beverage ... | 26 | 686 | 4 | 682 | 939 |
| 28 | Wholesale trade | 61 | 5 | -52 | 57 | 611 |
| 29 | Motor vehicle and parts ... | 44 | 56 | -24 | 80 | 494 |
| 30 | Food and beverage stores | 134 | 209 | -24 | 233 | 1,531 |
| 31 | General merchandise ... | 71 | 254 | -37 | 291 | 957 |
| 49 | Real estate | 98 | 221 | -2 | 223 | 1,184 |
| 53 | Miscellaneous profession ... | 69 | 59 | 104 | -45 | 742 |
| 55 | Administrative and ... | 84 | 480 | 16 | 464 | 1,312 |
| 57 | Educational services | 117 | 408 | -22 | 430 | 1,568 |
| 58 | Ambulatory health care ... | 60 | 296 | 187 | 109 | 888 |
| 62 | Performing arts, spectator ... | 160 | 366 | 214 | 152 | 1,945 |
| 63 | Amusements, gambling, ... | 242 | 1,489 | 168 | 1,321 | 3,876 |
| 64 | Accommodation | 596 | -15 | 121 | -136 | 5,869 |
| 65 | Food services and drinking ... | 683 | 3,102 | 1,155 | 1,947 | 9,842 |
| 68 | Government | 175 | 291 | -117 | 408 | 2,013 |

Selected SSA Components for Sevier County, Tennessee vs the Appalachian Region

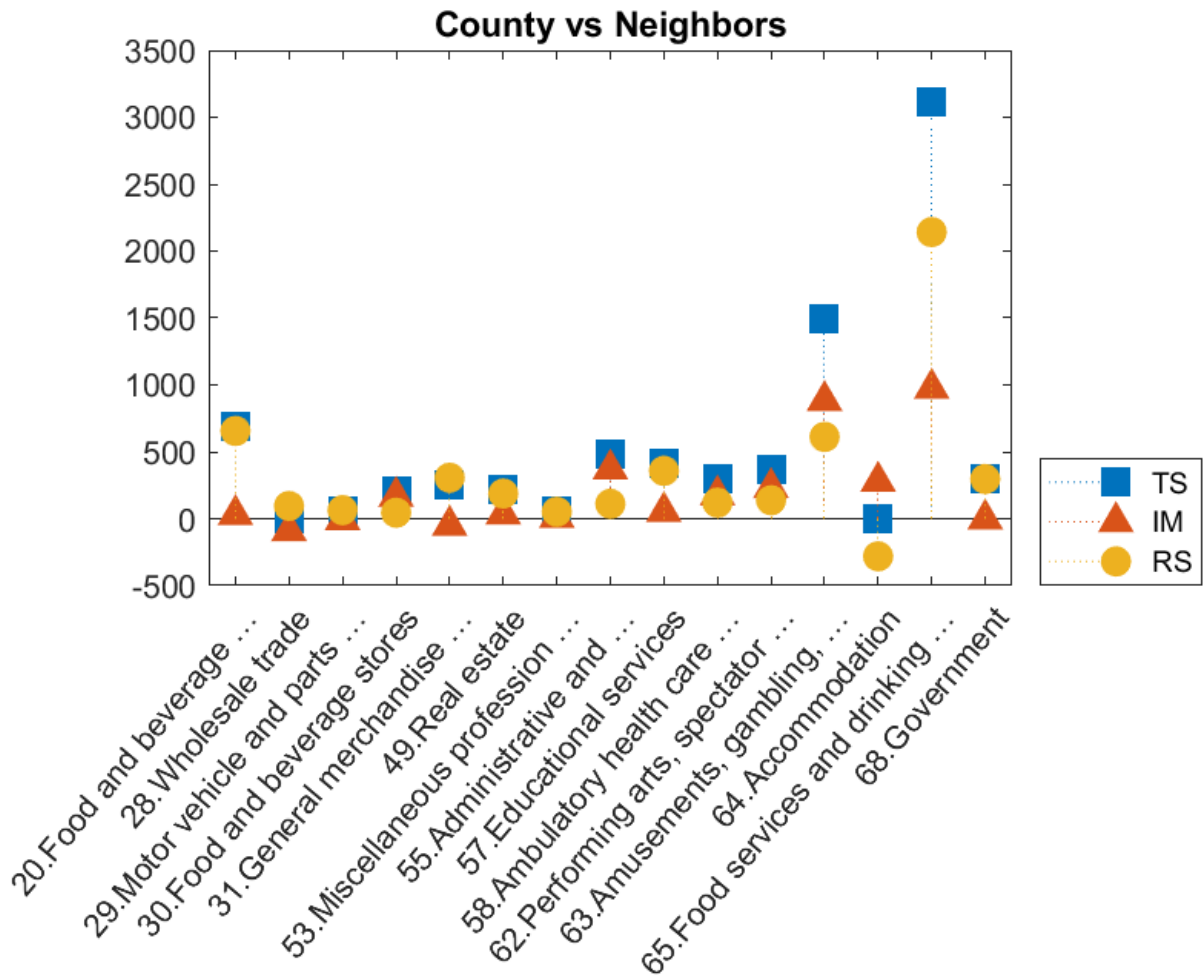


Chapter 44. Sevier County, Tennessee

Selected SSA Components for Sevier County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-------|-------|--------------------|
| 20 | Food and beverage ... | 1 | 710 | -9 | 719 | 939 |
| 28 | Wholesale trade | 2 | 64 | -40 | 104 | 611 |
| 29 | Motor vehicle and parts ... | 1 | 98 | 6 | 92 | 494 |
| 30 | Food and beverage stores | 4 | 339 | -25 | 364 | 1,531 |
| 31 | General merchandise ... | 2 | 324 | -22 | 346 | 957 |
| 49 | Real estate | 3 | 315 | 15 | 300 | 1,184 |
| 53 | Miscellaneous profession ... | 2 | 126 | 82 | 44 | 742 |
| 55 | Administrative and ... | 3 | 562 | 102 | 460 | 1,312 |
| 57 | Educational services | 4 | 523 | 23 | 500 | 1,568 |
| 58 | Ambulatory health care ... | 2 | 354 | 172 | 182 | 888 |
| 62 | Performing arts, spectator ... | 5 | 521 | 298 | 223 | 1,945 |
| 63 | Amusements, gambling, ... | 7 | 1,724 | 330 | 1,394 | 3,876 |
| 64 | Accommodation | 18 | 564 | 1,074 | -510 | 5,869 |
| 65 | Food services and drinking ... | 21 | 3,764 | 1,211 | 2,553 | 9,842 |
| 68 | Government | 5 | 460 | 21 | 439 | 2,013 |

Selected SSA Components for Sevier County, Tennessee vs Neighbors



Chapter 44. Sevier County, Tennessee

Selected SSA Components for Sevier County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-------|-----|-------|-----------------|
| 20 | Food and beverage ... | 25 | 686 | 30 | 656 | 939 |
| 28 | Wholesale trade | 60 | 5 | -90 | 95 | 611 |
| 29 | Motor vehicle and parts ... | 44 | 56 | -8 | 64 | 494 |
| 30 | Food and beverage stores | 131 | 212 | 167 | 45 | 1,531 |
| 31 | General merchandise ... | 70 | 256 | -50 | 306 | 957 |
| 49 | Real estate | 96 | 223 | 35 | 188 | 1,184 |
| 53 | Miscellaneous profession ... | 68 | 61 | 9 | 52 | 742 |
| 55 | Administrative and ... | 83 | 482 | 371 | 111 | 1,312 |
| 57 | Educational services | 115 | 411 | 53 | 358 | 1,568 |
| 58 | Ambulatory health care ... | 59 | 297 | 177 | 120 | 888 |
| 62 | Performing arts, spectator ... | 157 | 370 | 232 | 138 | 1,945 |
| 63 | Amusements, gambling, ... | 237 | 1,494 | 883 | 611 | 3,876 |
| 64 | Accommodation | 584 | -2 | 279 | -281 | 5,869 |
| 65 | Food services and drinking ... | 669 | 3,116 | 974 | 2,142 | 9,842 |
| 68 | Government | 171 | 294 | -3 | 297 | 2,013 |

Chapter 45. Smith County, Tennessee

Employment in Smith County, Tennessee, declined from 5,345 in 2005 to 5,340 in 2018, for a change of -5, or -0.09%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Smith County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-----|------|------|--------|
| vs. U.S. | 604 | -608 | -132 | -476 |
| vs. Appalachia | 14 | -25 | 67 | -92 |
| vs. Neighbors | 939 | -942 | 160 | -1,102 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Smith County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 45. Smith County, Tennessee

Industry Group Membership for Smith County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 05 | Mining, except coal, oil ... | F III c i | no | yes | yes | yes |
| 11 | Primary metals | F III c i | no | yes | yes | yes |
| 13 | Machinery | F III c n | no | yes | yes | no |
| 16 | Motor vehicles, bodies ... | C IV b iv | yes | no | yes | no |
| 23 | Paper products | D III c iii | no | yes | yes | yes |
| 31 | General merchandise ... | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a ii | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 65 | Food services and drinking ... | B II b v | yes | yes | yes | no |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Smith County, Tennessee vs. the United States

Groups a, b, and c are from Smith County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Smith County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Smith County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Smith County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Smith County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Smith County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

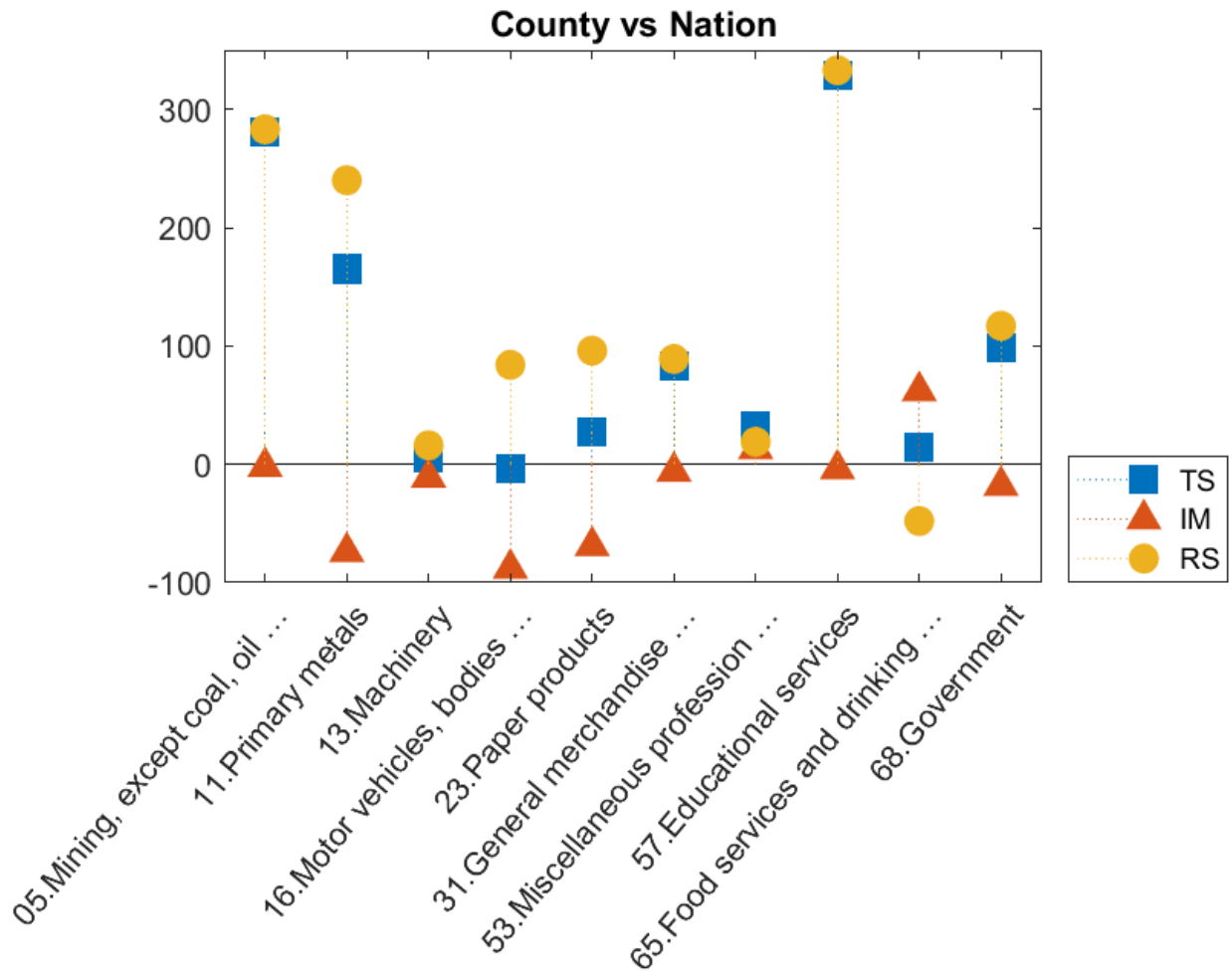
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Smith County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Smith County, Tennessee vs the U.S.

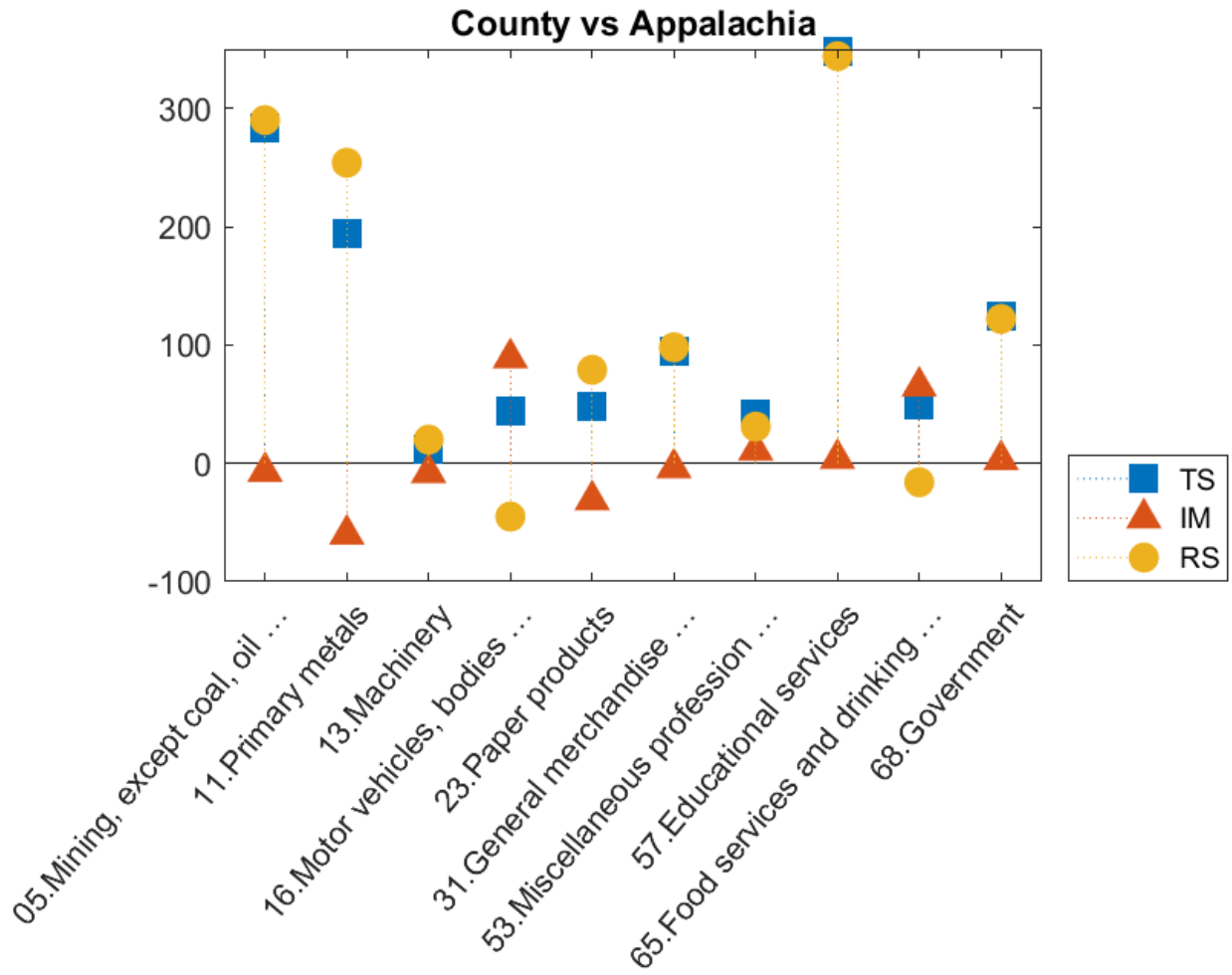


Chapter 45. Smith County, Tennessee

Smith County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 05 | Mining, except coal, oil ... | 2 | 281 | -2 | 283 | 300 |
| 11 | Primary metals | 28 | 166 | -74 | 240 | 445 |
| 13 | Machinery | 7 | 5 | -11 | 16 | 77 |
| 16 | Motor vehicles, bodies ... | 49 | -4 | -88 | 84 | 481 |
| 23 | Paper products | 22 | 27 | -69 | 96 | 241 |
| 31 | General merchandise ... | 12 | 83 | -6 | 89 | 198 |
| 53 | Miscellaneous profession ... | 9 | 32 | 13 | 19 | 120 |
| 57 | Educational services | 20 | 329 | -4 | 333 | 527 |
| 65 | Food services and drinking ... | 37 | 14 | 62 | -48 | 374 |
| 68 | Government | 26 | 99 | -18 | 117 | 358 |

Selected SSA Components for Smith County, Tennessee vs the Appalachian Region

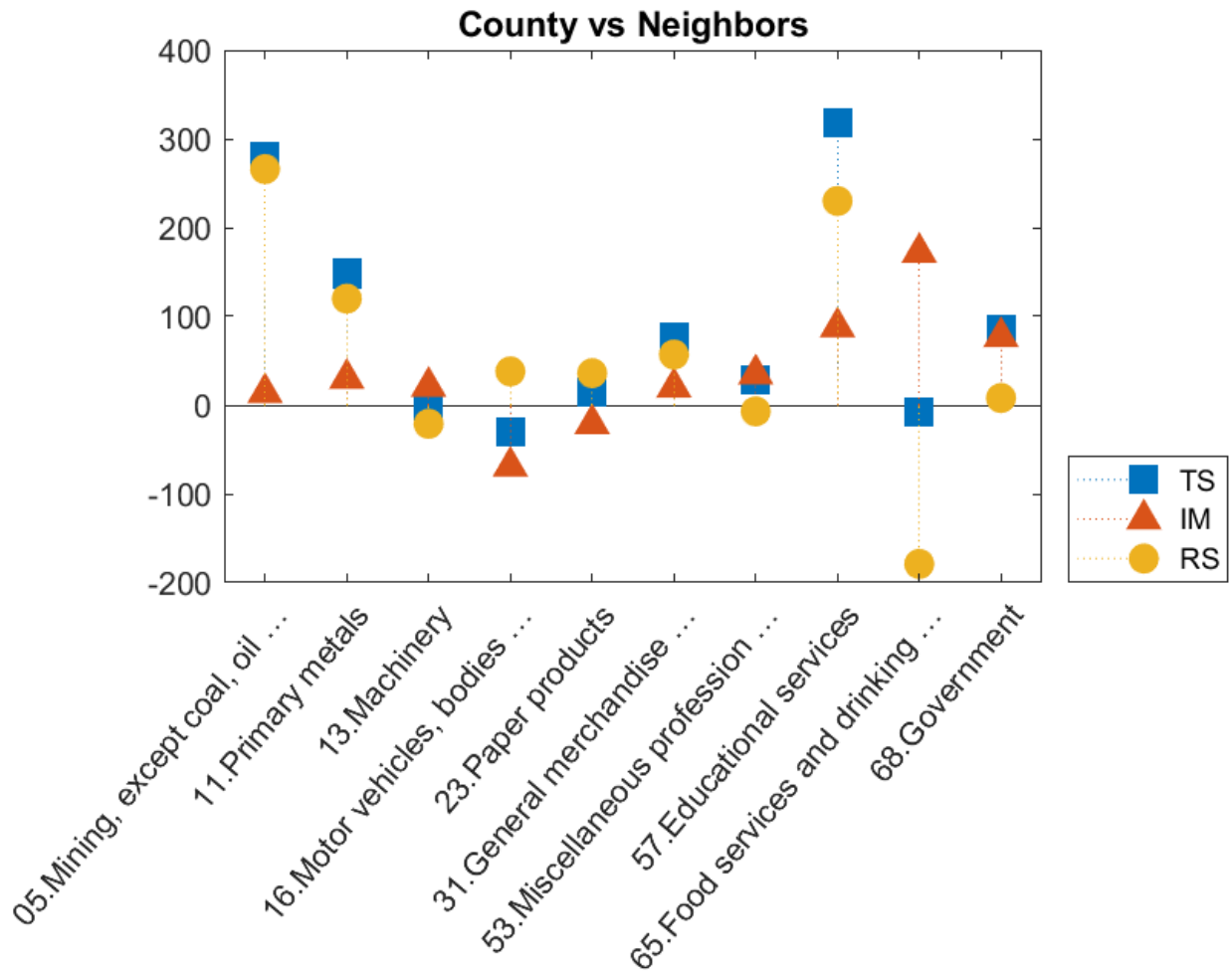


Chapter 45. Smith County, Tennessee

Selected SSA Components for Smith County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 05 | Mining, except coal, oil ... | 0 | 283 | -7 | 290 | 300 |
| 11 | Primary metals | 1 | 194 | -60 | 254 | 445 |
| 13 | Machinery | 0 | 12 | -8 | 20 | 77 |
| 16 | Motor vehicles, bodies ... | 1 | 44 | 89 | -45 | 481 |
| 23 | Paper products | 1 | 48 | -31 | 79 | 241 |
| 31 | General merchandise ... | 0 | 94 | -4 | 98 | 198 |
| 53 | Miscellaneous profession ... | 0 | 42 | 11 | 31 | 120 |
| 57 | Educational services | 1 | 348 | 4 | 344 | 527 |
| 65 | Food services and drinking ... | 1 | 49 | 65 | -16 | 374 |
| 68 | Government | 1 | 125 | 3 | 122 | 358 |

Selected SSA Components for Smith County, Tennessee vs Neighbors



Chapter 45. Smith County, Tennessee

Selected SSA Components for Smith County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|------|--------------------|
| 05 | Mining, except coal, oil ... | 3 | 280 | 14 | 266 | 300 |
| 11 | Primary metals | 44 | 150 | 30 | 120 | 445 |
| 13 | Machinery | 11 | 0 | 21 | -21 | 77 |
| 16 | Motor vehicles, bodies ... | 76 | -31 | -69 | 38 | 481 |
| 23 | Paper products | 34 | 15 | -21 | 36 | 241 |
| 31 | General merchandise ... | 18 | 77 | 20 | 57 | 198 |
| 53 | Miscellaneous profession ... | 14 | 28 | 35 | -7 | 120 |
| 57 | Educational services | 31 | 318 | 88 | 230 | 527 |
| 65 | Food services and drinking ... | 57 | -7 | 172 | -179 | 374 |
| 68 | Government | 41 | 85 | 77 | 8 | 358 |

Chapter 46. Sullivan County, Tennessee

Employment in Sullivan County, Tennessee, grew from 68,224 in 2005 to 68,417 in 2018, for a change of 193, or 0.28%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Sullivan County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 7,697 | -7,504 | -422 | -7,082 |
| vs. Appalachia | 234 | -33 | 170 | -203 |
| vs. Neighbors | -1,025 | 1,221 | -20 | 1,241 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Sullivan County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 46. Sullivan County, Tennessee

Industry Group Membership for Sullivan County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 32 | Other retail | F III c iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a i | yes | yes | yes | yes |
| 54 | Management of companies ... | A I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B II b ii | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 68 | Government | F III a ii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Sullivan County, Tennessee vs. the United States

Groups a, b, and c are from Sullivan County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Sullivan County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Sullivan County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Sullivan County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Sullivan County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Sullivan County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

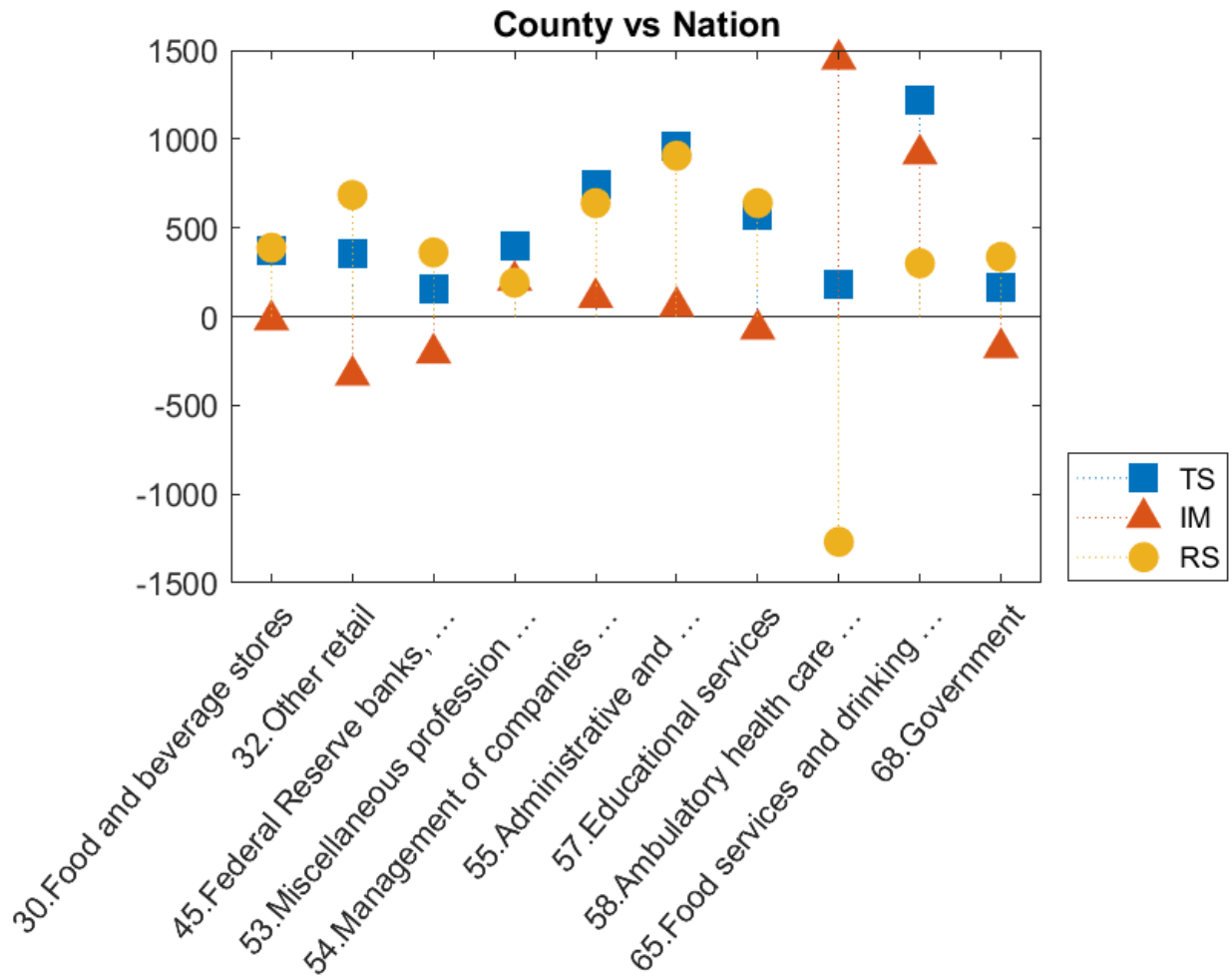
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Sullivan County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Sullivan County, Tennessee vs the U.S.

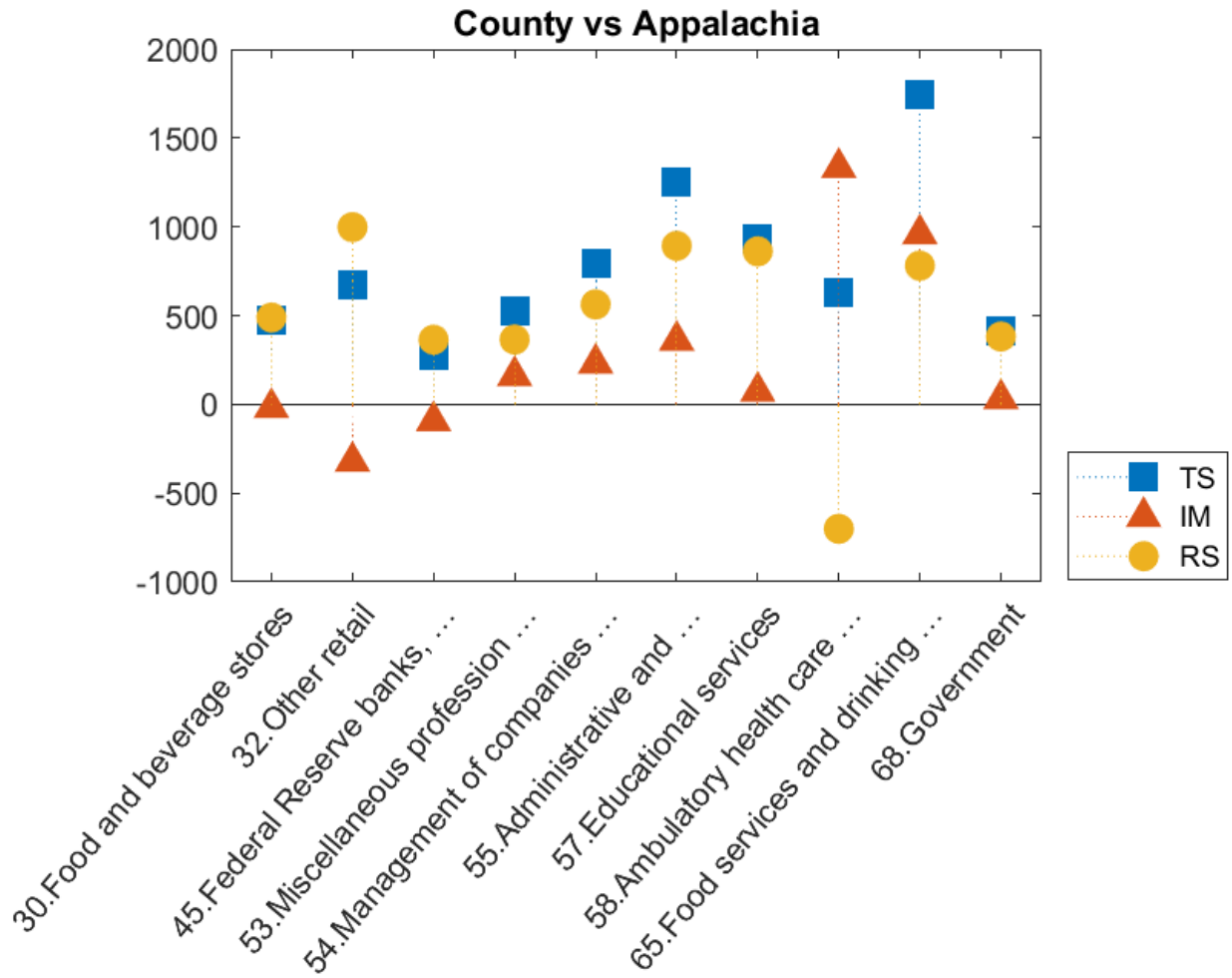


Chapter 46. Sullivan County, Tennessee

Sullivan County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-------|-------|--------|--------------------|
| 30 | Food and beverage stores | 104 | 369 | -19 | 388 | 1,395 |
| 32 | Other retail | 333 | 354 | -331 | 685 | 3,636 |
| 45 | Federal Reserve banks, ... | 120 | 155 | -206 | 361 | 1,334 |
| 53 | Miscellaneous profession ... | 136 | 394 | 203 | 191 | 1,734 |
| 54 | Management of companies ... | 51 | 745 | 106 | 639 | 1,247 |
| 55 | Administrative and ... | 299 | 963 | 57 | 906 | 3,911 |
| 57 | Educational services | 378 | 568 | -71 | 639 | 4,302 |
| 58 | Ambulatory health care ... | 466 | 180 | 1,449 | -1,269 | 4,776 |
| 65 | Food services and drinking ... | 542 | 1,215 | 915 | 300 | 6,559 |
| 68 | Government | 261 | 160 | -176 | 336 | 2,734 |

Selected SSA Components for Sullivan County, Tennessee vs the Appalachian Region

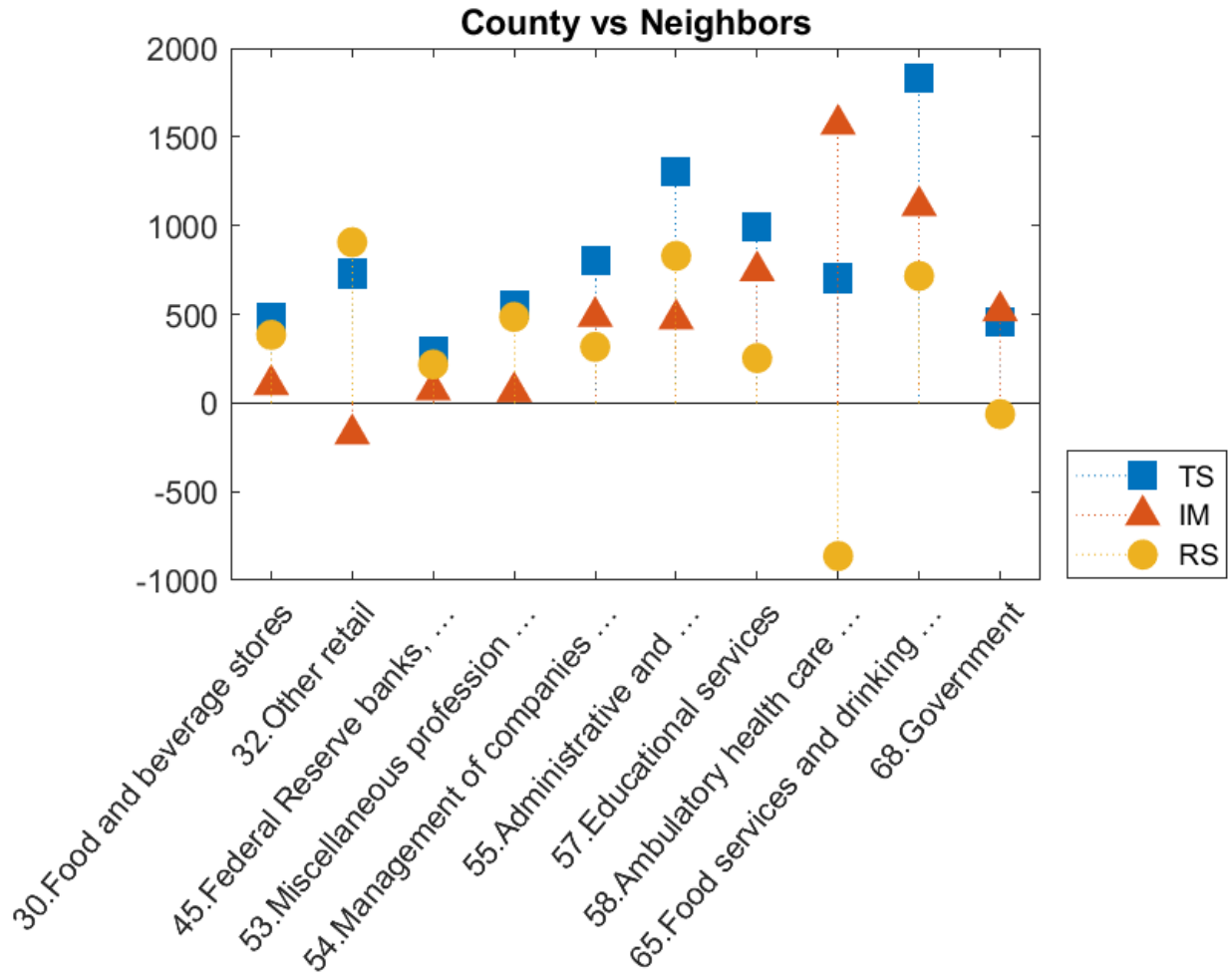


Chapter 46. Sullivan County, Tennessee

Selected SSA Components for Sullivan County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-------|-------|------|--------------------|
| 30 | Food and beverage stores | 3 | 470 | -19 | 489 | 1,395 |
| 32 | Other retail | 10 | 677 | -321 | 998 | 3,636 |
| 45 | Federal Reserve banks, ... | 4 | 271 | -93 | 364 | 1,334 |
| 53 | Miscellaneous profession ... | 4 | 526 | 161 | 365 | 1,734 |
| 54 | Management of companies ... | 2 | 794 | 231 | 563 | 1,247 |
| 55 | Administrative and ... | 9 | 1,253 | 360 | 893 | 3,911 |
| 57 | Educational services | 11 | 935 | 73 | 862 | 4,302 |
| 58 | Ambulatory health care ... | 14 | 632 | 1,333 | -701 | 4,776 |
| 65 | Food services and drinking ... | 16 | 1,741 | 960 | 781 | 6,559 |
| 68 | Government | 8 | 413 | 31 | 382 | 2,734 |

Selected SSA Components for Sullivan County, Tennessee vs Neighbors



Chapter 46. Sullivan County, Tennessee

Selected SSA Components for Sullivan County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-------|-------|------|--------------------|
| 30 | Food and beverage stores | -14 | 487 | 103 | 384 | 1,395 |
| 32 | Other retail | -44 | 731 | -175 | 906 | 3,636 |
| 45 | Federal Reserve banks, ... | -16 | 290 | 73 | 217 | 1,334 |
| 53 | Miscellaneous profession ... | -18 | 548 | 63 | 485 | 1,734 |
| 54 | Management of companies ... | -7 | 803 | 487 | 316 | 1,247 |
| 55 | Administrative and ... | -40 | 1,302 | 473 | 829 | 3,911 |
| 57 | Educational services | -50 | 997 | 744 | 253 | 4,302 |
| 58 | Ambulatory health care ... | -62 | 708 | 1,571 | -863 | 4,776 |
| 65 | Food services and drinking ... | -72 | 1,828 | 1,112 | 716 | 6,559 |
| 68 | Government | -35 | 456 | 519 | -63 | 2,734 |

Chapter 47. Unicoi County, Tennessee

Employment in Unicoi County, Tennessee, declined from 5,995 in 2005 to 4,838 in 2018, for a change of -1,157, or -19.3%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Unicoi County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 675 | -1,836 | -334 | -1,502 |
| vs. Appalachia | 17 | -1,181 | 39 | -1,220 |
| vs. Neighbors | -266 | -901 | -93 | -808 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Unicoi County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 47. Unicoi County, Tennessee

Industry Group Membership for Unicoi County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|--------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 31 | General merchandise ... | F III c iii | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a iii | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B V b ii | yes | no | yes | yes |
| 60 | Nursing and residential ... | E I a iii | no | yes | yes | yes |
| 63 | Amusements, gambling, ... | B V b iii | yes | no | yes | yes |
| 64 | Accommodation | A I a i | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Unicoi County, Tennessee vs. the United States

Groups a, b, and c are from Unicoi County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Unicoi County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Unicoi County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Unicoi County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Unicoi County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Unicoi County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

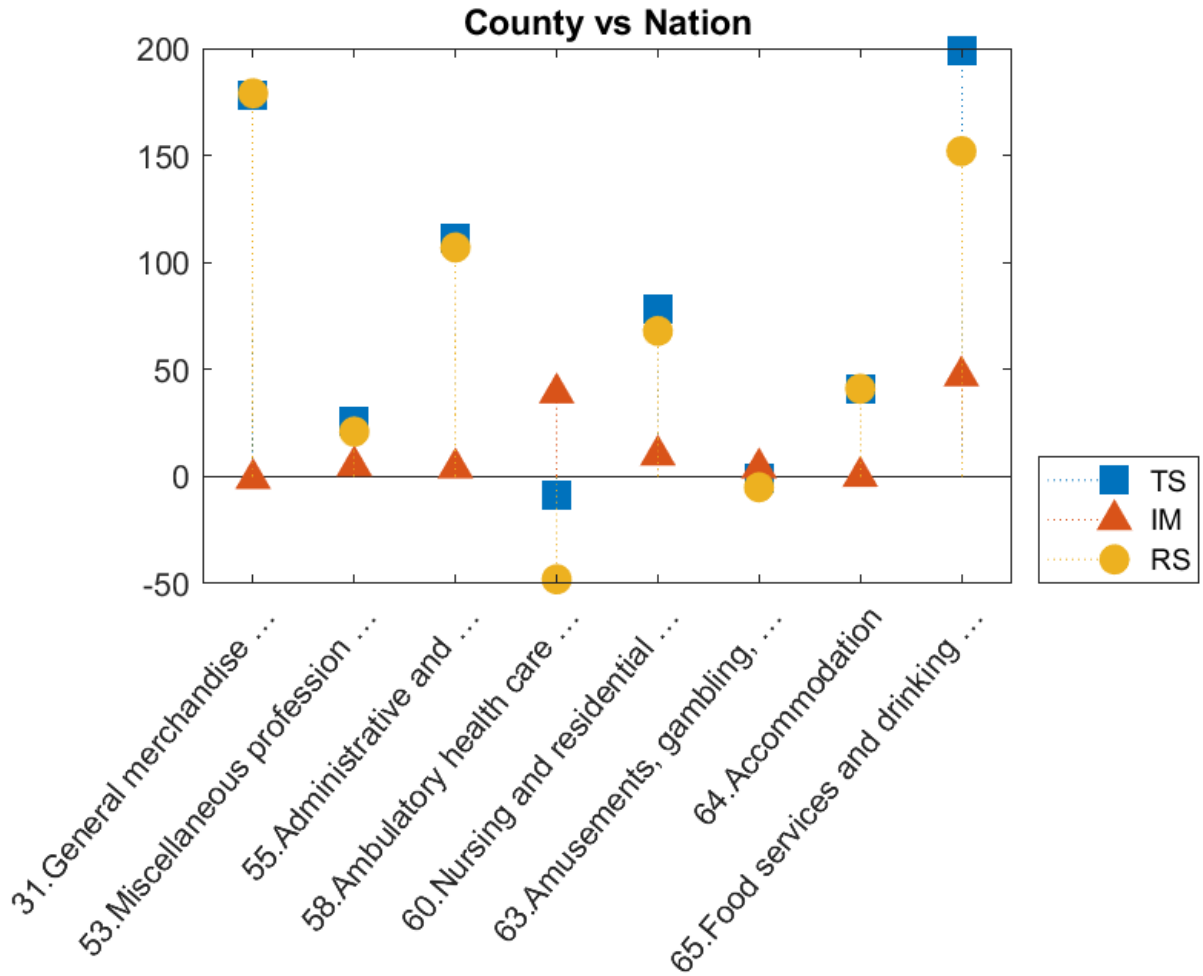
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Unicoi County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Unicoi County, Tennessee vs the U.S.

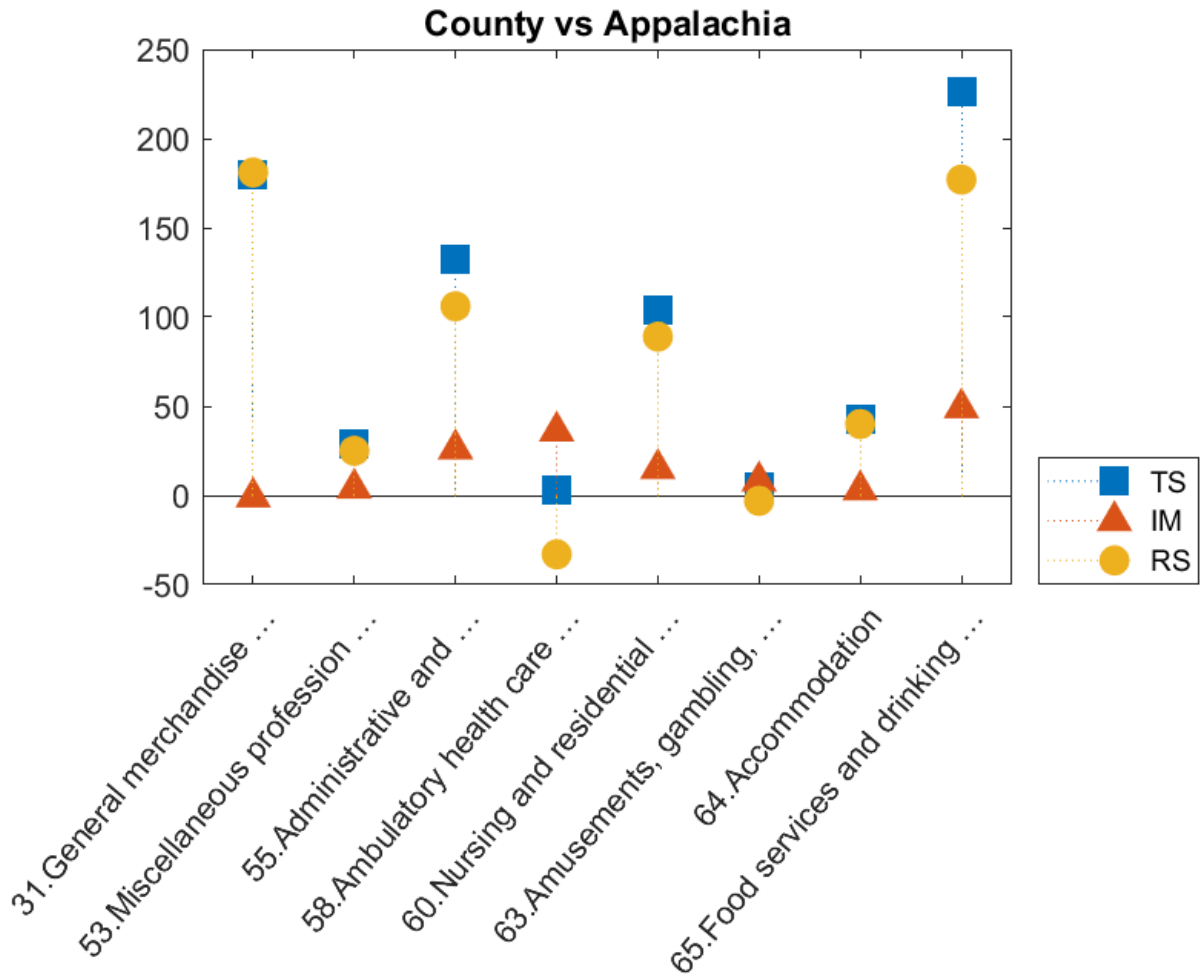


Chapter 47. Unicoi County, Tennessee

Unicoi County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|-----------------------------------|----|-----|----|-----|--------------------|
| 31 | General merchandise ... | 2 | 178 | -1 | 179 | 202 |
| 53 | Miscellaneous profession ... | 3 | 26 | 5 | 21 | 58 |
| 55 | Administrative and ... | 21 | 111 | 4 | 107 | 320 |
| 58 | Ambulatory health care ... | 13 | -9 | 39 | -48 | 116 |
| 60 | Nursing and residential ... | 26 | 78 | 10 | 68 | 338 |
| 63 | Amusements, gambling, ... | 6 | -1 | 4 | -5 | 60 |
| 64 | Accommodation | 2 | 41 | 0 | 41 | 59 |
| 65 | Food services and drinking ... | 28 | 199 | 47 | 152 | 474 |

Selected SSA Components for Unicoi County, Tennessee vs the Appalachian Region

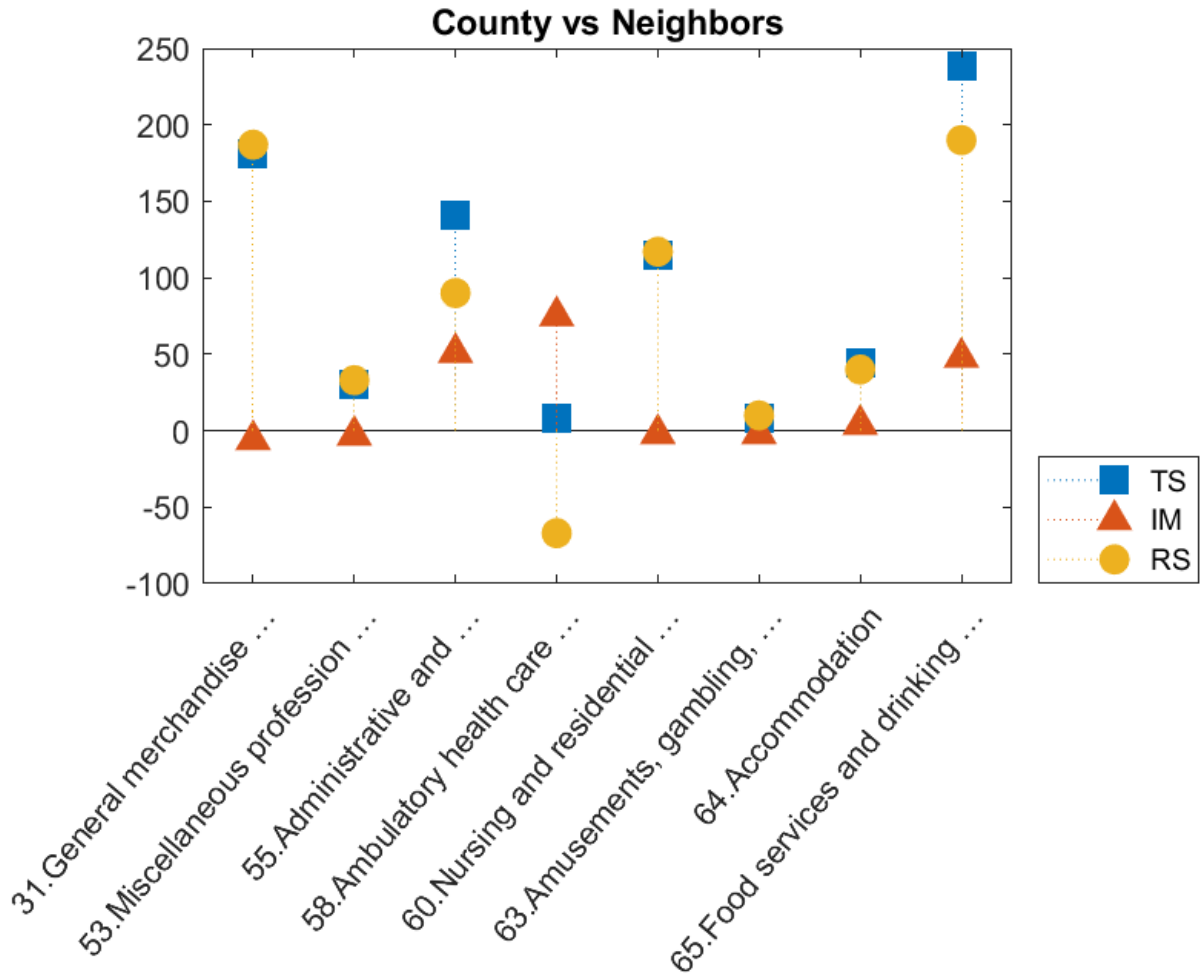


Chapter 47. Unicoi County, Tennessee

Selected SSA Components for Unicoi County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|----|-----|--------------------|
| 31 | General merchandise ... | 0 | 180 | -1 | 181 | 202 |
| 53 | Miscellaneous profession ... | 0 | 29 | 4 | 25 | 58 |
| 55 | Administrative and ... | 1 | 132 | 26 | 106 | 320 |
| 58 | Ambulatory health care ... | 0 | 3 | 36 | -33 | 116 |
| 60 | Nursing and residential ... | 1 | 104 | 15 | 89 | 338 |
| 63 | Amusements, gambling, ... | 0 | 5 | 8 | -3 | 60 |
| 64 | Accommodation | 0 | 43 | 3 | 40 | 59 |
| 65 | Food services and drinking ... | 1 | 226 | 49 | 177 | 474 |

Selected SSA Components for Unicoi County, Tennessee vs Neighbors



Chapter 47. Unicoi County, Tennessee

Selected SSA Components for Unicoi County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-----|----|-----|-----------------|
| 31 | General merchandise ... | -1 | 181 | -6 | 187 | 202 |
| 53 | Miscellaneous profession ... | -1 | 30 | -3 | 33 | 58 |
| 55 | Administrative and ... | -8 | 141 | 51 | 90 | 320 |
| 58 | Ambulatory health care ... | -5 | 8 | 75 | -67 | 116 |
| 60 | Nursing and residential ... | -10 | 115 | -2 | 117 | 338 |
| 63 | Amusements, gambling, ... | -2 | 8 | -2 | 10 | 60 |
| 64 | Accommodation | -1 | 44 | 4 | 40 | 59 |
| 65 | Food services and drinking ... | -11 | 238 | 48 | 190 | 474 |

Chapter 48. Union County, Tennessee

Employment in Union County, Tennessee, declined from 3,764 in 2005 to 2,476 in 2018, for a change of -1,288, or -34.22%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Union County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 424 | -1,711 | -160 | -1,551 |
| vs. Appalachia | 9 | -1,299 | -38 | -1,261 |
| vs. Neighbors | 198 | -1,482 | 32 | -1,514 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Union County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 48. Union County, Tennessee

Industry Group Membership for Union County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 19 | Miscellaneous manufac ... | F III c iii | no | yes | yes | yes |
| 26 | Chemical products | F I a i | no | yes | yes | yes |
| 30 | Food and beverage stores | F III c i | no | yes | yes | yes |
| 31 | General merchandise ... | F III c iii | no | yes | yes | yes |
| 36 | Truck transportation | F III c i | no | yes | yes | yes |
| 53 | Miscellaneous profession ... | B I a iii | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 59 | Hospitals | E I a i | no | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Union County, Tennessee vs. the United States

Groups a, b, and c are from Union County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Union County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Union County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Union County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Union County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Union County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

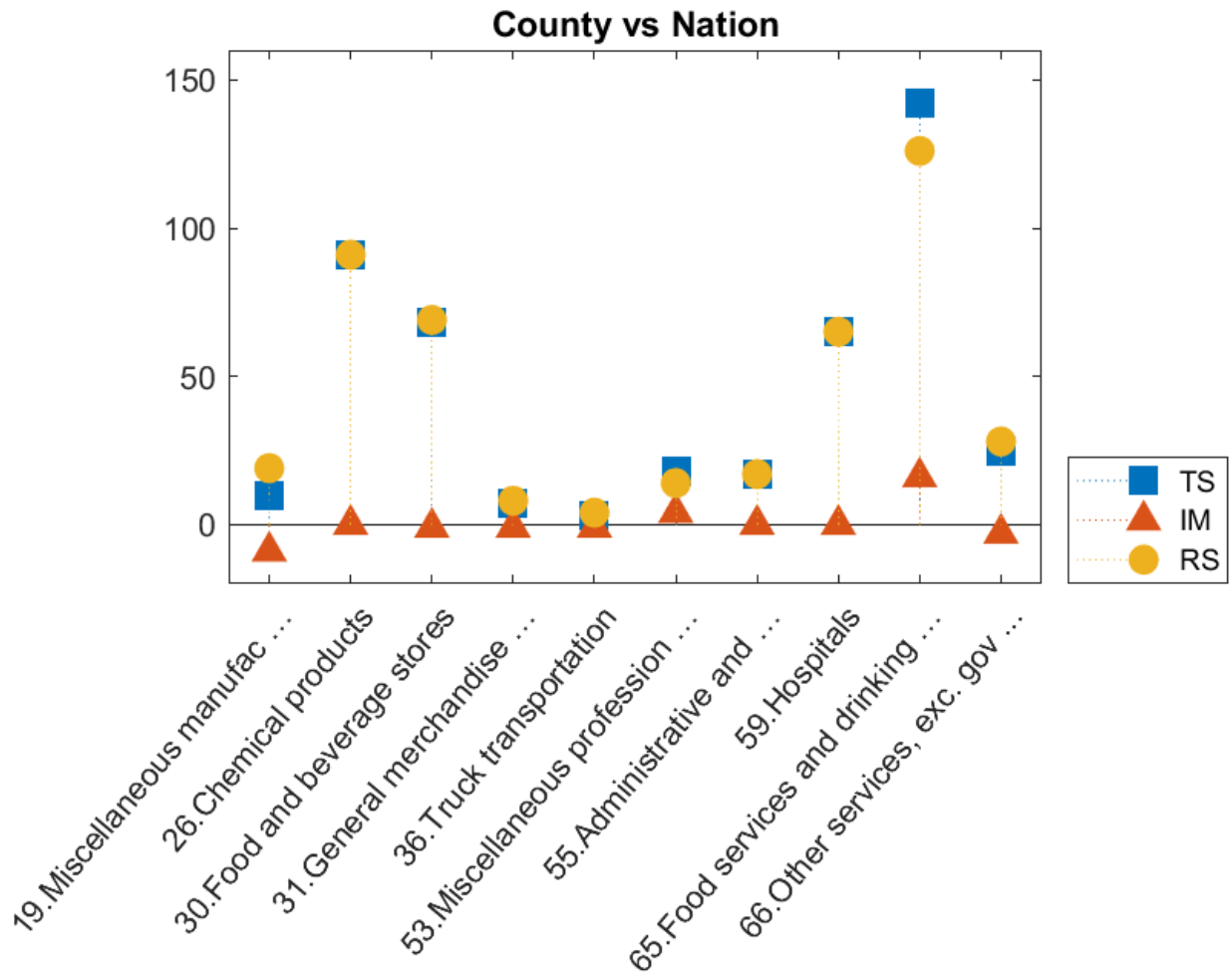
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Union County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Union County, Tennessee vs the U.S.

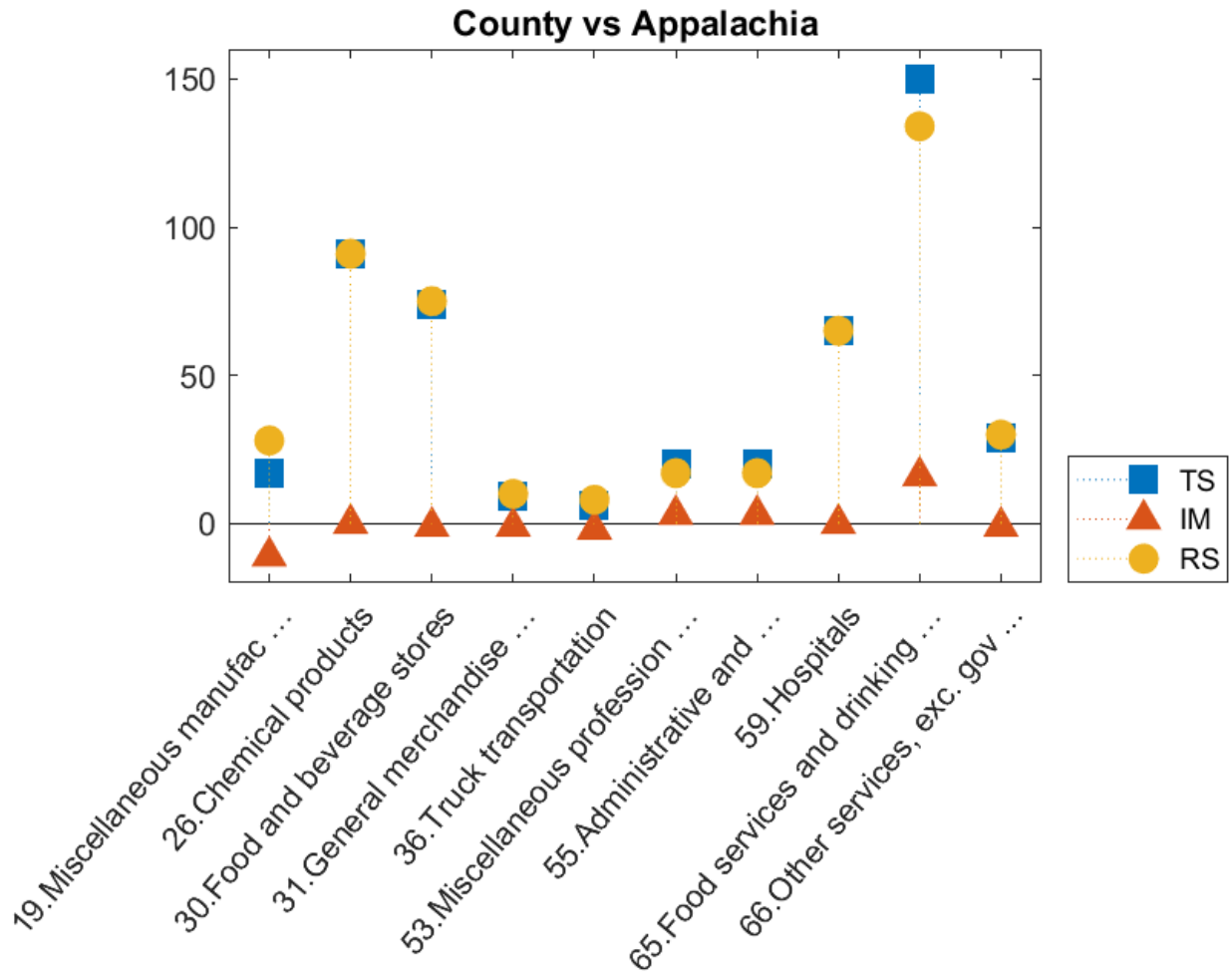


Chapter 48. Union County, Tennessee

Union County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|----|-----|--------------------|
| 19 | Miscellaneous manufac ... | 6 | 10 | -9 | 19 | 70 |
| 26 | Chemical products | 0 | 91 | 0 | 91 | 91 |
| 30 | Food and beverage stores | 6 | 68 | -1 | 69 | 128 |
| 31 | General merchandise ... | 3 | 7 | -1 | 8 | 33 |
| 36 | Truck transportation | 3 | 3 | -1 | 4 | 31 |
| 53 | Miscellaneous profession ... | 2 | 18 | 4 | 14 | 41 |
| 55 | Administrative and ... | 2 | 17 | 0 | 17 | 41 |
| 59 | Hospitals | 0 | 65 | 0 | 65 | 65 |
| 65 | Food services and drinking ... | 9 | 142 | 16 | 126 | 232 |
| 66 | Other services, exc. gov ... | 4 | 25 | -3 | 28 | 64 |

Selected SSA Components for Union County, Tennessee vs the Appalachian Region

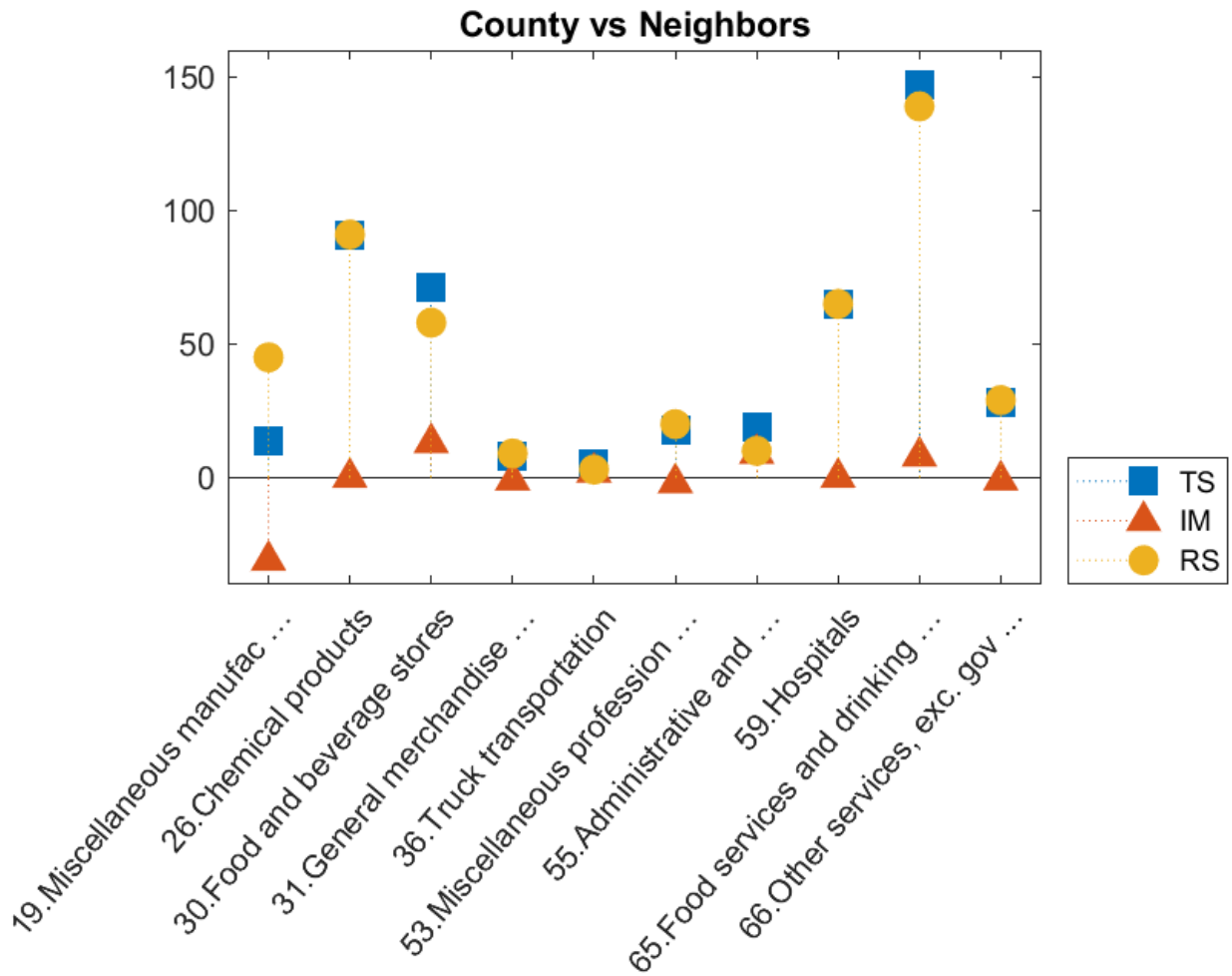


Chapter 48. Union County, Tennessee

Selected SSA Components for Union County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 19 | Miscellaneous manufac ... | 0 | 17 | -11 | 28 | 70 |
| 26 | Chemical products | 0 | 91 | 0 | 91 | 91 |
| 30 | Food and beverage stores | 0 | 74 | -1 | 75 | 128 |
| 31 | General merchandise ... | 0 | 9 | -1 | 10 | 33 |
| 36 | Truck transportation | 0 | 6 | -2 | 8 | 31 |
| 53 | Miscellaneous profession ... | 0 | 20 | 3 | 17 | 41 |
| 55 | Administrative and ... | 0 | 20 | 3 | 17 | 41 |
| 59 | Hospitals | 0 | 65 | 0 | 65 | 65 |
| 65 | Food services and drinking ... | 0 | 150 | 16 | 134 | 232 |
| 66 | Other services, exc. gov ... | 0 | 29 | -1 | 30 | 64 |

Selected SSA Components for Union County, Tennessee vs Neighbors



Chapter 48. Union County, Tennessee

Selected SSA Components for Union County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|-----|-----|--------------------|
| 19 | Miscellaneous manufac ... | 3 | 14 | -31 | 45 | 70 |
| 26 | Chemical products | 0 | 91 | 0 | 91 | 91 |
| 30 | Food and beverage stores | 3 | 71 | 13 | 58 | 128 |
| 31 | General merchandise ... | 1 | 8 | -1 | 9 | 33 |
| 36 | Truck transportation | 1 | 5 | 2 | 3 | 31 |
| 53 | Miscellaneous profession ... | 1 | 18 | -2 | 20 | 41 |
| 55 | Administrative and ... | 1 | 19 | 9 | 10 | 41 |
| 59 | Hospitals | 0 | 65 | 0 | 65 | 65 |
| 65 | Food services and drinking ... | 4 | 147 | 8 | 139 | 232 |
| 66 | Other services, exc. gov ... | 2 | 28 | -1 | 29 | 64 |

Chapter 49. Van Buren County, Tennessee

Employment in Van Buren County, Tennessee, declined from 1,771 in 2005 to 812 in 2018, for a change of -959, or -54.15%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Van Buren County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|------|--------|------|--------|
| vs. U.S. | 199 | -1,160 | -127 | -1,033 |
| vs. Appalachia | 4 | -963 | -21 | -942 |
| vs. Neighbors | -132 | -827 | 261 | -1,088 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Van Buren County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 49. Van Buren County, Tennessee

Industry Group Membership for Van Buren County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|-----------------|------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| 30 | Food and beverage stores | F I a i | no | yes | yes | yes |
| 39 | Other transportation ... | E I a i | no | yes | yes | yes |
| 54 | Management of companies ... | A I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F I a ii | no | yes | yes | yes |
| 67 | Postal service | D III c i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Van Buren County, Tennessee vs. the United States

Groups a, b, and c are from Van Buren County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Van Buren County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Van Buren County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Van Buren County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Van Buren County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Van Buren County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

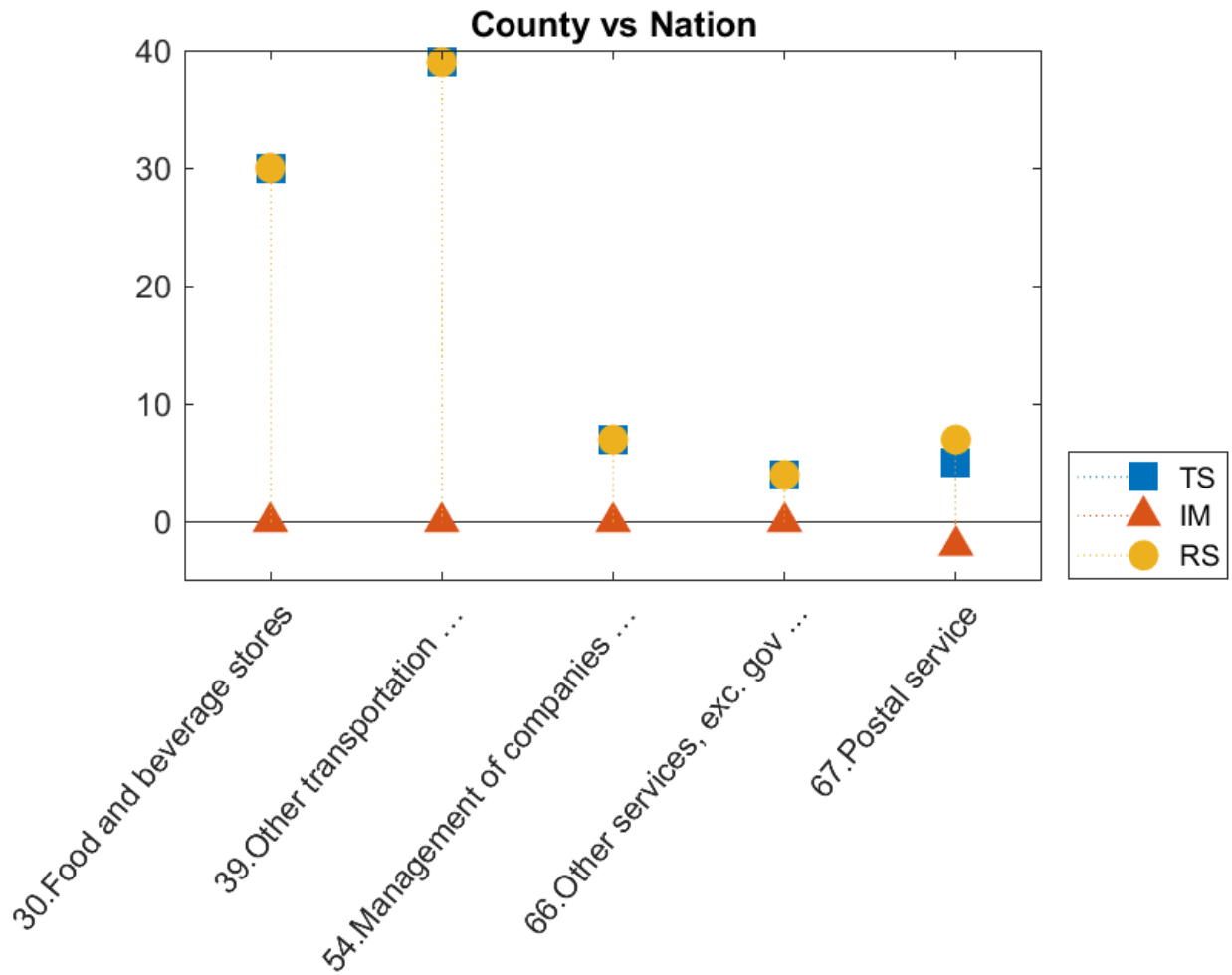
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Van Buren County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Van Buren County, Tennessee vs the U.S.

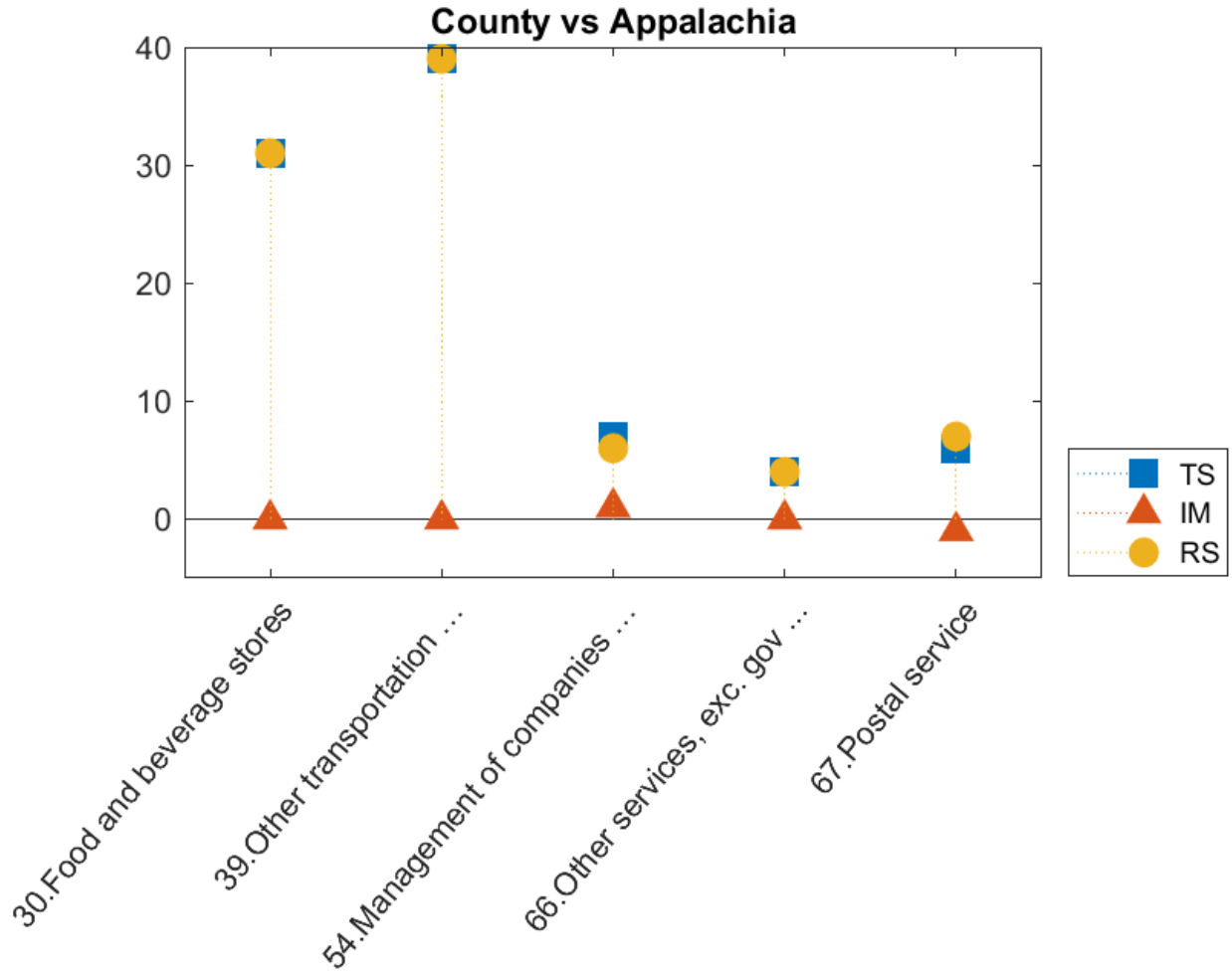


Chapter 49. Van Buren County, Tennessee

Van Buren County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------------|----|----|----|----|--------------------|
| 30 | Food and beverage stores | 1 | 30 | -0 | 30 | 35 |
| 39 | Other transportation ... | 0 | 39 | 0 | 39 | 39 |
| 54 | Management of companies ... | 0 | 7 | 0 | 7 | 9 |
| 66 | Other services, exc. gov ... | 1 | 4 | -0 | 4 | 10 |
| 67 | Postal service | 1 | 5 | -2 | 7 | 11 |

Selected SSA Components for Van Buren County, Tennessee vs the Appalachian Region

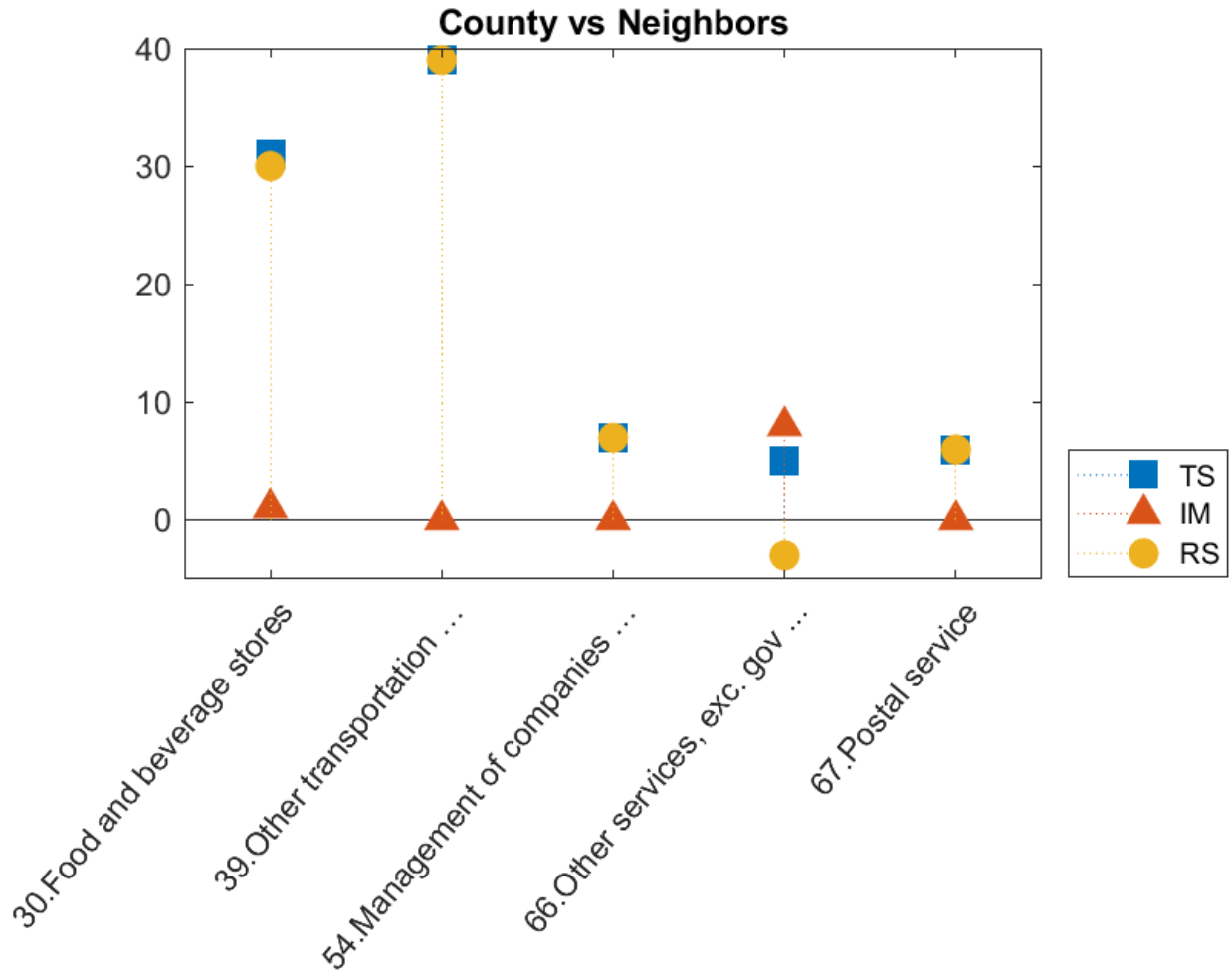


Chapter 49. Van Buren County, Tennessee

Selected SSA Components for Van Buren County, Tennessee vs the
Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------------|----|----|----|----|--------------------|
| 30 | Food and beverage stores | 0 | 31 | -0 | 31 | 35 |
| 39 | Other transportation ... | 0 | 39 | 0 | 39 | 39 |
| 54 | Management of companies ... | 0 | 7 | 1 | 6 | 9 |
| 66 | Other services, exc. gov ... | 0 | 4 | -0 | 4 | 10 |
| 67 | Postal service | 0 | 6 | -1 | 7 | 11 |

Selected SSA Components for Van Buren County, Tennessee vs Neighbors



Chapter 49. Van Buren County, Tennessee

Selected SSA Components for Van Buren County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|------------------------------|----|----|----|----|-----------------|
| 30 | Food and beverage stores | -0 | 31 | 1 | 30 | 35 |
| 39 | Other transportation ... | -0 | 39 | 0 | 39 | 39 |
| 54 | Management of companies ... | -0 | 7 | 0 | 7 | 9 |
| 66 | Other services, exc. gov ... | -0 | 5 | 8 | -3 | 10 |
| 67 | Postal service | -0 | 6 | 0 | 6 | 11 |

Chapter 50. Warren County, Tennessee

Employment in Warren County, Tennessee, declined from 14,828 in 2005 to 12,689 in 2018, for a change of -2,139, or -14.43%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Warren County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|--------|--------|--------|--------|
| vs. U.S. | 1,674 | -3,807 | -1,225 | -2,582 |
| vs. Appalachia | 49 | -2,186 | -346 | -1,840 |
| vs. Neighbors | -1,359 | -786 | -905 | 119 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Warren County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 50. Warren County, Tennessee

Industry Group Membership for Warren County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 12 | Fabricated metal products | F III c iii | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 26 | Chemical products | F III c i | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B II b i | yes | yes | yes | yes |
| 59 | Hospitals | E I a iii | no | yes | yes | yes |
| 60 | Nursing and residential ... | E I a ii | no | yes | yes | yes |
| 65 | Food services and drinking ... | B I a i | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |
| 68 | Government | F III a iii | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Warren County, Tennessee vs. the United States

Groups a, b, and c are from Warren County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Warren County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Warren County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Warren County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Warren County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Warren County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

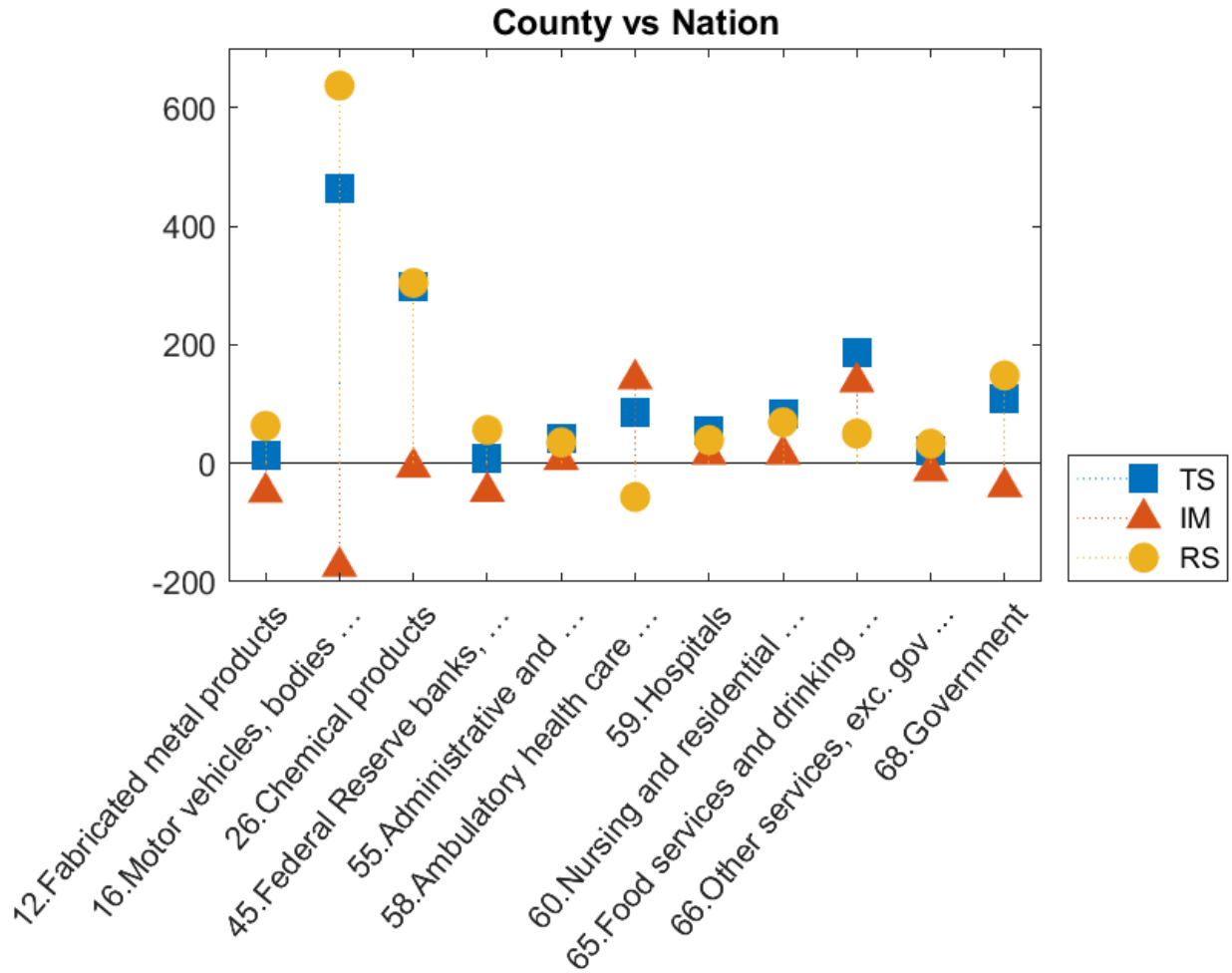
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Warren County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Warren County, Tennessee vs the U.S.

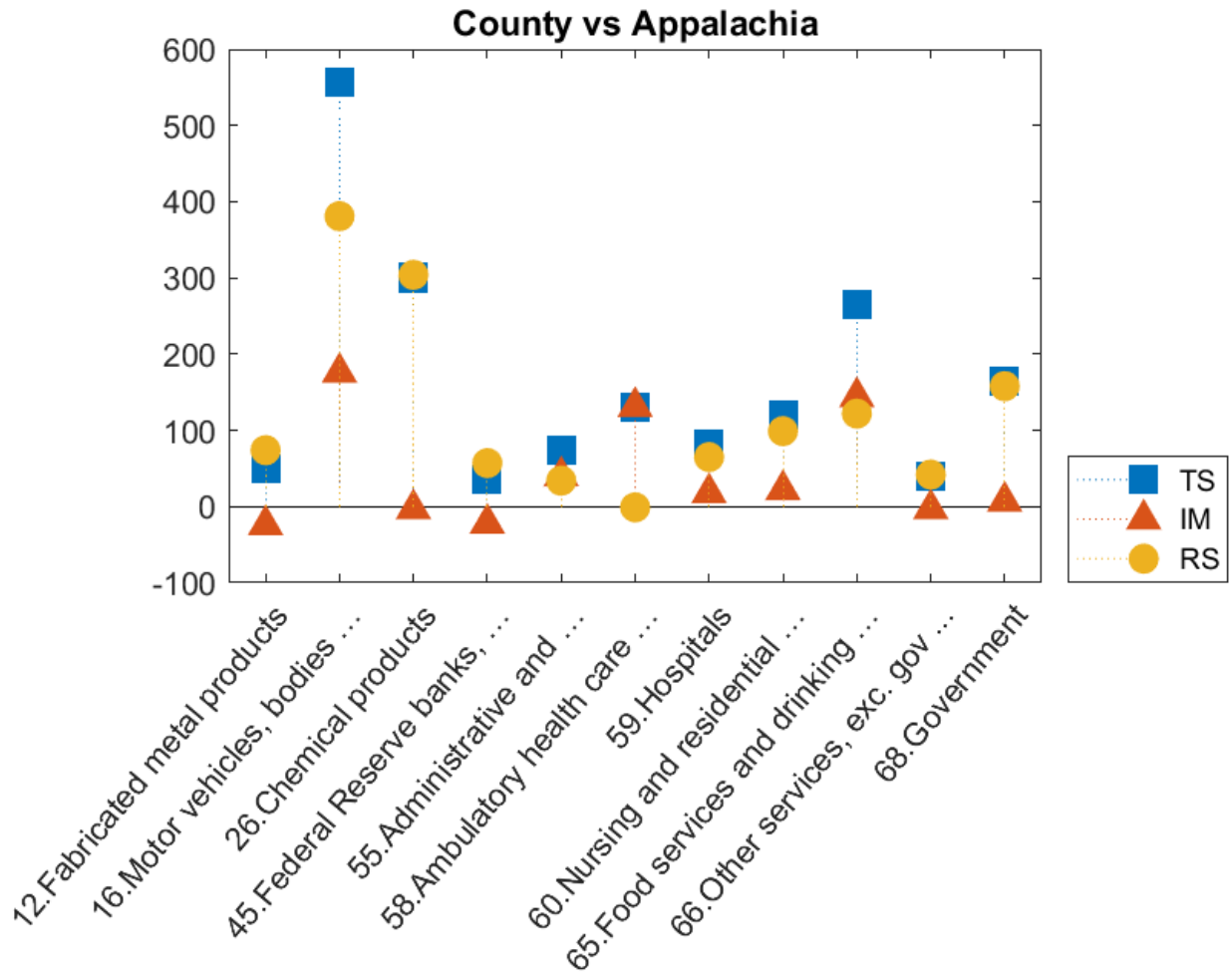


Chapter 50. Warren County, Tennessee

Warren County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-----|------|-----|--------------------|
| 12 | Fabricated metal products | 38 | 14 | -49 | 63 | 384 |
| 16 | Motor vehicles, bodies ... | 97 | 463 | -174 | 637 | 1,423 |
| 26 | Chemical products | 5 | 297 | -7 | 304 | 344 |
| 45 | Federal Reserve banks, ... | 28 | 8 | -48 | 56 | 284 |
| 55 | Administrative and ... | 33 | 41 | 6 | 35 | 366 |
| 58 | Ambulatory health care ... | 46 | 85 | 142 | -57 | 537 |
| 59 | Hospitals | 30 | 54 | 15 | 39 | 350 |
| 60 | Nursing and residential ... | 38 | 84 | 15 | 69 | 460 |
| 65 | Food services and drinking ... | 81 | 187 | 137 | 50 | 987 |
| 66 | Other services, exc. gov ... | 19 | 20 | -13 | 33 | 205 |
| 68 | Government | 59 | 108 | -40 | 148 | 693 |

Selected SSA Components for Warren County, Tennessee vs the Appalachian Region

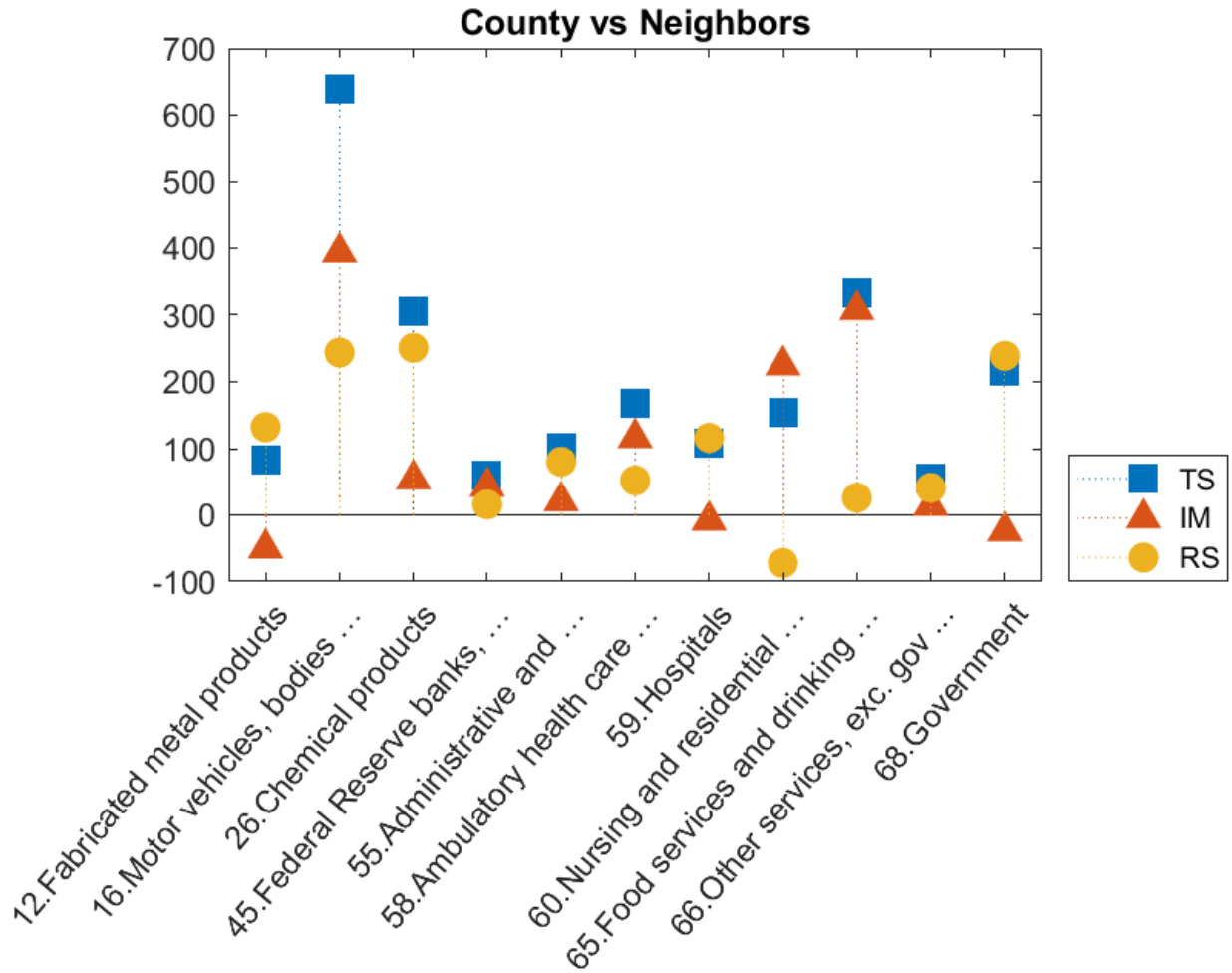


Chapter 50. Warren County, Tennessee

Selected SSA Components for Warren County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|-----------------|
| 12 | Fabricated metal products | 1 | 50 | -24 | 74 | 384 |
| 16 | Motor vehicles, bodies ... | 3 | 557 | 176 | 381 | 1,423 |
| 26 | Chemical products | 0 | 301 | -3 | 304 | 344 |
| 45 | Federal Reserve banks, ... | 1 | 35 | -22 | 57 | 284 |
| 55 | Administrative and ... | 1 | 74 | 40 | 34 | 366 |
| 58 | Ambulatory health care ... | 1 | 130 | 131 | -1 | 537 |
| 59 | Hospitals | 1 | 83 | 18 | 65 | 350 |
| 60 | Nursing and residential ... | 1 | 121 | 22 | 99 | 460 |
| 65 | Food services and drinking ... | 2 | 266 | 144 | 122 | 987 |
| 66 | Other services, exc. gov ... | 1 | 39 | -3 | 42 | 205 |
| 68 | Government | 2 | 165 | 7 | 158 | 693 |

Selected SSA Components for Warren County, Tennessee vs Neighbors



Chapter 50. Warren County, Tennessee

Selected SSA Components for Warren County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-----|-----|-----|--------------------|
| 12 | Fabricated metal products | -31 | 82 | -50 | 132 | 384 |
| 16 | Motor vehicles, bodies ... | -79 | 638 | 394 | 244 | 1,423 |
| 26 | Chemical products | -4 | 305 | 54 | 251 | 344 |
| 45 | Federal Reserve banks, ... | -23 | 59 | 43 | 16 | 284 |
| 55 | Administrative and ... | -27 | 101 | 21 | 80 | 366 |
| 58 | Ambulatory health care ... | -37 | 168 | 116 | 52 | 537 |
| 59 | Hospitals | -24 | 108 | -8 | 116 | 350 |
| 60 | Nursing and residential ... | -31 | 153 | 225 | -72 | 460 |
| 65 | Food services and drinking ... | -66 | 334 | 308 | 26 | 987 |
| 66 | Other services, exc. gov ... | -15 | 55 | 14 | 41 | 205 |
| 68 | Government | -48 | 215 | -24 | 239 | 693 |

Chapter 51. Washington County, Tennessee

Employment in Washington County, Tennessee, grew from 59,231 in 2005 to 61,447 in 2018, for a change of 2,216, or 3.74%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for Washington County, Tennessee

| County Summary | NS | TS | IM | RS |
|-----------------------|-----------|-----------|-----------|-----------|
| vs. U.S. | 6,683 | -4,464 | -1,022 | -3,442 |
| vs. Appalachia | 201 | 2,018 | 820 | 1,198 |
| vs. Neighbors | -974 | 3,191 | 1,524 | 1,667 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to Washington County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 51. Washington County, Tennessee

Industry Group Membership for Washington County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 32 | Other retail | F III c i | no | yes | yes | yes |
| 54 | Management of companies ... | A I a i | yes | yes | yes | yes |
| 55 | Administrative and ... | A I a ii | yes | yes | yes | yes |
| 57 | Educational services | F III a i | no | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 60 | Nursing and residential ... | E I a iii | no | yes | yes | yes |
| 61 | Social assistance | B V b i | yes | no | yes | yes |
| 65 | Food services and drinking ... | B II b ii | yes | yes | yes | yes |
| 68 | Government | F III a i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from Washington County, Tennessee vs. the United States

Groups a, b, and c are from Washington County, Tennessee vs. Appalachia

Groups i, ii, and iii are from Washington County, Tennessee vs. its neighbors

Industry-Specific Results

Below we report the results for the three shift-share analyses comparing Washington County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by Washington County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

The chart provides a visual display of the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) components of change. The IM indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. So, a positive value here also means that the industry is growing more rapidly than the overall growth rate for the referent region. The RS component measures the actual employment change in the industry in Washington County, Tennessee, after adjusting for overall referent-region and industry-specific growth rates. A positive value here reflects better than expected industry performance, which implies that Washington County, Tennessee, might have a comparative advantage as a location for this industry. The tables also include the 2018 employment estimates for each reported industry.

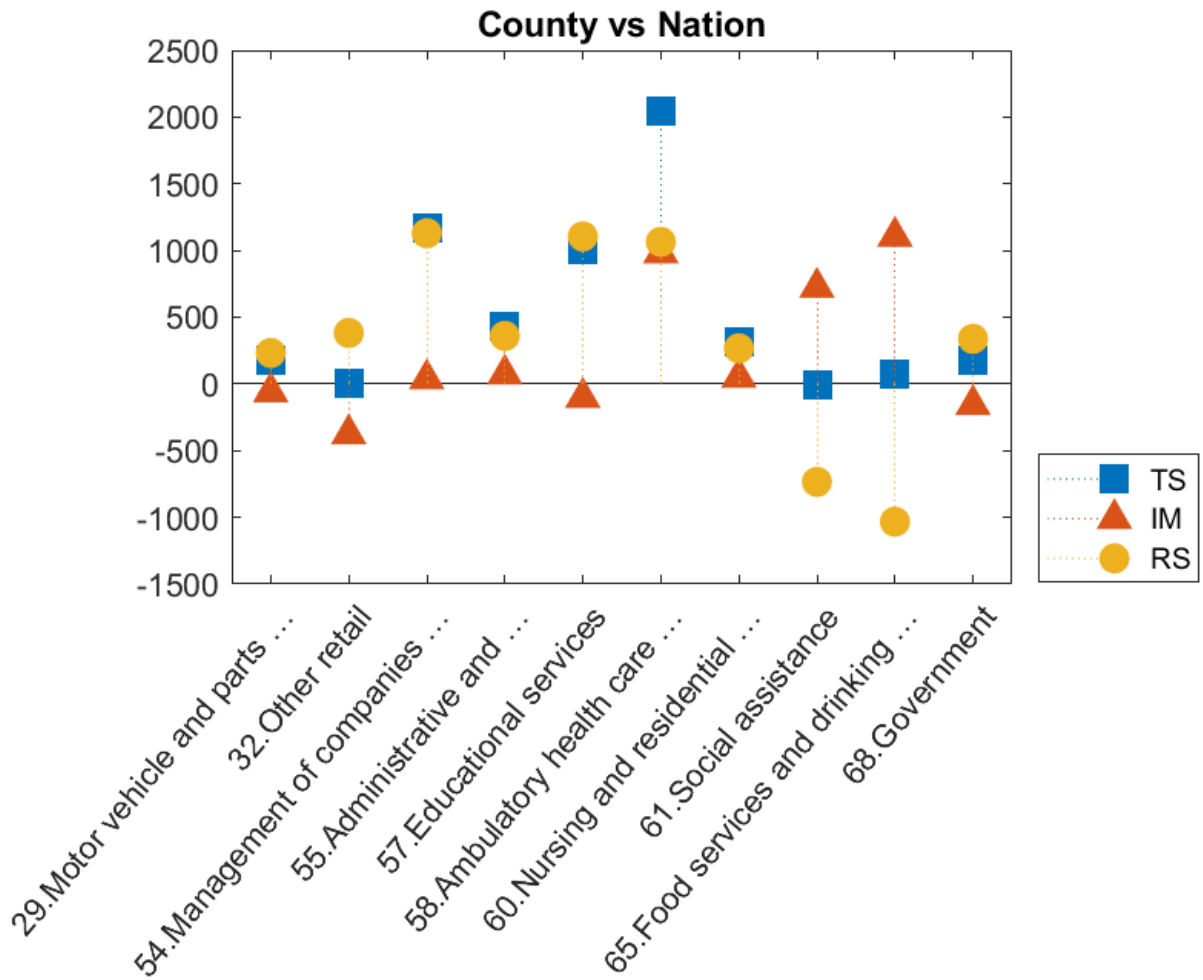
The TS component is the sum of the IM and RS components. A positive TS value also conveys a positive message, especially when both IM and RS are positive. When IM is positive but RS is negative, a positive TS indicates that although the county might not enjoy a regional comparative advantage, the industry in Washington County, Tennessee, is still growing at a faster rate than the overall referent region average. Likewise, when IM is negative and RS is positive, the implication is that the regional comparative advantage is sufficiently strong to overcome the slower than average industry growth rate.

Interpreting Different Referent Region Results

The three SSA are conducted relative to three different referent regions: (1) the United States as a whole, (2) the Appalachian Region, and (3) the region defined by the county and its neighboring counties. As such, the IM component indicates the change in industry employment that would have occurred had the industry grown at a rate equal to the difference between the industry-specific growth rate in the referent region and the overall referent-region growth rate. Likewise, the regional shift components, RS, reflect county-specific industry comparative (dis)advantages relative to those same industries in each of the three referent regions. As before, the NS label always refers to county growth that would have occurred had the county industry grown at the overall average rate of growth in the referent region.

Reporting the results for each of three referent regions enables readers to compare county performance to the United States, the Appalachian Region, and the region defined by the county and its neighboring counties. Although economic growth in Appalachia overall and by industry generally lags the rest of the United States, positive SSA components can still be useful for identifying industries that are positive contributors relative to Appalachian Region and to the more localized economy.

Selected SSA Components for Washington County, Tennessee vs the U.S.

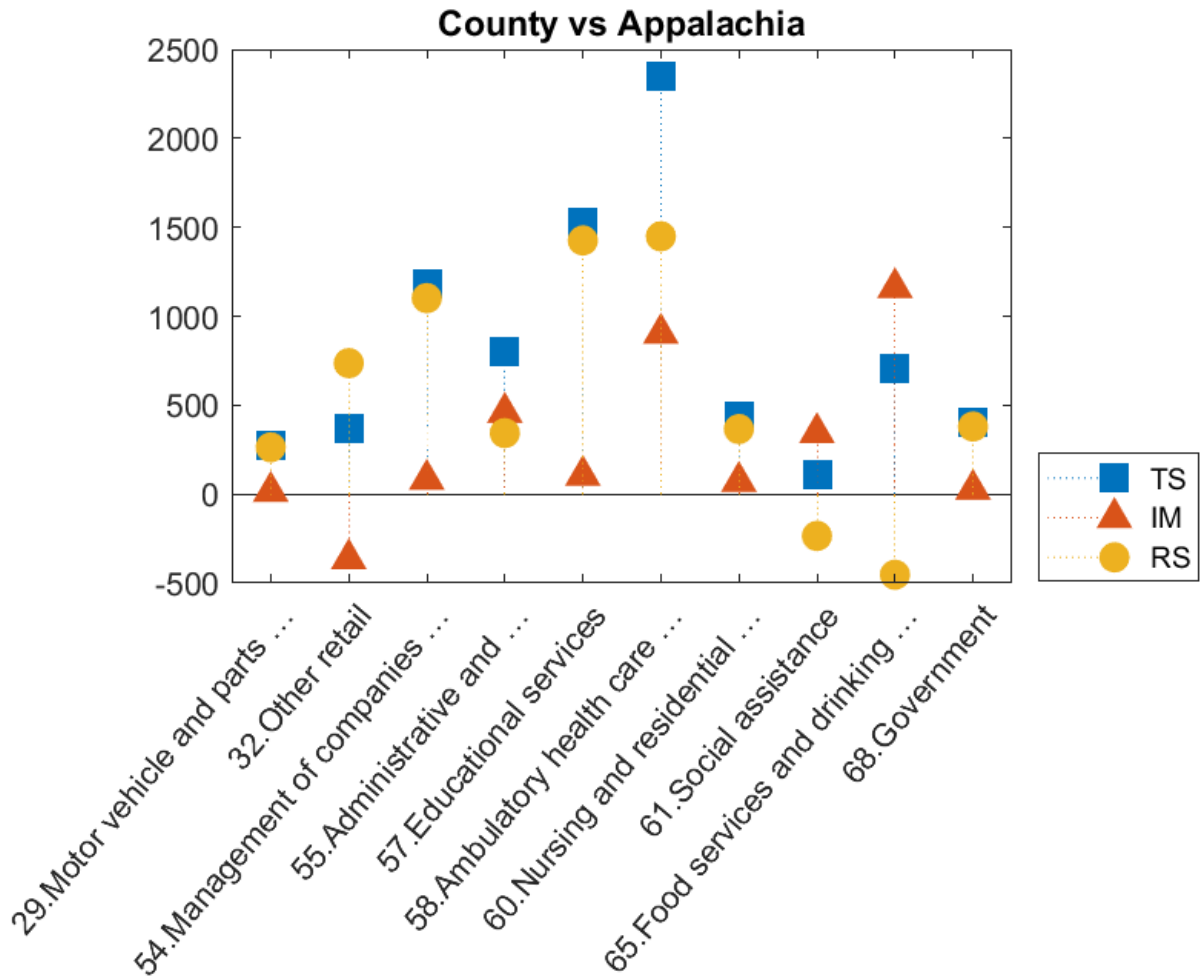


Chapter 51. Washington County, Tennessee

Washington County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|-----|-------|-------|--------|--------------------|
| 29 | Motor vehicle and parts ... | 110 | 172 | -60 | 232 | 1,258 |
| 32 | Other retail | 377 | 7 | -375 | 382 | 3,725 |
| 54 | Management of companies ... | 18 | 1,167 | 38 | 1,129 | 1,346 |
| 55 | Administrative and ... | 380 | 433 | 73 | 360 | 4,184 |
| 57 | Educational services | 544 | 1,003 | -102 | 1,105 | 6,376 |
| 58 | Ambulatory health care ... | 316 | 2,047 | 982 | 1,065 | 5,161 |
| 60 | Nursing and residential ... | 125 | 316 | 49 | 267 | 1,545 |
| 61 | Social assistance | 124 | -11 | 723 | -734 | 1,216 |
| 65 | Food services and drinking ... | 654 | 73 | 1,106 | -1,033 | 6,528 |
| 68 | Government | 232 | 182 | -156 | 338 | 2,472 |

Selected SSA Components for Washington County, Tennessee vs the Appalachian Region

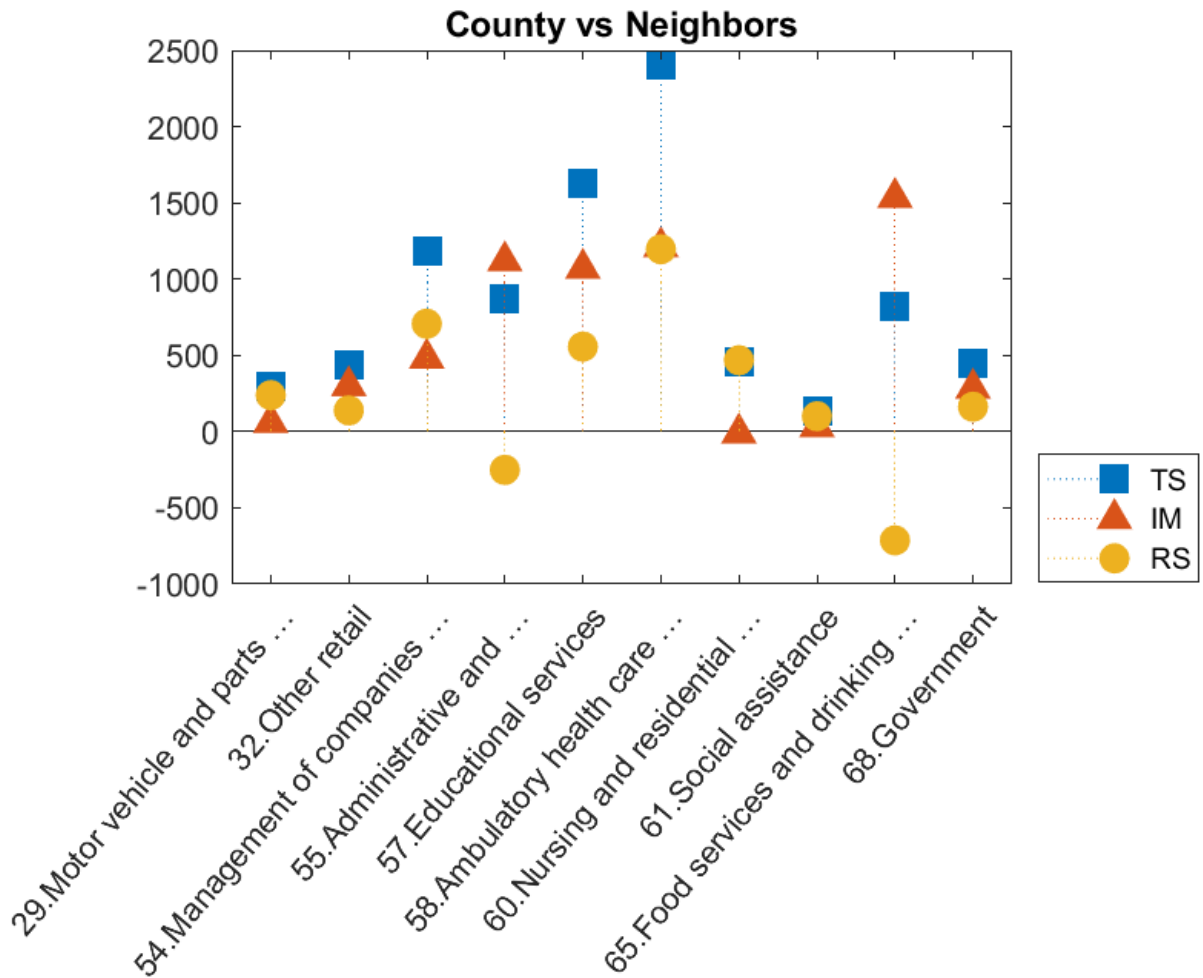


Chapter 51. Washington County, Tennessee

**Selected SSA Components for Washington County, Tennessee vs the
Appalachian Region**

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------------|----|-------|-------|-------|--------------------|
| 29 | Motor vehicle and parts ... | 3 | 278 | 15 | 263 | 1,258 |
| 32 | Other retail | 11 | 372 | -364 | 736 | 3,725 |
| 54 | Management of companies ... | 1 | 1,185 | 83 | 1,102 | 1,346 |
| 55 | Administrative and ... | 11 | 802 | 459 | 343 | 4,184 |
| 57 | Educational services | 16 | 1,531 | 105 | 1,426 | 6,376 |
| 58 | Ambulatory health care ... | 10 | 2,353 | 904 | 1,449 | 5,161 |
| 60 | Nursing and residential ... | 4 | 437 | 71 | 366 | 1,545 |
| 61 | Social assistance | 4 | 110 | 345 | -235 | 1,216 |
| 65 | Food services and drinking ... | 20 | 707 | 1,160 | -453 | 6,528 |
| 68 | Government | 7 | 407 | 27 | 380 | 2,472 |

Selected SSA Components for Washington County, Tennessee vs Neighbors



Chapter 51. Washington County, Tennessee

Selected SSA Components for Washington County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|-----|-------|-------|-------|--------------------|
| 29 | Motor vehicle and parts ... | -16 | 298 | 59 | 239 | 1,258 |
| 32 | Other retail | -55 | 439 | 300 | 139 | 3,725 |
| 54 | Management of companies ... | -3 | 1,188 | 481 | 707 | 1,346 |
| 55 | Administrative and ... | -55 | 868 | 1,119 | -251 | 4,184 |
| 57 | Educational services | -79 | 1,627 | 1,070 | 557 | 6,376 |
| 58 | Ambulatory health care ... | -46 | 2,408 | 1,212 | 1,196 | 5,161 |
| 60 | Nursing and residential ... | -18 | 458 | -10 | 468 | 1,545 |
| 61 | Social assistance | -18 | 132 | 31 | 101 | 1,216 |
| 65 | Food services and drinking ... | -95 | 822 | 1,535 | -713 | 6,528 |
| 68 | Government | -34 | 447 | 284 | 163 | 2,472 |

Chapter 52. White County, Tennessee

Employment in White County, Tennessee, declined from 9,025 in 2005 to 7,128 in 2018, for a change of -1,897, or -21.02%. Readers should compare the employment values in the tables below to total county employment.

The first table shows the referent region share (NS), the Total Share (TS), Industry Mix (IM), and Regional Shift (RS) job values for the county. The summary values shown represent sums of individual industry component values for all county industries. To be clear, the SSA components always refer to the county that is being compared to the referent region, and the NS label always refers to the county growth that would have taken place had it matched overall average growth in the referent region, which can be the United States, the Appalachian Region, or the county and its neighbors. The largest and smallest NS components in the summary table correspond to the fastest and slowest growing referent regions.

Summary Results for White County, Tennessee

| County Summary | NS | TS | IM | RS |
|----------------|-------|--------|------|--------|
| vs. U.S. | 1,018 | -2,915 | -670 | -2,245 |
| vs. Appalachia | 28 | -1,927 | -381 | -1,546 |
| vs. Neighbors | -77 | -1,818 | -220 | -1,598 |

The next table displays the group membership categories for industries belonging to any of the first three categories (signifying a positive total share value) for the Appalachian Region or the county relative to the United States — i.e., A, B, C, I, II, or III — and for the county relative to the Appalachian Region or its neighboring counties — i.e., a, b, c, i, ii, or iii. These are the industries that have passed the first screening step, as they have proven to be positive contributors to either the Appalachian Region in comparison to the United States as a whole, or to White County, Tennessee, in comparison to at least one of the three referent regions.

Chapter 52. White County, Tennessee

Industry Group Membership for White County, Tennessee

| Industry | Name | Group Membership | Type A or B or C | Type I or II or III | Type a or b or c | Type i or ii or iii |
|----------|--------------------------------|------------------|------------------|---------------------|------------------|---------------------|
| 07 | Utilities | F III c iii | no | yes | yes | yes |
| 16 | Motor vehicles, bodies ... | C III a i | yes | yes | yes | yes |
| 17 | Other transportation ... | F III c iii | no | yes | yes | yes |
| 27 | Plastics and rubber prod... | D III a iii | no | yes | yes | yes |
| 28 | Wholesale trade | F III c i | no | yes | yes | yes |
| 29 | Motor vehicle and parts ... | F III a i | no | yes | yes | yes |
| 40 | Warehousing and storage | E I a iii | no | yes | yes | yes |
| 45 | Federal Reserve banks, ... | F III c i | no | yes | yes | yes |
| 55 | Administrative and ... | A I a i | yes | yes | yes | yes |
| 58 | Ambulatory health care ... | B I a i | yes | yes | yes | yes |
| 59 | Hospitals | E I a i | no | yes | yes | yes |
| 60 | Nursing and residential ... | E I a iii | no | yes | yes | yes |
| 61 | Social assistance | B II b iii | yes | yes | yes | yes |
| 65 | Food services and drinking ... | B II a ii | yes | yes | yes | yes |
| 66 | Other services, exc. gov ... | F III c i | no | yes | yes | yes |

Notes:

Groups A, B, and C are from Appalachia vs. the United States

Groups I, II, and III are from White County, Tennessee vs. the United States

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Industry-Specific Results

Below we report the results for the three shift-share analyses comparing White County, Tennessee, to each of three referent regions: the United States as a whole, the Appalachian Region, and the region defined by White County, Tennessee, and its neighboring counties. The results for each of the three analyses are presented both visually and in tabular form.

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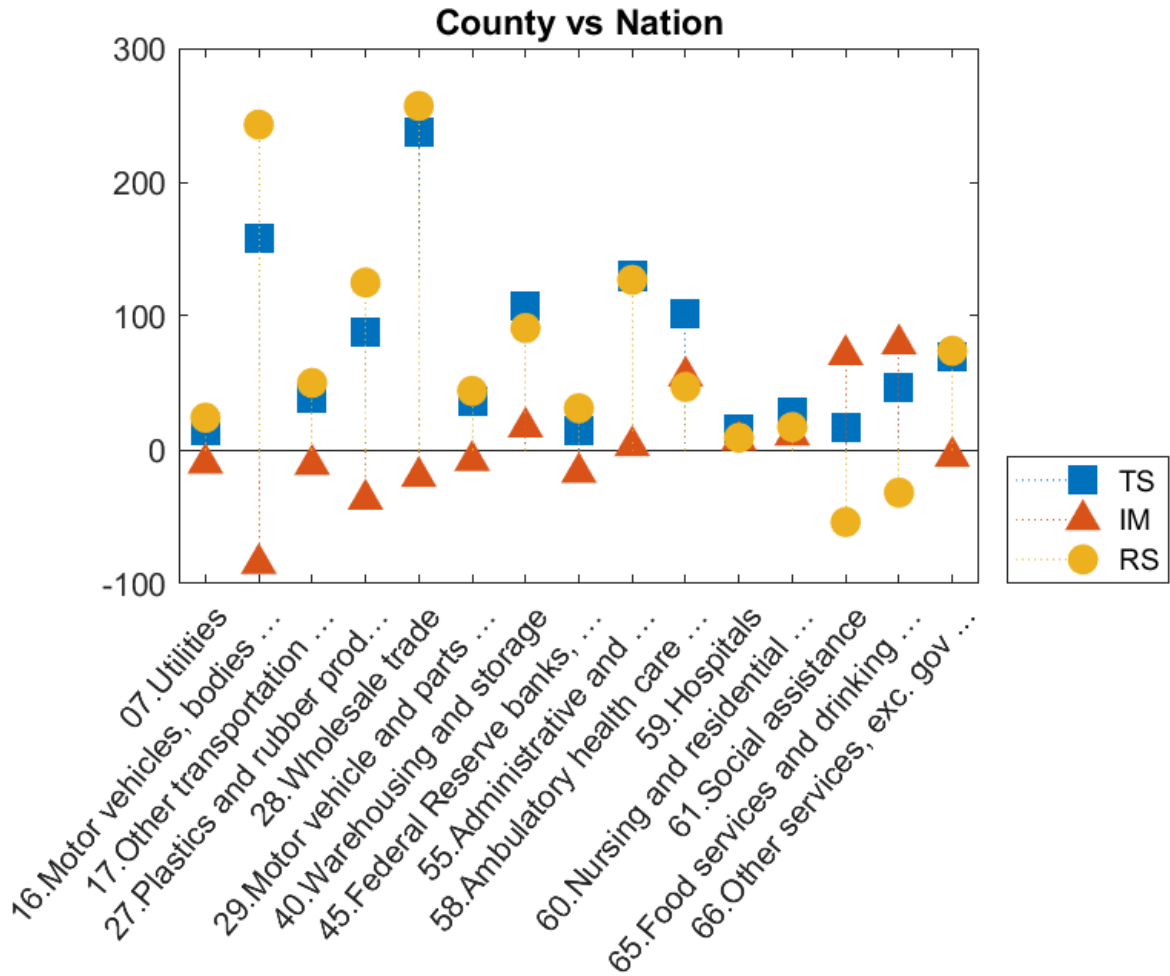
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Interpreting Different Referent Region Results

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Selected SSA Components for White County, Tennessee vs the U.S.

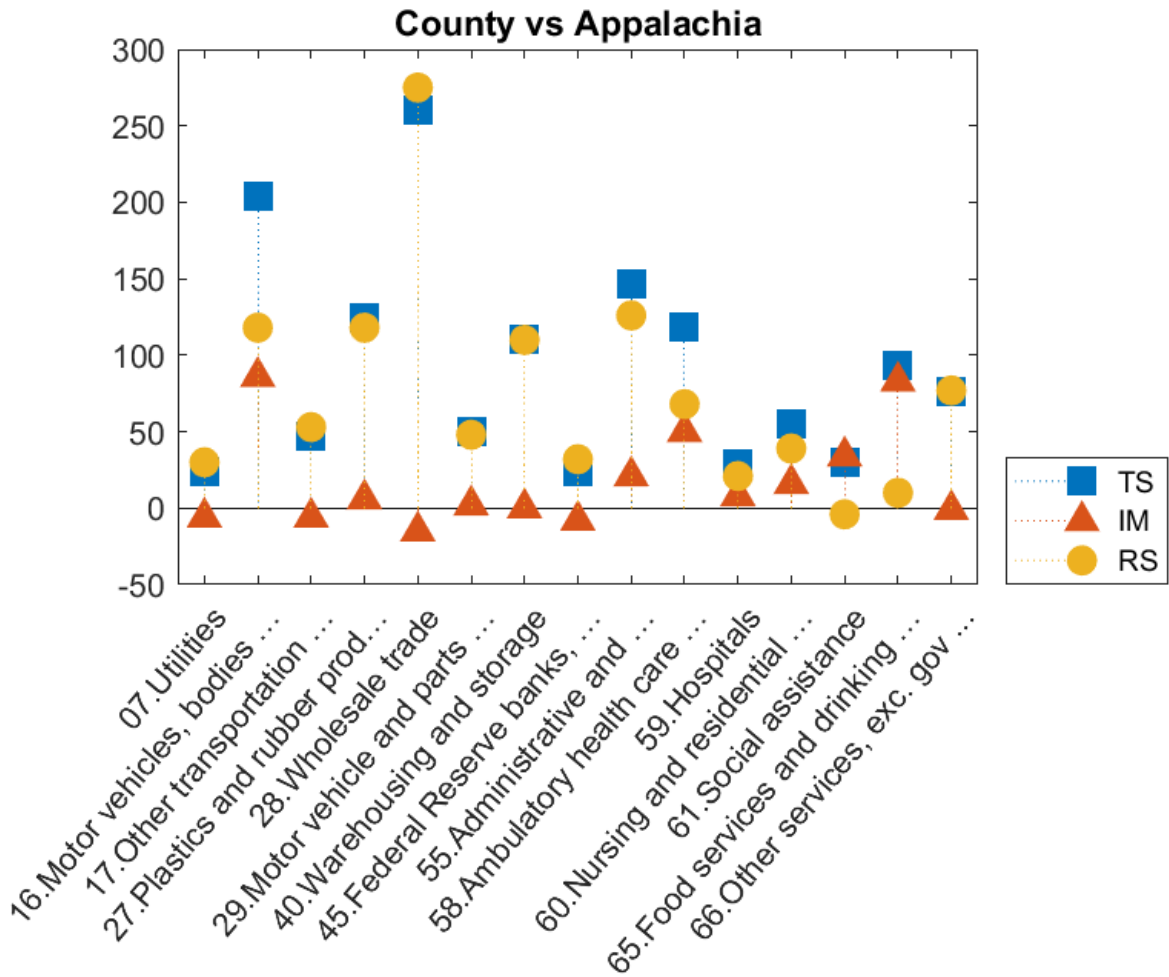


Chapter 52. White County, Tennessee

White County, Tennessee vs U.S. for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 07 | Utilities | 11 | 14 | -10 | 24 | 121 |
| 16 | Motor vehicles, bodies ... | 48 | 158 | -85 | 243 | 627 |
| 17 | Other transportation ... | 8 | 39 | -11 | 50 | 114 |
| 27 | Plastics and rubber prod... | 38 | 88 | -37 | 125 | 464 |
| 28 | Wholesale trade | 24 | 237 | -20 | 257 | 470 |
| 29 | Motor vehicle and parts ... | 15 | 36 | -8 | 44 | 184 |
| 40 | Warehousing and storage | 2 | 108 | 17 | 91 | 131 |
| 45 | Federal Reserve banks, ... | 10 | 14 | -17 | 31 | 113 |
| 55 | Administrative and ... | 17 | 130 | 3 | 127 | 298 |
| 58 | Ambulatory health care ... | 18 | 102 | 55 | 47 | 275 |
| 59 | Hospitals | 14 | 16 | 7 | 9 | 155 |
| 60 | Nursing and residential ... | 29 | 28 | 11 | 17 | 311 |
| 61 | Social assistance | 12 | 17 | 71 | -54 | 139 |
| 65 | Food services and drinking ... | 47 | 47 | 79 | -32 | 510 |
| 66 | Other services, exc. gov ... | 8 | 69 | -5 | 74 | 145 |

Selected SSA Components for White County, Tennessee vs the Appalachian Region

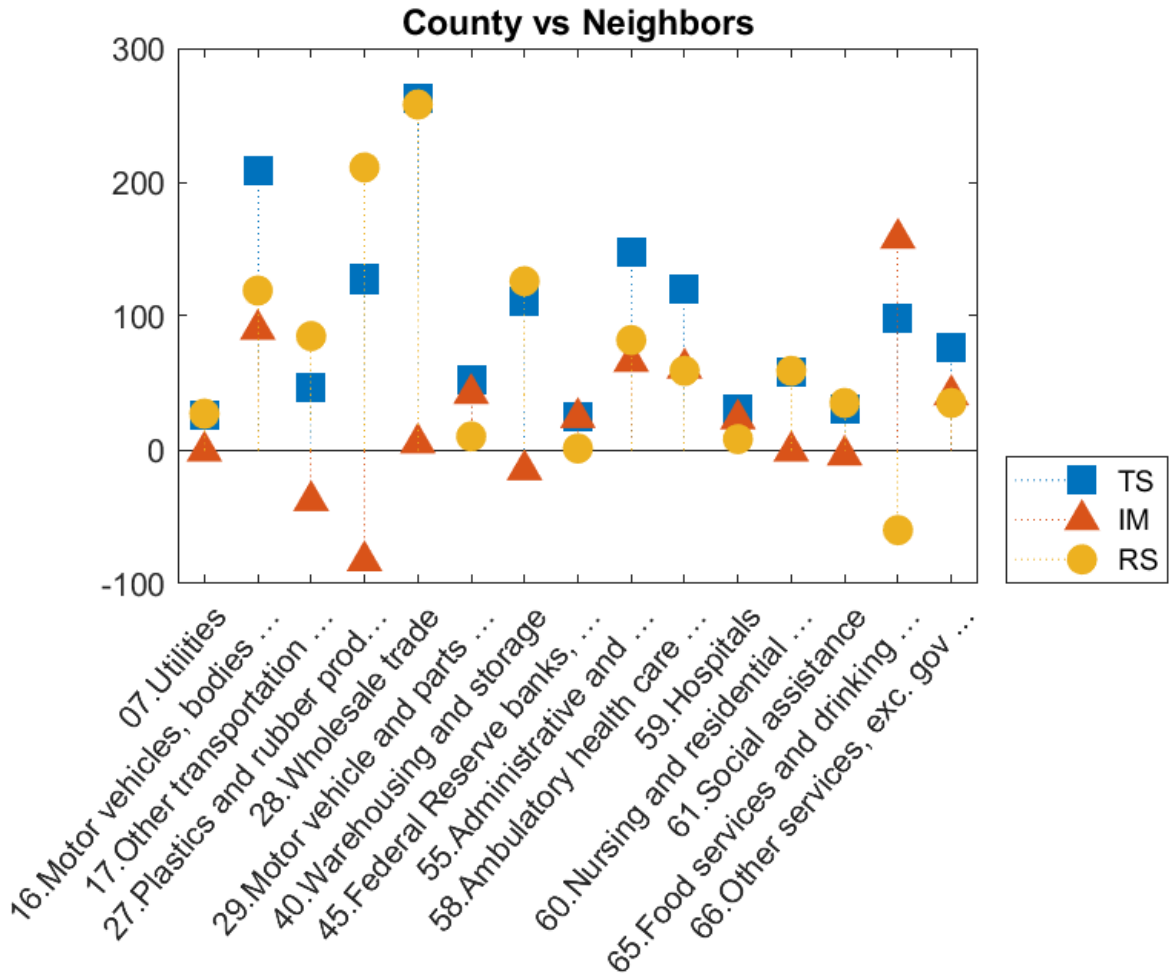


Chapter 52. White County, Tennessee

Selected SSA Components for White County, Tennessee vs the Appalachian Region

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 07 | Utilities | 0 | 24 | -6 | 30 | 121 |
| 16 | Motor vehicles, bodies ... | 1 | 204 | 86 | 118 | 627 |
| 17 | Other transportation ... | 0 | 47 | -6 | 53 | 114 |
| 27 | Plastics and rubber prod... | 1 | 124 | 6 | 118 | 464 |
| 28 | Wholesale trade | 1 | 260 | -15 | 275 | 470 |
| 29 | Motor vehicle and parts ... | 0 | 50 | 2 | 48 | 184 |
| 40 | Warehousing and storage | 0 | 110 | 0 | 110 | 131 |
| 45 | Federal Reserve banks, ... | 0 | 24 | -8 | 32 | 113 |
| 55 | Administrative and ... | 1 | 147 | 21 | 126 | 298 |
| 58 | Ambulatory health care ... | 1 | 118 | 50 | 68 | 275 |
| 59 | Hospitals | 0 | 29 | 8 | 21 | 155 |
| 60 | Nursing and residential ... | 1 | 55 | 16 | 39 | 311 |
| 61 | Social assistance | 0 | 30 | 34 | -4 | 139 |
| 65 | Food services and drinking ... | 1 | 93 | 83 | 10 | 510 |
| 66 | Other services, exc. gov ... | 0 | 76 | -1 | 77 | 145 |

Selected SSA Components for White County, Tennessee vs Neighbors



Chapter 52. White County, Tennessee

Selected SSA Components for White County, Tennessee vs Neighbors for Selected Industries

| Industry | Name | NS | TS | IM | RS | Employment 2018 |
|----------|--------------------------------|----|-----|-----|-----|--------------------|
| 07 | Utilities | -1 | 26 | -1 | 27 | 121 |
| 16 | Motor vehicles, bodies ... | -4 | 209 | 90 | 119 | 627 |
| 17 | Other transportation ... | -1 | 47 | -38 | 85 | 114 |
| 27 | Plastics and rubber prod... | -3 | 128 | -83 | 211 | 464 |
| 28 | Wholesale trade | -2 | 263 | 5 | 258 | 470 |
| 29 | Motor vehicle and parts ... | -1 | 52 | 42 | 10 | 184 |
| 40 | Warehousing and storage | -0 | 111 | -15 | 126 | 131 |
| 45 | Federal Reserve banks, ... | -1 | 25 | 24 | 1 | 113 |
| 55 | Administrative and ... | -1 | 148 | 66 | 82 | 298 |
| 58 | Ambulatory health care ... | -1 | 120 | 61 | 59 | 275 |
| 59 | Hospitals | -1 | 31 | 23 | 8 | 155 |
| 60 | Nursing and residential ... | -2 | 58 | -1 | 59 | 311 |
| 61 | Social assistance | -1 | 31 | -4 | 35 | 139 |
| 65 | Food services and drinking ... | -4 | 98 | 158 | -60 | 510 |
| 66 | Other services, exc. gov ... | -1 | 76 | 41 | 35 | 145 |