

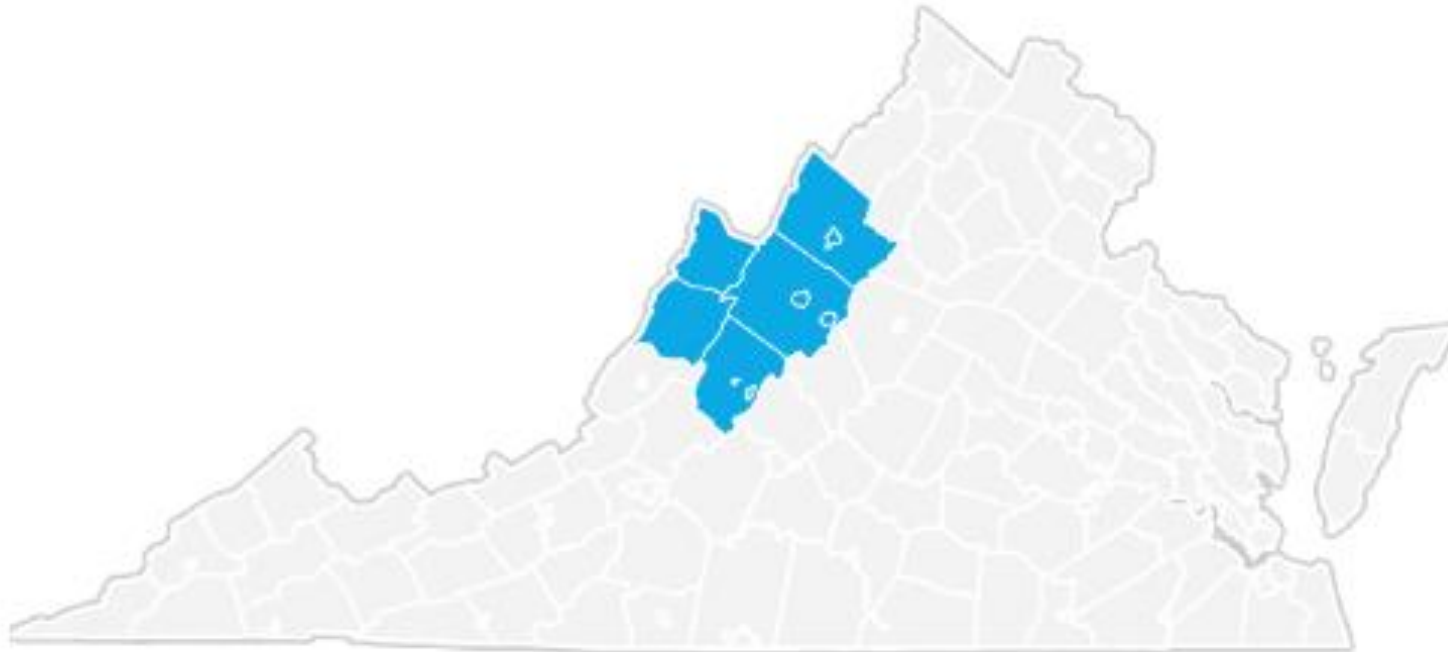


CHMURA

Pandemic Impact Data

- **Impact in the CSPDC Region**
- **Recovery Path**

CSPDC Region Definition



Augusta County
Bath County
Highland County
Rockbridge County
Rockingham County
Buena Vista City
Harrisonburg City
Lexington City
Staunton City
Waynesboro City

Impact Summary April - June 2020: 10.7% of Workforce Lost

| | Q2 Job Change | Q2 GDP Impact (\$Million) |
|--|----------------|---------------------------|
| Accommodation and Food Services | -6,699 | -\$72.3 |
| Educational Services | -1,415 | -\$23.8 |
| Retail Trade | -1,411 | -\$16.8 |
| Health Care and Social Assistance | -1,044 | -\$16.6 |
| Construction | -942 | -\$18.6 |
| Other Services (except Public Administration) | -756 | -\$8.4 |
| Manufacturing | -710 | -\$54.0 |
| Arts, Entertainment, and Recreation | -622 | -\$8.6 |
| Administrative and Support and Waste Management and Remediation Services | -382 | -\$5.4 |
| Wholesale Trade | -272 | -\$8.8 |
| Real Estate and Rental and Leasing | -258 | -\$64.4 |
| Professional, Scientific, and Technical Services | -231 | -\$5.1 |
| Transportation and Warehousing | -200 | -\$6.0 |
| Information | -174 | -\$3.9 |
| Public Administration | -105 | -\$2.0 |
| Finance and Insurance | -103 | -\$2.9 |
| Management of Companies and Enterprises | -90 | -\$1.9 |
| Utilities | -62 | -\$5.0 |
| Mining, Quarrying, and Oil and Gas Extraction | 0 | \$0.1 |
| Unclassified | 16 | \$0.4 |
| Agriculture, Forestry, Fishing and Hunting | 367 | \$8.9 |
| Total | -15,092 | -\$315.0 |

Impact Summary 2020

Mixed Initial Recovery by Industry

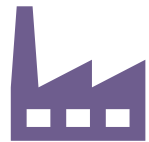
| | Q2 Job Change | Q3 Job Change | Q4 Job Change |
|--|-----------------|---------------|---------------|
| Accommodation and Food Services | -6,699 | 3,082 | 1,518 |
| Educational Services | -1,415 | -665 | -11 |
| Retail Trade | -1,411 | 816 | 213 |
| Health Care and Social Assistance | -1,044 | 161 | 120 |
| Construction | -942 | 10 | 238 |
| Other Services (except Public Administration) | -756 | 413 | 157 |
| Manufacturing | -710 | -9 | 470 |
| Arts, Entertainment, and Recreation | -622 | 74 | 208 |
| Administrative and Support and Waste Management and Remediation Services | -382 | 347 | -27 |
| Wholesale Trade | -272 | -125 | 56 |
| Real Estate and Rental and Leasing | -258 | 33 | 20 |
| Professional, Scientific, and Technical Services | -231 | 27 | 26 |
| Transportation and Warehousing | -200 | 145 | -139 |
| Information | -174 | 7 | -9 |
| Public Administration | -105 | 286 | -206 |
| Finance and Insurance | -103 | -39 | 6 |
| Management of Companies and Enterprises | -90 | -38 | -3 |
| Utilities | -62 | -4 | 11 |
| Mining, Quarrying, and Oil and Gas Extraction | 0 | -1 | 3 |
| Unclassified | 16 | 40 | -60 |
| Agriculture, Forestry, Fishing and Hunting | 367 | -99 | 100 |
| Total | -15,092 | 4,462 | 2,693 |
| GDP Impact (\$Millions) | -\$315.0 | \$58.2 | \$38.7 |

Change in Number of Businesses (Establishments)

Other Services includes personal care and private household employment

| | 2019 Q4 | 2020 Q1 | 2020 Q2 | 2020 Q3 | Net Change, 2019Q4 to 2020Q3 |
|--|--------------|--------------|--------------|--------------|---------------------------------|
| Other Services (except Public Administration) | 857 | 813 | 808 | 808 | -49 |
| Transportation and Warehousing | 344 | 323 | 316 | 316 | -28 |
| Wholesale Trade | 292 | 281 | 276 | 275 | -17 |
| Finance and Insurance | 389 | 383 | 384 | 382 | -7 |
| Manufacturing | 346 | 341 | 342 | 339 | -7 |
| Agriculture, Forestry, Fishing and Hunting | 142 | 138 | 138 | 138 | -4 |
| Accommodation and Food Services | 659 | 668 | 652 | 656 | -3 |
| Administrative and Support and Waste Management and Remediation Services | 350 | 349 | 346 | 347 | -3 |
| Public Administration | 244 | 245 | 245 | 243 | -1 |
| Arts, Entertainment, and Recreation | 106 | 106 | 108 | 107 | 1 |
| Mining, Quarrying, and Oil and Gas Extraction | 10 | 11 | 11 | 11 | 1 |
| Professional, Scientific, and Technical Services | 549 | 552 | 549 | 550 | 1 |
| Utilities | 31 | 31 | 32 | 32 | 1 |
| Educational Services | 105 | 106 | 107 | 108 | 3 |
| Management of Companies and Enterprises | 43 | 43 | 45 | 46 | 3 |
| Real Estate and Rental and Leasing | 283 | 289 | 287 | 287 | 4 |
| Information | 97 | 107 | 103 | 102 | 5 |
| Retail Trade | 1,003 | 1,007 | 1,007 | 1,008 | 5 |
| Construction | 859 | 859 | 860 | 869 | 10 |
| Unclassified | 110 | 124 | 136 | 146 | 36 |
| Health Care and Social Assistance | 1,546 | 1,550 | 1,589 | 1,604 | 58 |
| Total | 8,365 | 8,326 | 8,341 | 8,374 | 9 |

Industry Impacts by Cluster



Manufacturing

Change in
Jobs 2020Q2

-710

% of Pre-
Pandemic
Workforce
Change

-3.4%

Industries Impacted the Most by COVID-19,
Employment Change 2020Q2

- Motor Vehicle Parts (-174)
- Other Food Manufacturing (-160)
- Animal Slaughtering and Processing (-146)
- Printing and Related (-124)



Agriculture

+367

+7.8%

- Greenhouse, Nursery, and Floriculture (-51)
- Support Activities for Forestry (-8)
- Support Activities for Animal Production (-7)
- Logging (-4)



Tourism

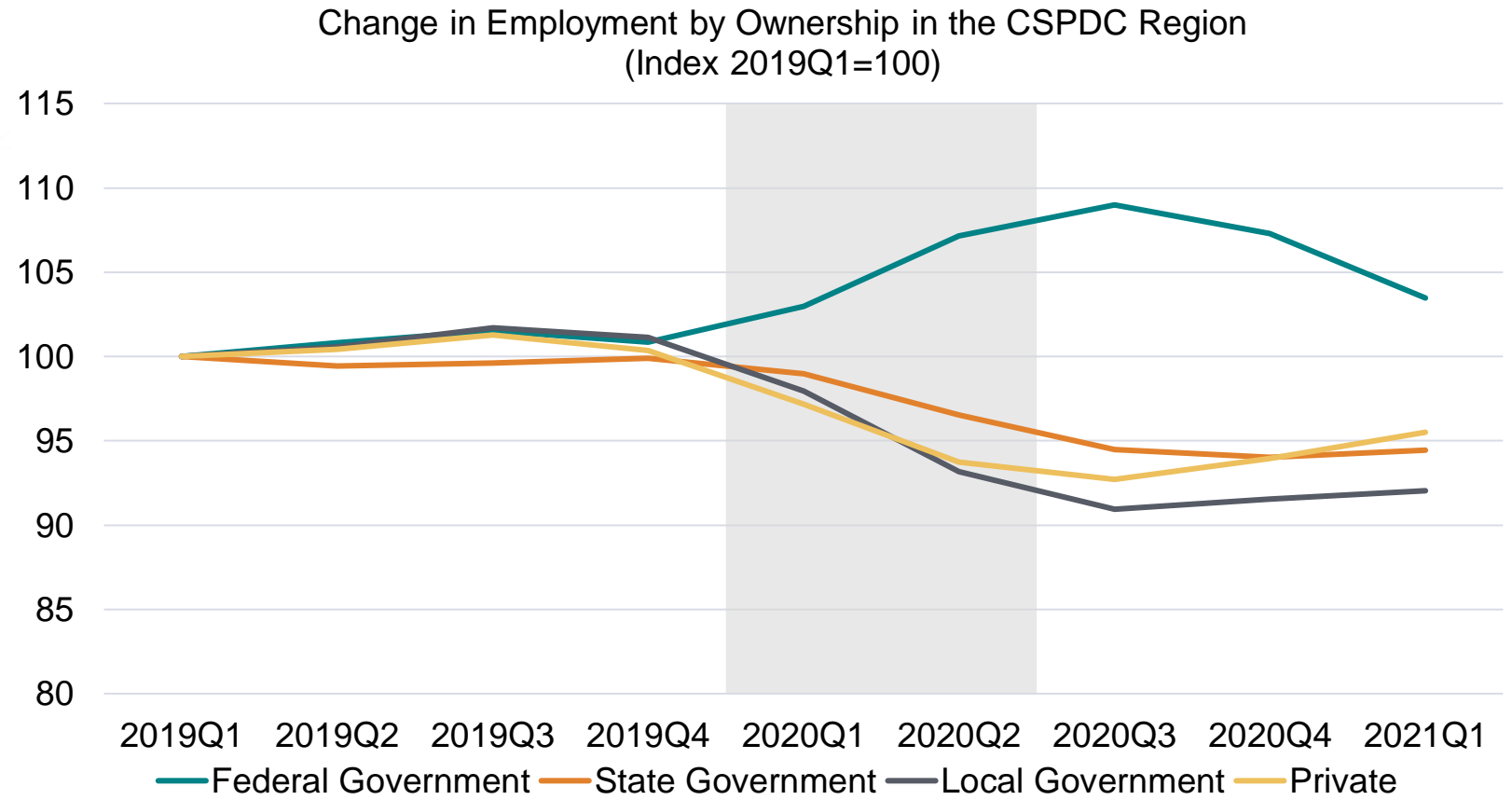
-7,641

-39.1%

- Restaurants (-3,938)
- Traveler Accommodation (-1,929)
- Special Food Services (-749)
- Other Amusement and Recreation (-230)

Government Employment Impacts

- Federal and state employment grew and declined slower than private sector
- Local government employment hit hardest, lost 9% (1,200 jobs) by 2020Q3
- Local and state government employment lagging private sector recovery



Source: Chmura
Shaded bars indicate recessions

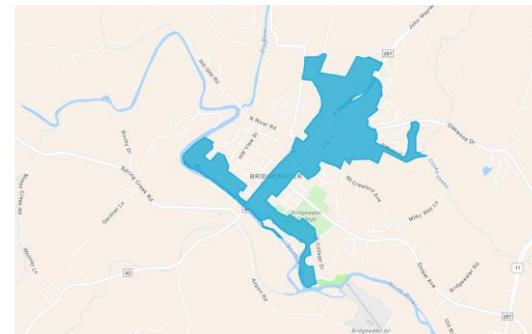
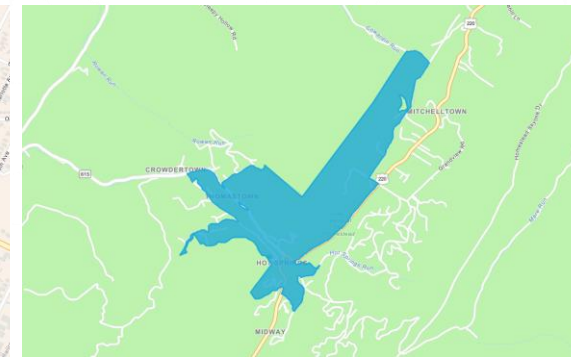
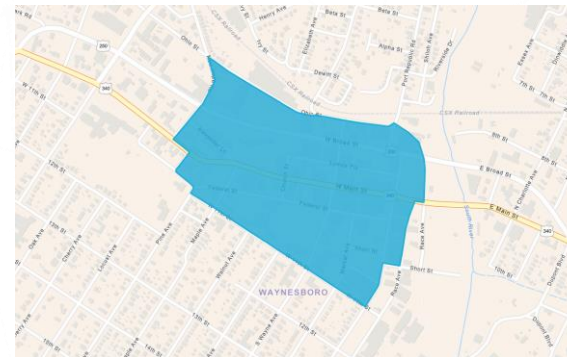
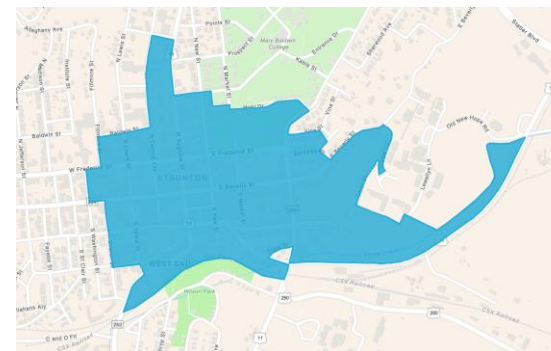
Impact on Small Businesses

More Severe, but Relatively Fewer Small Businesses

- In 2020Q1, there were an estimated 6,396 small business establishments in the CSPDC region
- Small businesses employed 41,865 workers (29.7% of all jobs)
 - vs. 41.7% of all jobs in the state
- In 2020Q2, Chmura estimates 5,007 small business jobs lost
- Representing a loss of 12.0% of all regional small business jobs
 - vs. 10.7% overall losses for the region

Downtown Areas Defined

- Buena Vista
- Harrisonburg
- Lexington
- Staunton
- Waynesboro
- Hot Springs
- Bridgewater
- Broadway
- Monterey



Impact on Downtown Areas

Food, retail, offices impacted by stay-at-home/ remote work

| | Q2 Job Change | Q3 Job Change | Q4 Job Change |
|--|---------------|---------------|---------------|
| Accommodation and Food Services | -1,146 | 702 | 230 |
| Educational Services | -237 | -166 | 161 |
| Information | -97 | 13 | -3 |
| Retail Trade | -66 | 40 | 26 |
| Management of Companies and Enterprises | -57 | -2 | -1 |
| Other Services (except Public Administration) | -53 | 36 | 11 |
| Professional, Scientific, and Technical Services | -50 | -4 | 9 |
| Transportation and Warehousing | -45 | 28 | -23 |
| Manufacturing | -31 | -4 | 12 |
| Arts, Entertainment, and Recreation | -30 | 23 | 3 |
| Health Care and Social Assistance | -30 | 15 | -3 |
| Public Administration | -27 | 49 | 15 |
| Construction | -24 | 6 | 1 |
| Real Estate and Rental and Leasing | -19 | 7 | 4 |
| Finance and Insurance | -14 | -6 | 1 |
| Administrative and Support and Waste Management and Remediation Services | -9 | -1 | -2 |
| Agriculture, Forestry, Fishing and Hunting | -4 | 2 | 1 |
| Wholesale Trade | -4 | -3 | 1 |
| Utilities | 0 | 1 | 0 |
| Mining, Quarrying, and Oil and Gas Extraction | 0 | 0 | 0 |
| Unclassified | 1 | 2 | -5 |
| Total | -1,941 | 737 | 438 |

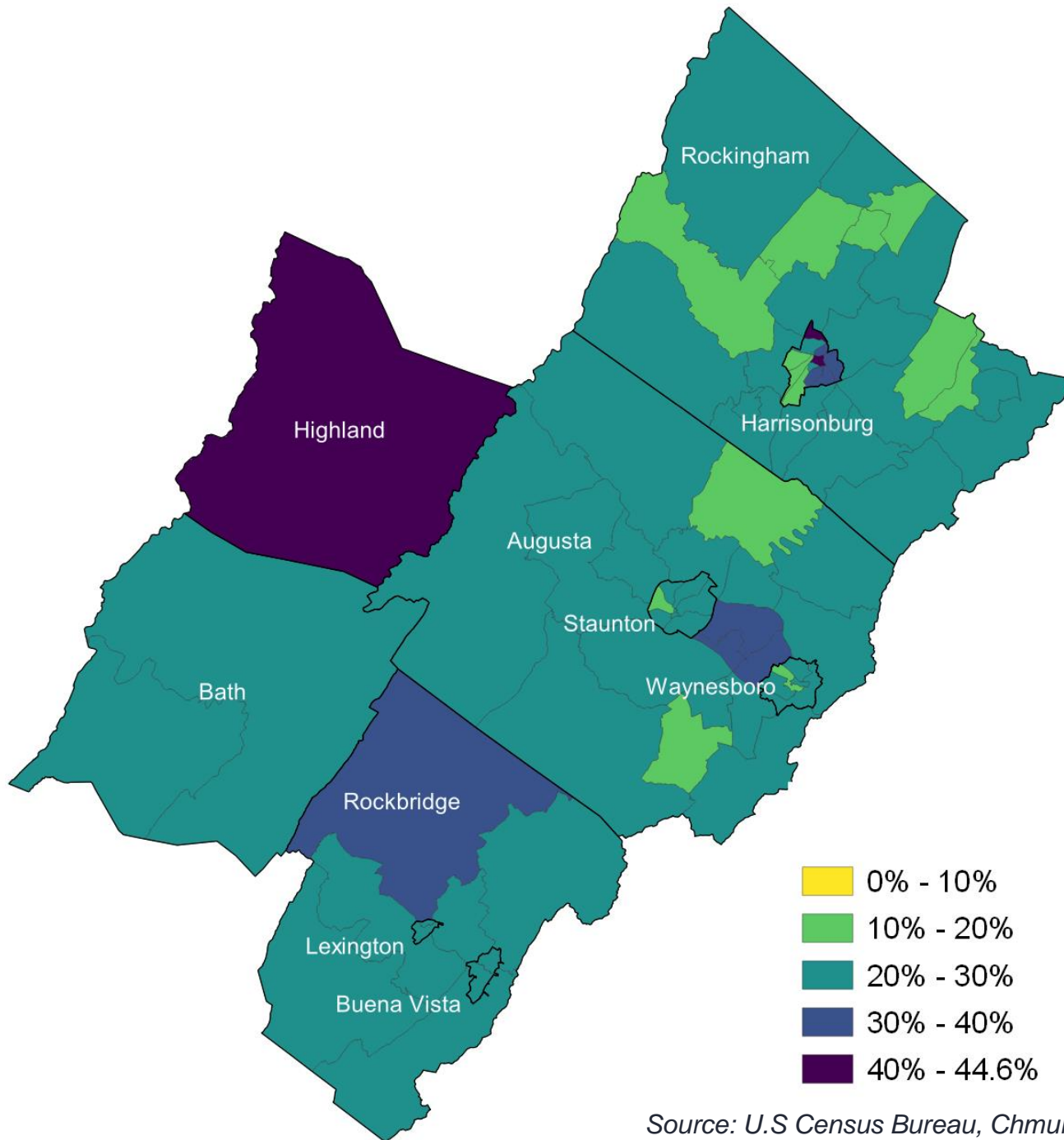
Summary Pandemic Impacts

- Region lost 10.7% of total workforce April-June 2020
- Impacts by cluster:
 - Manufacturing -3.4%
 - Tourism -39.1%
- Local government lost 9% by 2020Q3, recovering more slowly than private sector
- 12.0% of jobs in small businesses lost
- 14.4% of jobs in downtown areas lost

Pandemic Resiliency

Population with 3+ Risk Factors:

- Income-to-poverty ratio
- Single or zero-caregiver household
- Crowding/high-density residence
- Communication barrier
- No full-time employed person in household
- Disability
- No health insurance
- Age 65 or older
- Serious heart condition
- Diabetes
- Emphysema or asthma

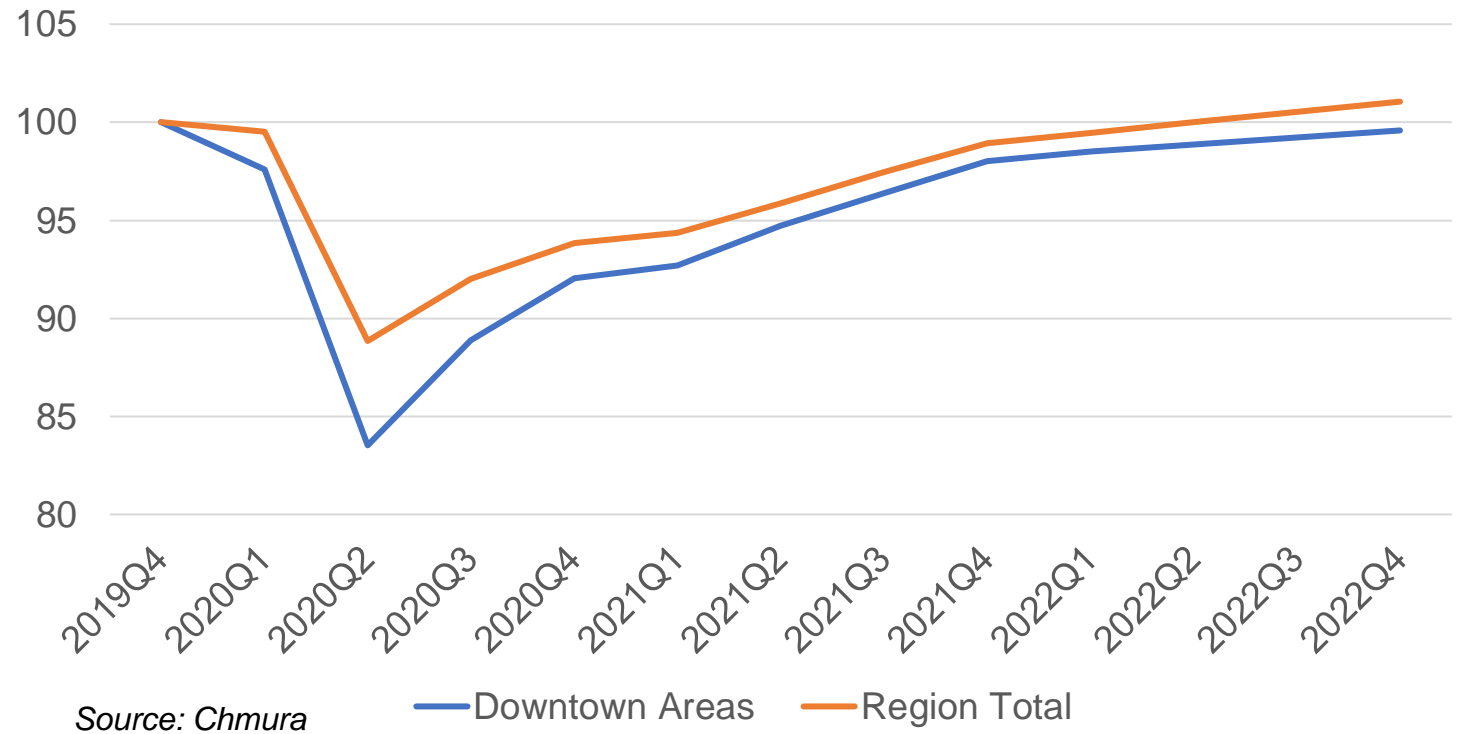


Source: U.S Census Bureau, Chmura

Regional Recovery Path

- Accommodation and food services and retail lead recovery in third quarter 2020
- Recovered 44.7% of lost jobs by fourth quarter 2020
- Vaccine availability and federal relief boost recovery in 2021
- Mid-year 2021, region projected to recovery 62.9% of lost jobs
- Recovery is slightly slower than national average due to industry mix
- Region expected to recover all jobs lost during the pandemic by second quarter 2022
- Downtown areas recover more slowly, by mid 2023

CSPDC Regional Recovery Path
(Index 2019Q4=100)





Questions?

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