

Washington State Employment Estimates and Forecasts for Transportation Investment Planning

Connect Washington Task Force
October 4, 2011

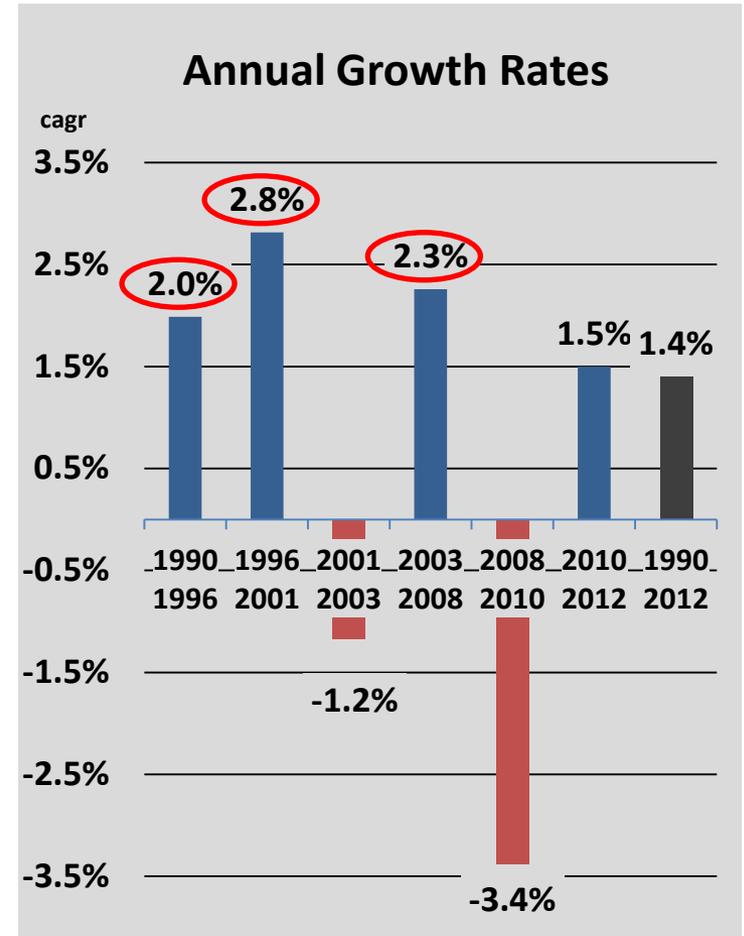
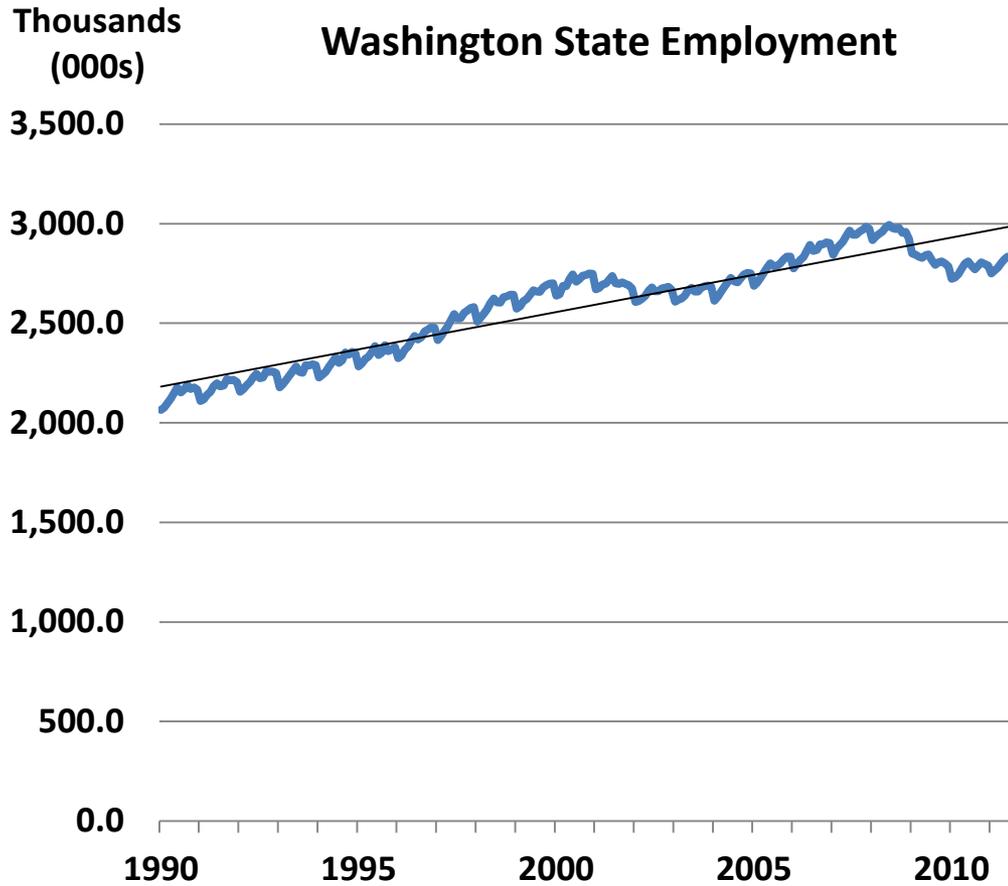
Chris Mefford, President & CEO
Community Attributes Int'l
Seattle, Washington



Contents

| | |
|---|-------------------------|
| Context: Statewide Employment Trends and Outlook | Data charts |
| Regional Economic Drivers, Industry Employment and Transportation Needs | Discussion, Data charts |
| County Growth and County Sectors | Data, maps |
| Conclusions | Conclusions |

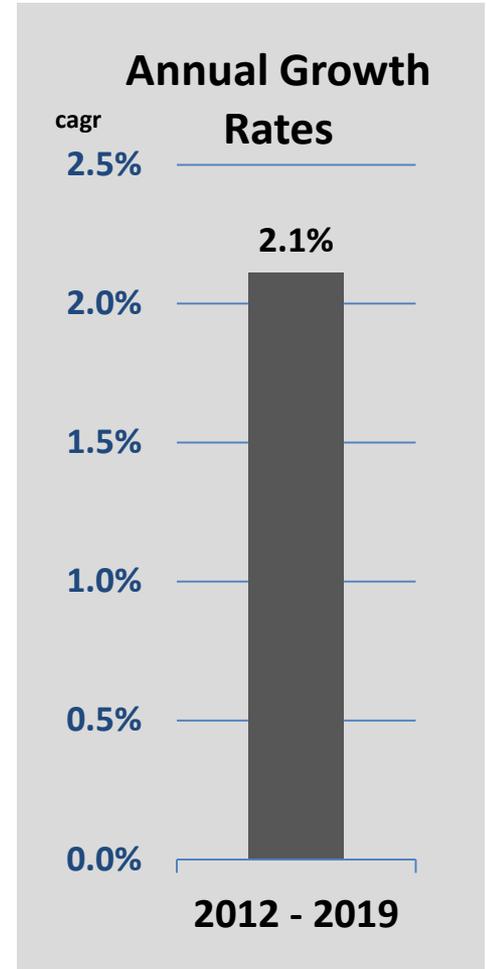
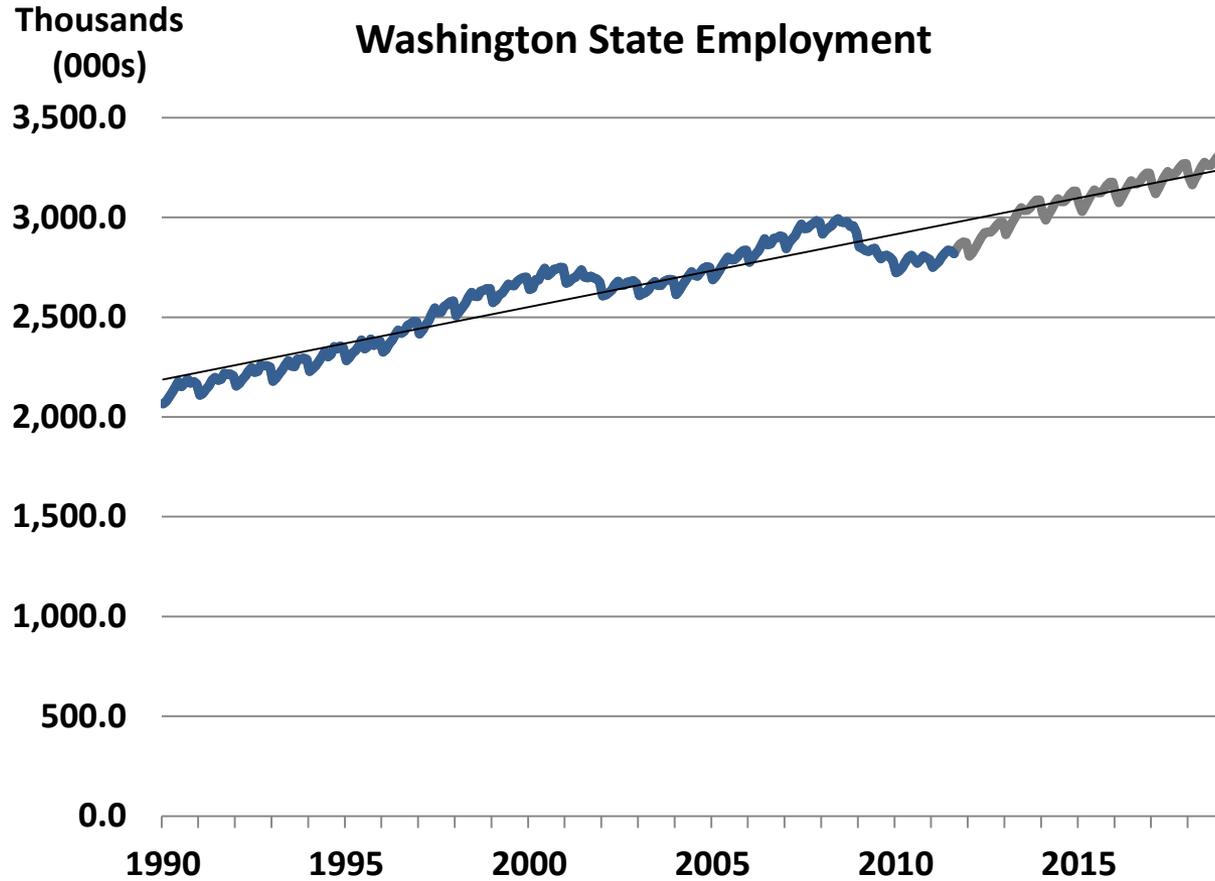
Statewide Employment, 1990 to 2011



Source: Washington State Employment Security Dept.; U.S. Bureau of Labor Statistics

Non-Farm Employment

Statewide Employment, 1990 to 2019



Source: Washington State Employment Security Dept.

Non-Farm Employment

October 4, 2011

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Contents

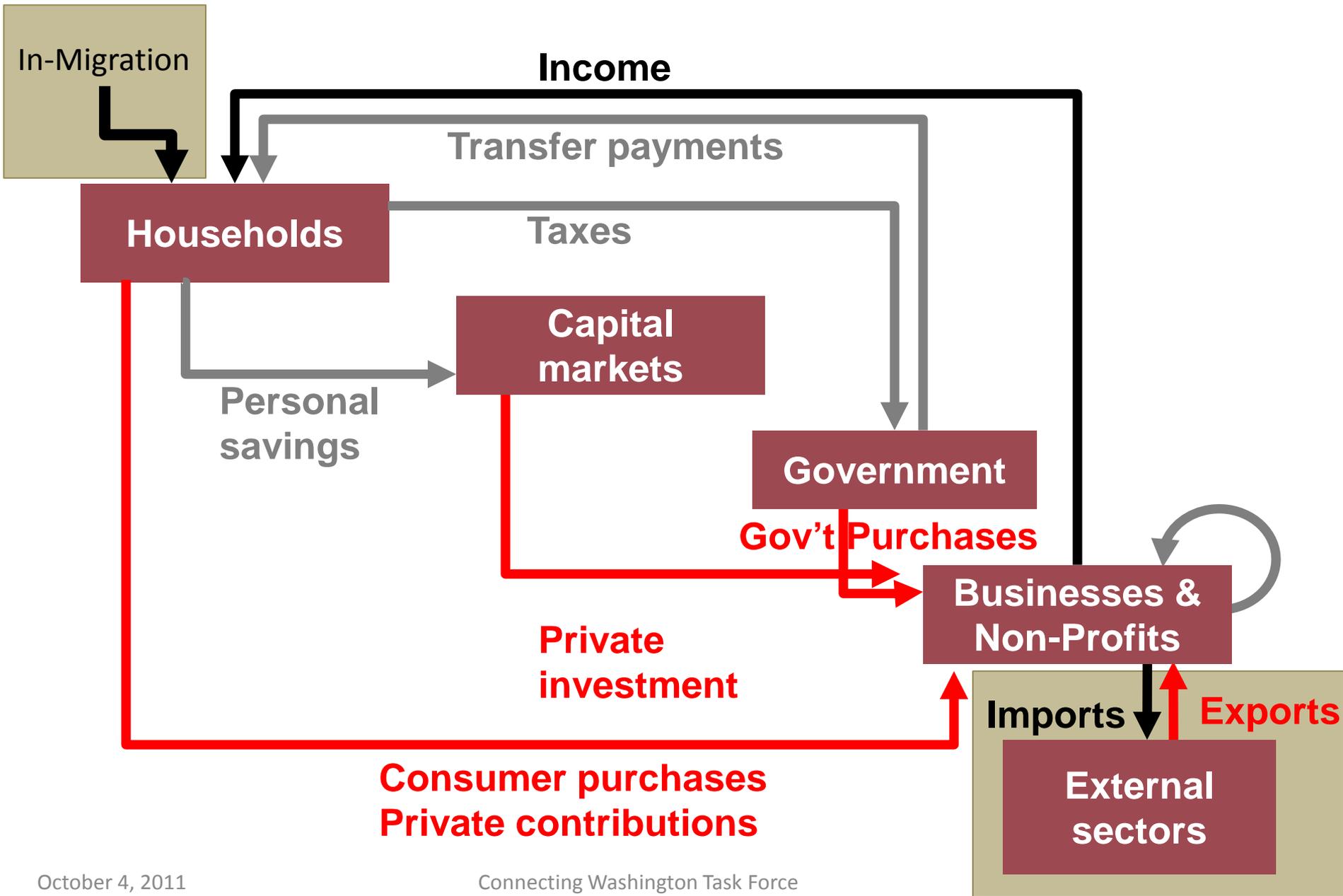
| | |
|--|-------------|
| Context: Statewide Employment Trends and Outlook | Data charts |
|--|-------------|

| | |
|---|-------------------------|
| Regional Economic Drivers, Industry Employment and Transportation Needs | Discussion, Data charts |
|---|-------------------------|

| | |
|----------------------------------|------------|
| County Growth and County Sectors | Data, maps |
|----------------------------------|------------|

| | |
|-------------|-------------|
| Conclusions | Conclusions |
|-------------|-------------|

Regional Economy Circular Flow



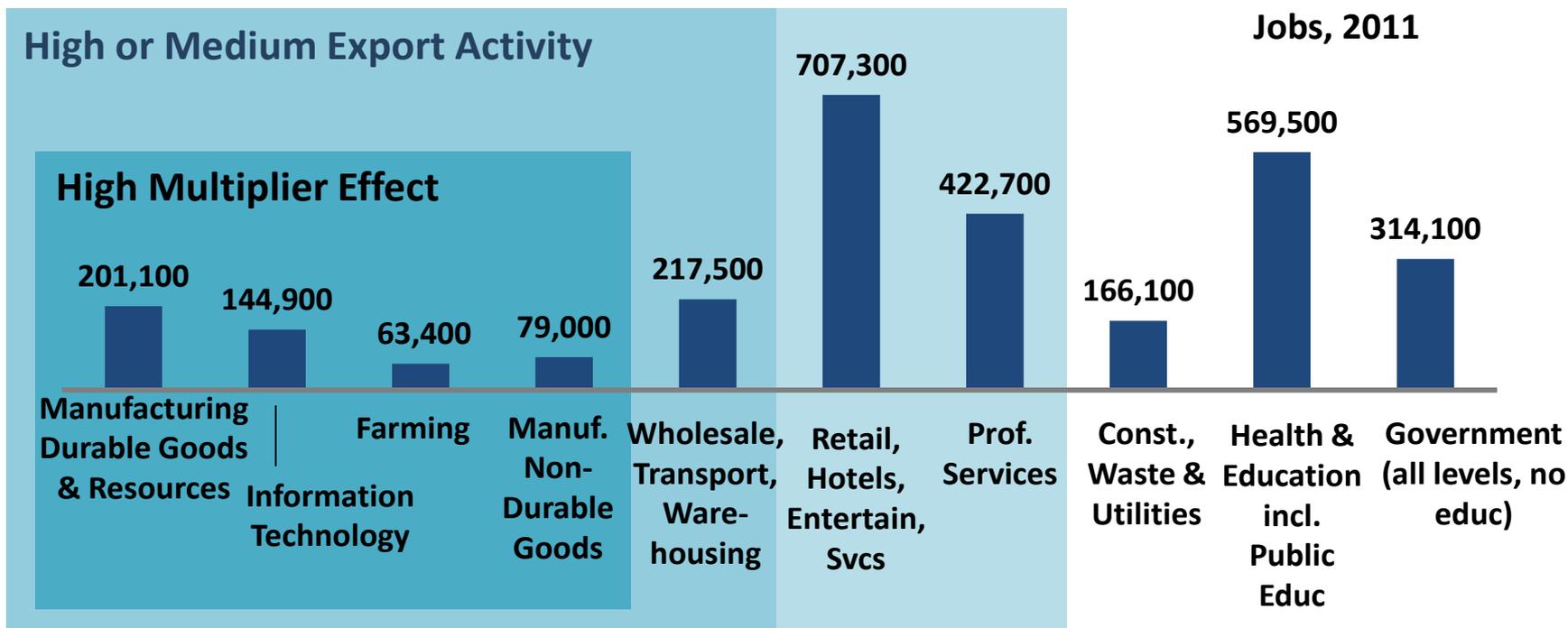
Where transportation investments can make a difference

| Imports, Exports and Intra-regional Distribution | Workers, Talent, Families |
|---|--|
| Transport / Transmission / Delivery Speed | Quality of Life (Access & Mobility) |
| Access to Skilled Labor and Talent | Cost of Living (Access & Mobility) |
| Energy and Fuel | Energy and Fuel |

Employment data must be re-grouped to align with investment choices

| Nonfarm Employment in Washington State | | | | | | | |
|--|------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|
| Not Seasonally Adjusted/*Updated with ***QCEW Data: March 2011 | | | | | | | |
| **NAICS Industry Title | Prelim Aug-11 | Revised Jul-11 | Revised Aug-10 | Revised Jul-10 | Change | | |
| | | | | | Jul-11 Aug-11 | Aug-10 Aug-11 | Jul-10 Aug-10 |
| Total Nonfarm ¹ | 2,822,200 | 2,835,200 | 2,775,700 | 2,794,300 | -13,000 | 46,500 | -18,600 |
| Total Private | 2,313,700 | 2,308,400 | 2,260,600 | 2,258,900 | 5,300 | 53,100 | 1,700 |
| Goods Producing | 430,000 | 422,900 | 416,800 | 415,000 | 7,100 | 13,200 | 1,800 |
| Mining and Logging | 6,400 | 6,300 | 6,300 | 6,300 | 100 | 100 | 0 |
| Construction | 149,900 | 146,900 | 149,000 | 147,400 | 3,000 | 900 | 1,600 |
| Manufacturing | 273,700 | 269,700 | 261,500 | 261,300 | 4,000 | 12,200 | 200 |
| Durable Goods | 194,700 | 193,700 | 185,100 | 185,400 | 1,000 | 9,600 | -300 |
| Aerospace Product and Parts Mfg. | 88,000 | 87,400 | 80,500 | 80,700 | 600 | 7,500 | -200 |
| Nondurable Goods | 79,000 | 76,000 | 76,400 | 75,900 | 3,000 | 2,600 | 500 |
| Food Manufacturing | 37,400 | 34,300 | 35,500 | 34,900 | 3,100 | 1,900 | 600 |
| Service Providing | 2,392,200 | 2,412,300 | 2,358,900 | 2,379,300 | -20,100 | 33,300 | -20,400 |
| Trade, Transportation, and Utilities | 532,500 | 534,400 | 519,900 | 520,000 | -1,900 | 12,600 | -100 |
| Wholesale Trade | 124,300 | 126,300 | 121,400 | 121,700 | -2,000 | 2,900 | -300 |
| Retail Trade | 315,000 | 314,200 | 309,200 | 308,600 | 800 | 5,800 | 600 |
| Motor Vehicle and Parts Dealers | 37,300 | 38,000 | 36,400 | 36,300 | -700 | 900 | 100 |

Washington Jobs, Grouped by Economic Impact



Source: Washington Employment Security Department, Community Attributes

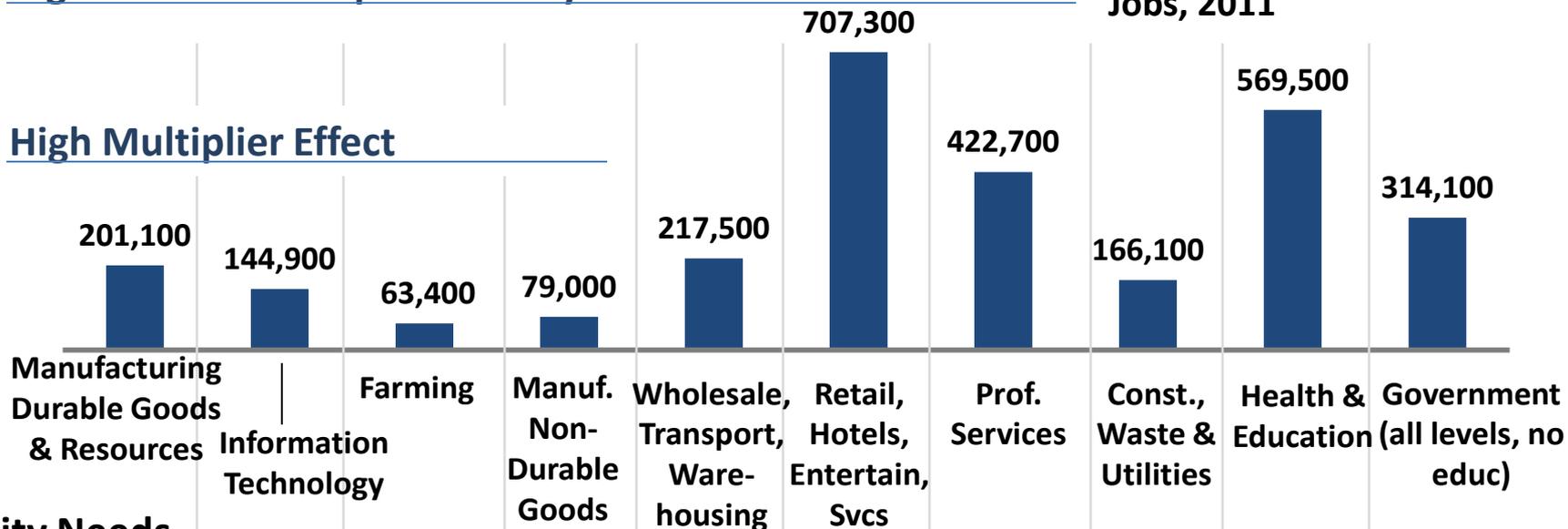
Note: Data for August, with CAI estimates to overcome data limitations, draft estimates.

Washington Jobs, Grouped by Impact

High to Medium Export Activity

Jobs, 2011

High Multiplier Effect



Mobility Needs

| | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|
| Intra-Region Mobility for Labor & Freight | X | X | X | X | X | X | X | X | X | X |
| Access for Labor | X | X | | X | X | X | X | X | X | X |
| Out of State Freight Mobility Infrastructure | X | | X | X | X | | | | | |
| Business / Tourism Travel | | X | | | | X | X | | | |

Industries grouped by common needs, ranked for economic impact.

| Industries | Washington Jobs (2.9 Million) | High Export Activity | High Multiplier Effect | Transportation Needs | | | |
|---|----------------------------------|----------------------|------------------------|--|------------------|--------------------------------------|---------------------------|
| | | | | Intra-region mobility, freight and labor | Access for Labor | Out-of-State Freight Infra-structure | Business / Tourism Travel |
| Production of Durable Goods & Resources | 201,100 | High | High | X | X | X | |
| Information Technology | 144,900 | High | High | X | X | | X |
| Farming | 63,400 | High | High | X | | X | |
| Production of Non-Durable Goods | 79,000 | Med-High | High | X | X | X | |
| Wholesale, Transport, Warehousing | 217,500 | High | | X | X | X | |
| Consumer Services, Hospitality, Retail | 707,300 | Med | | X | X | | X |
| Professional Services | 422,700 | Med | | X | X | | X |
| Construction, Waste & Utilities | 166,100 | | | X | X | | |
| Health & Education | 569,500 | | | X | X | | |
| Government (all levels, no educ) | 314,100 | | | X | X | | |

Washington State Export Industries

| Sector | Exports and Examples | Top Ranking Mobility Needs | | |
|-----------------------------|---|----------------------------|----------|--------------|
| | | Freight | Commuter | Int'l Travel |
| Aerospace | Planes, parts, expertise | X | X | X |
| I.T. | Virtual products, on-line commerce | | X | X |
| Durable goods manufacturing | Smaller products, supplies | X | X | |
| Food and perishables | Apples, Fruit, Hops, Wine, much more | X | X | |
| Professional services | Design expertise, CleanTech, innovation | | X | X |
| Research & Education | Expertise, collaboration | | X | X |

Department of Commerce

Key Industries for Washington State

-
- | | |
|-----------------------------------|---|
| • Aerospace | • Information and communication technology |
| • Clean energy | • Manufacturing |
| • Forest products | • Marine technology |
| • Global health and life sciences | • Value-added agriculture and food processing |
| | • Tourism |
-

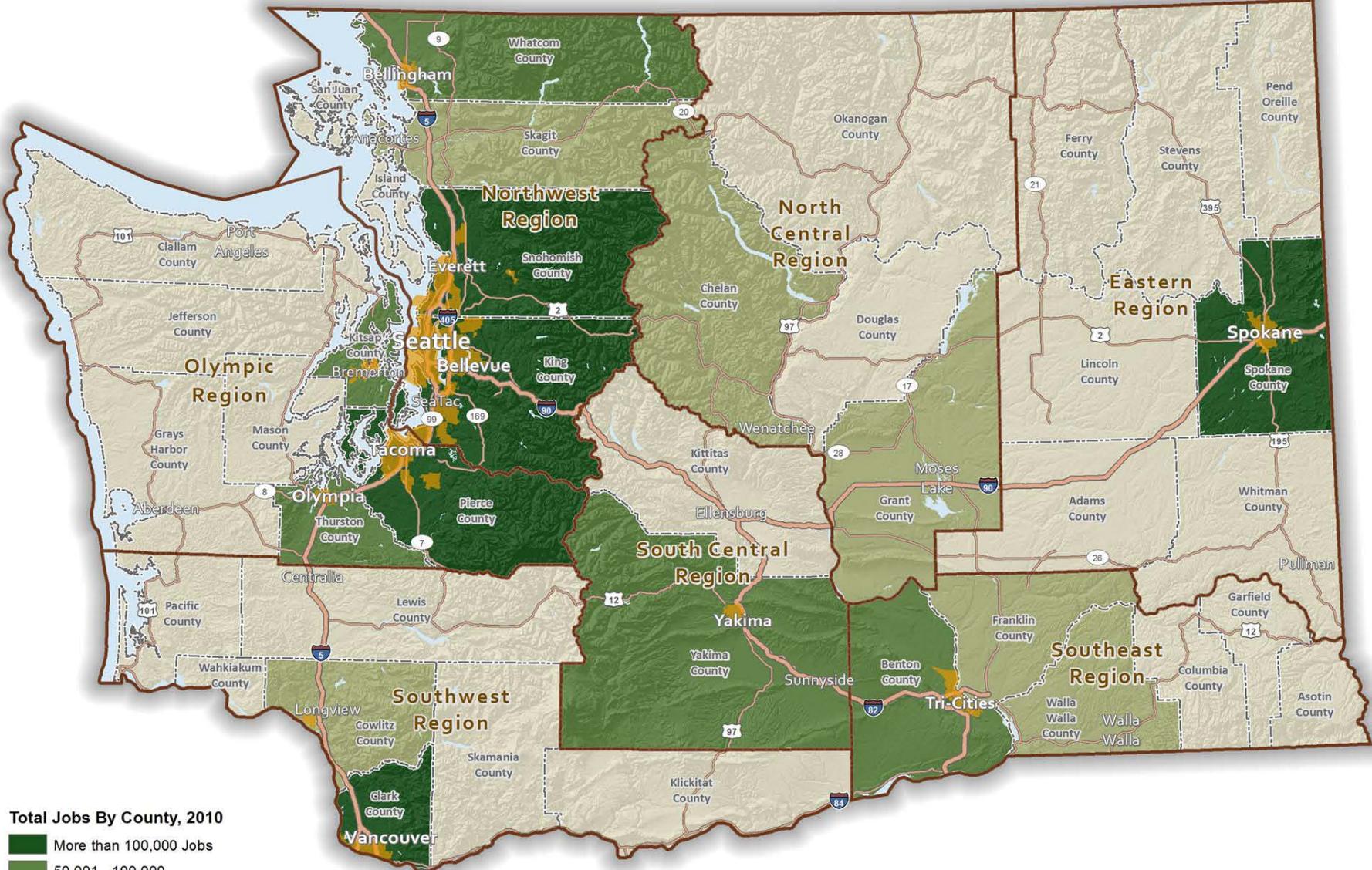
Contents

| | |
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Geographic economic impact considerations

1. Regional economies do not fit neatly into governmental jurisdictions
2. Specific industries have relatively and significantly different impacts among counties and cities
3. Similar transportation investments may be more critical to some industries, more critical to some regions
4. Some investments may enable growth, others may help prevent economic deterioration ... and shades of gray in between
5. Some investments may be significant by themselves, others may be part of system and their impacts may be less distinct

Jobs by County, All Jobs, 2010



Total Jobs By County, 2010

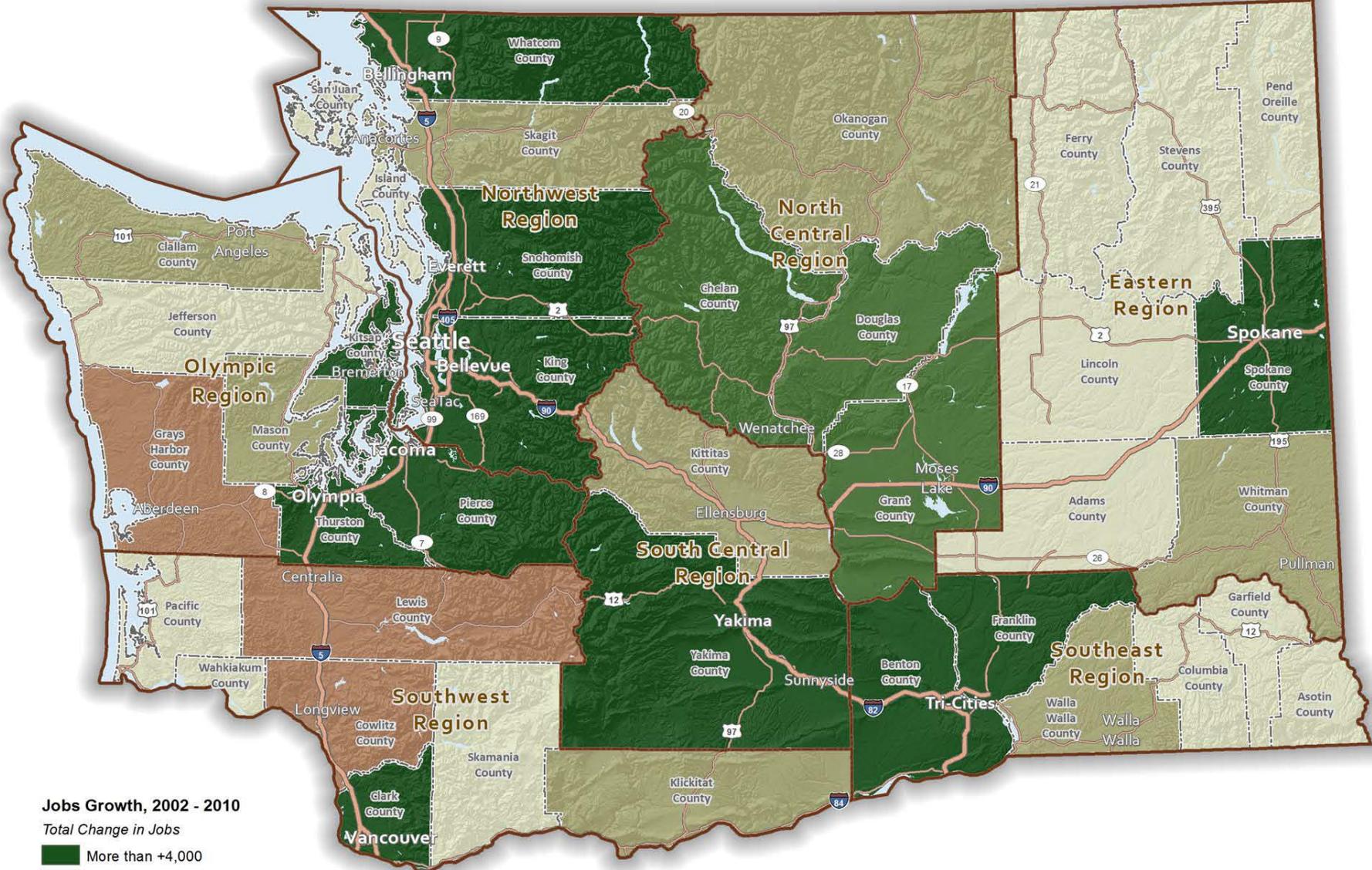
- More than 100,000 Jobs
- 50,001 - 100,000
- 25,000 - 50,000
- Less than 25,000 Jobs
- Urban Areas** (Highest Concentrations of Jobs)

- Region Boundaries**
- County Boundaries**

Map Date: October 2011
 Source: Washington State Employment Security Department, Community Attributes Inc. 2011; ESRI 2011



Jobs Growth Change by County, All Jobs, 2002 - 2010



Jobs Growth, 2002 - 2010

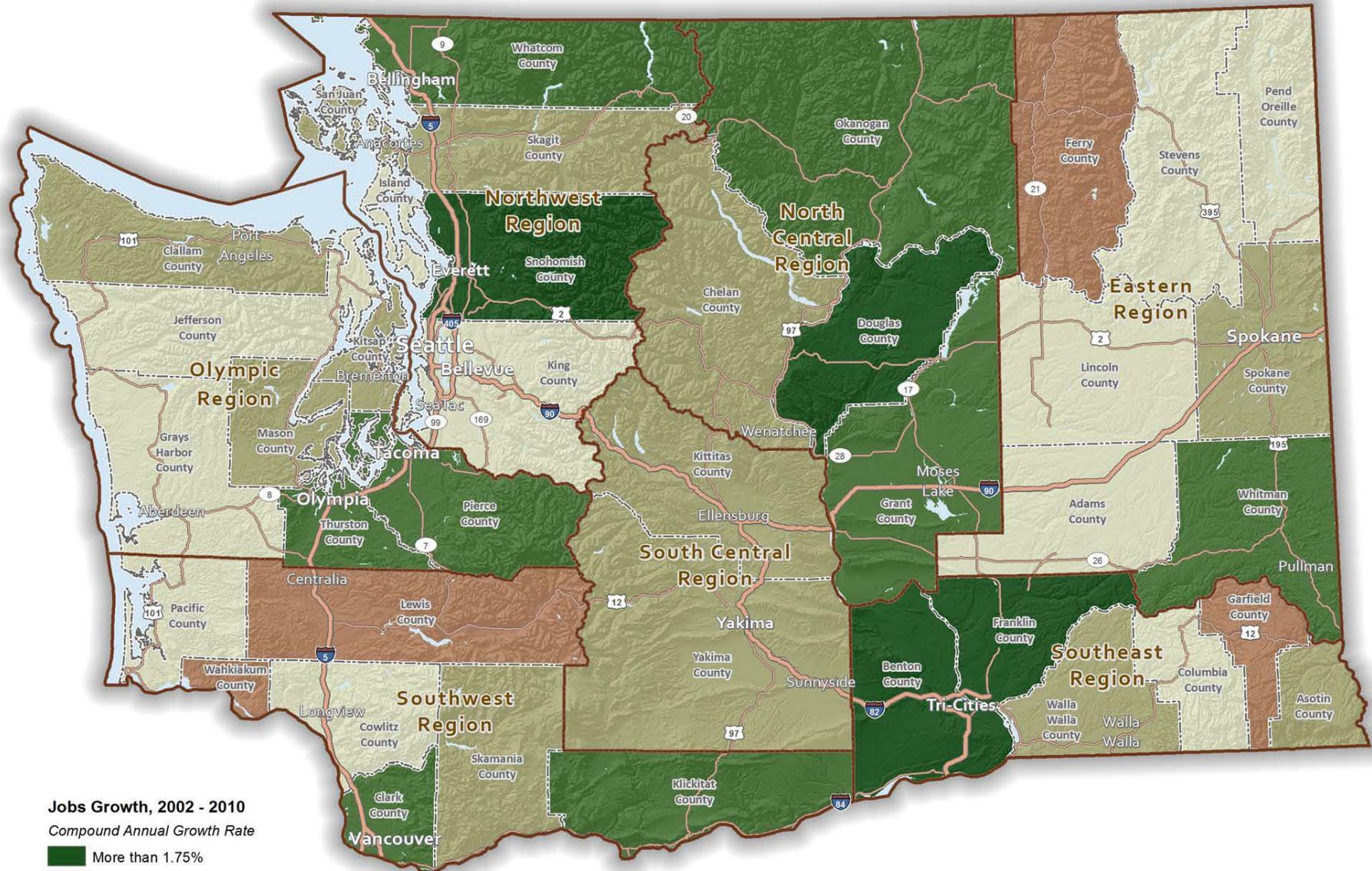
- Total Change in Jobs
- More than +4,000
 - +2,001 - +4,000
 - +501 to +2,000
 - 500 to +500
 - Less than -500

- Region Boundaries
- County Boundaries

Map Date: October 2011
 Source: Washington State Employment Security Department, Community Attributes Inc. 2011; ESRI 2011



Jobs Growth Rates by County, All Jobs, 2002 - 2010



Jobs Growth, 2002 - 2010
 Compound Annual Growth Rate

- More than 1.75%
- +1.25% to +1.75%
- +0.51% to +1.25%
- 0.5% to +0.5%
- Less than -0.5%

Region Boundaries
 County Boundaries

Map Date: October 2011
 Source: Washington State Employment Security Department, Community Attributes Inc. 2011; ESRI 2011

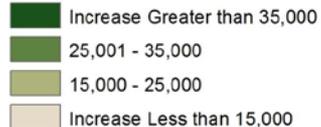


Forecasted Job Growth, All Jobs, 2011 - 2019



Forecasted Job Growth, 2011 - 2019

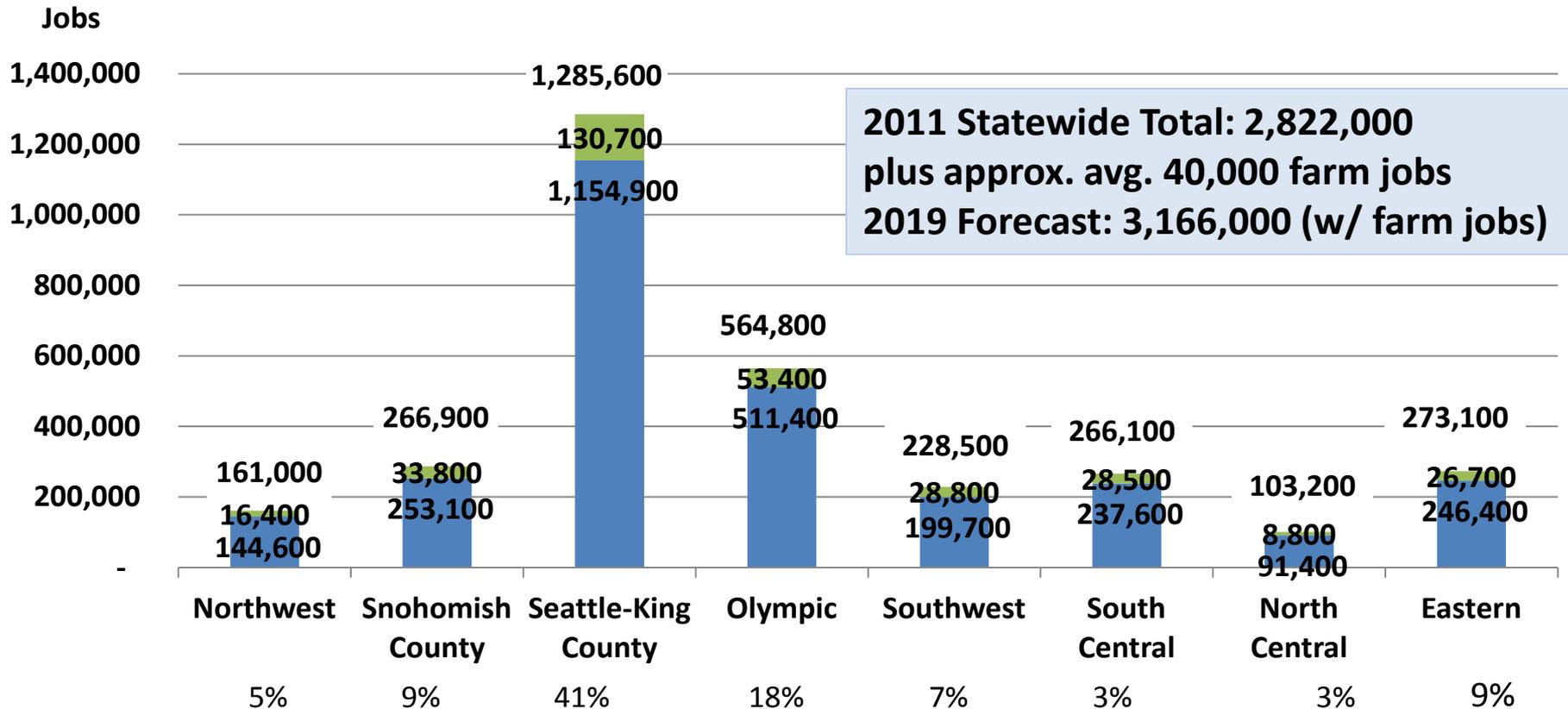
Total Change in Jobs



Map Date: October 2011
 Source: Washington State Employment Security
 Department, Community Attributes Inc. 2011; ESRI 2011



Jobs by Region in Washington, August 2011



Source: Washington Employment Security Department, Community Attributes

Note: Data for August, with CAI estimates to overcome data limitations, draft estimates.



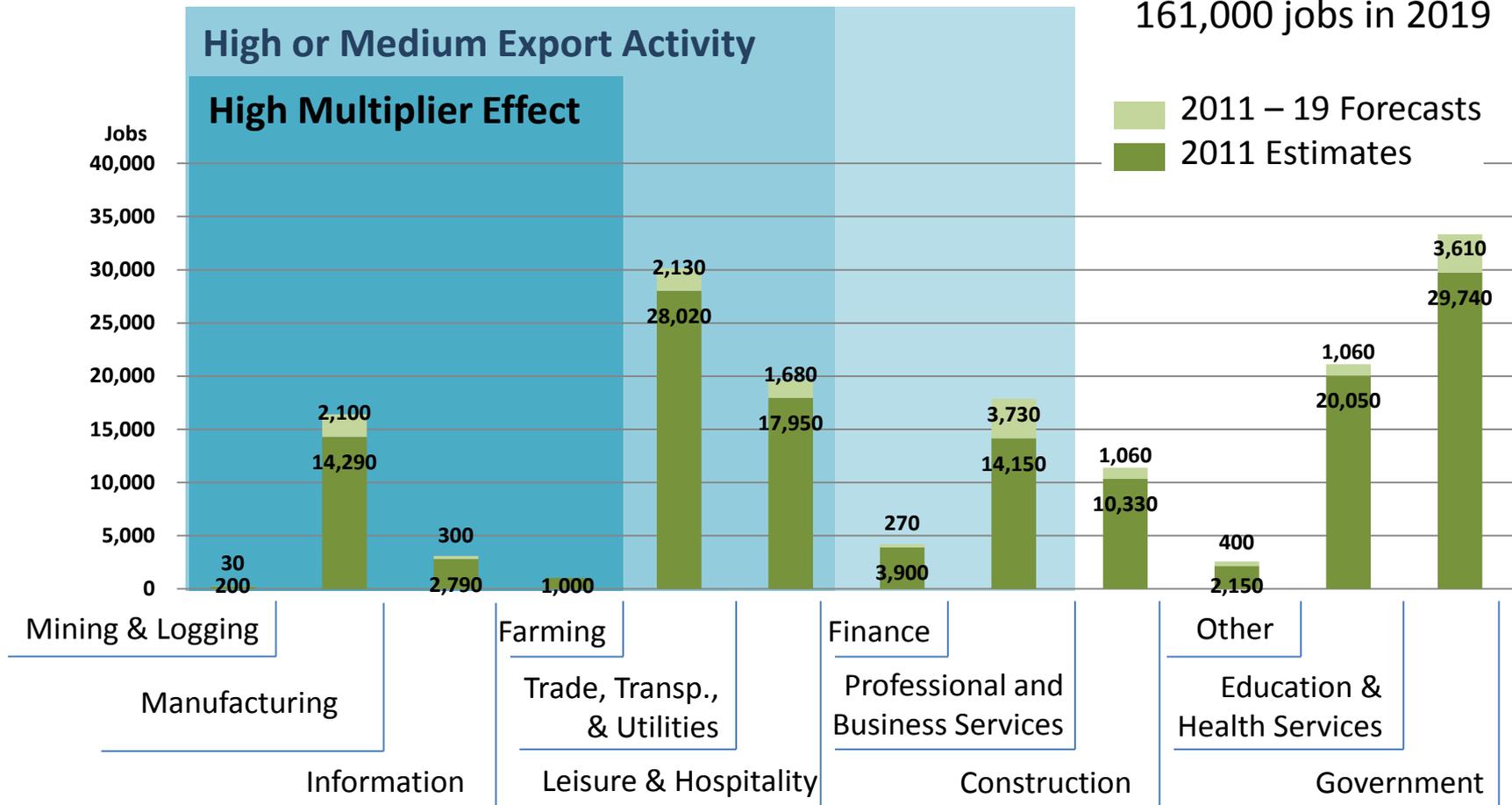
North-Northwestern Washington, Jobs by Industry and Forecasts

144,600 jobs in 2011
161,000 jobs in 2019

High or Medium Export Activity

High Multiplier Effect

2011 – 19 Forecasts
2011 Estimates



Source: Washington Employment Security Department, Community Attributes

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October 4, 2011

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Snohomish

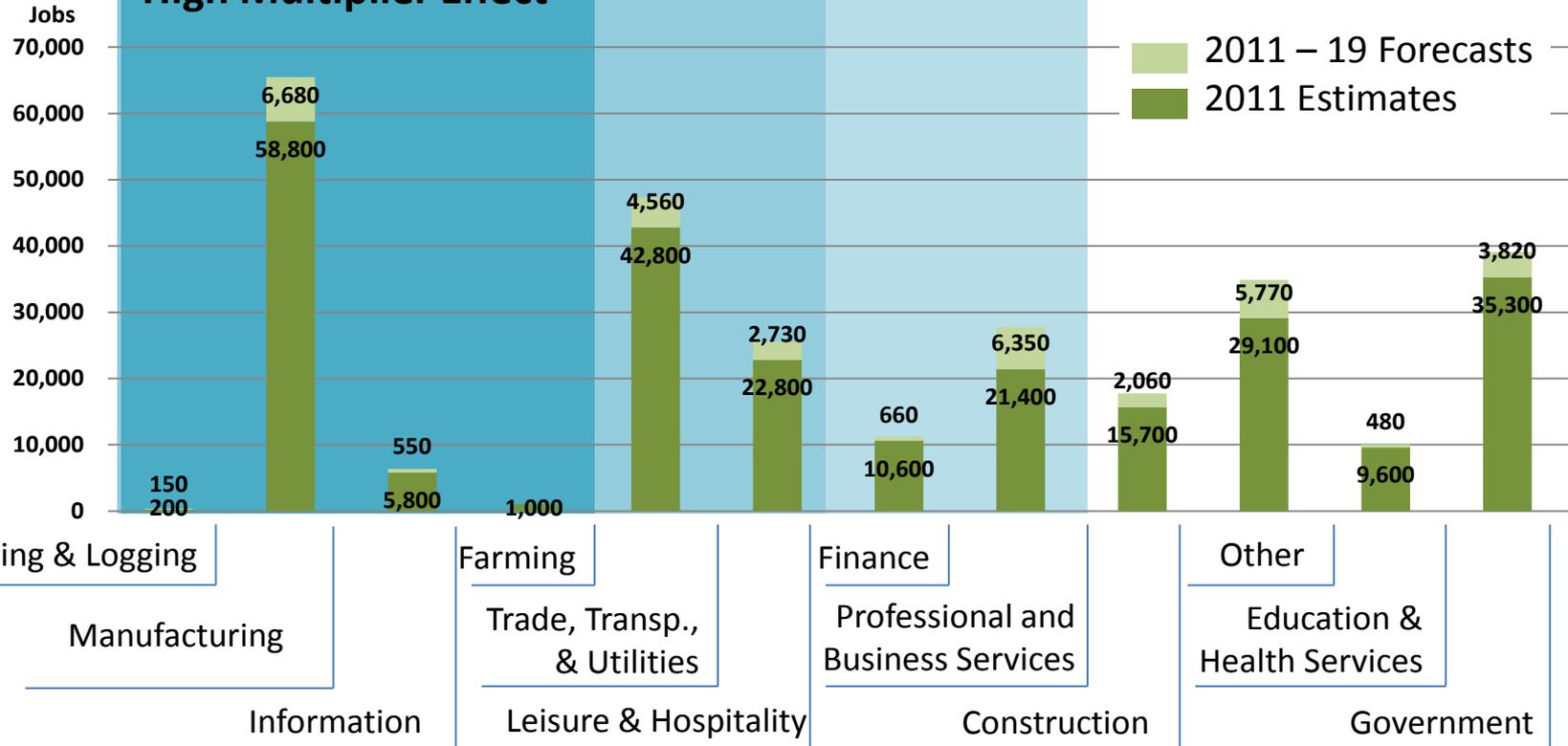
Washington, Jobs by Industry and Forecasts

253,100 jobs in 2011

266,900 jobs in 2019

High or Medium Export Activity

High Multiplier Effect



Source: Washington Employment Security Department, Community Attributes

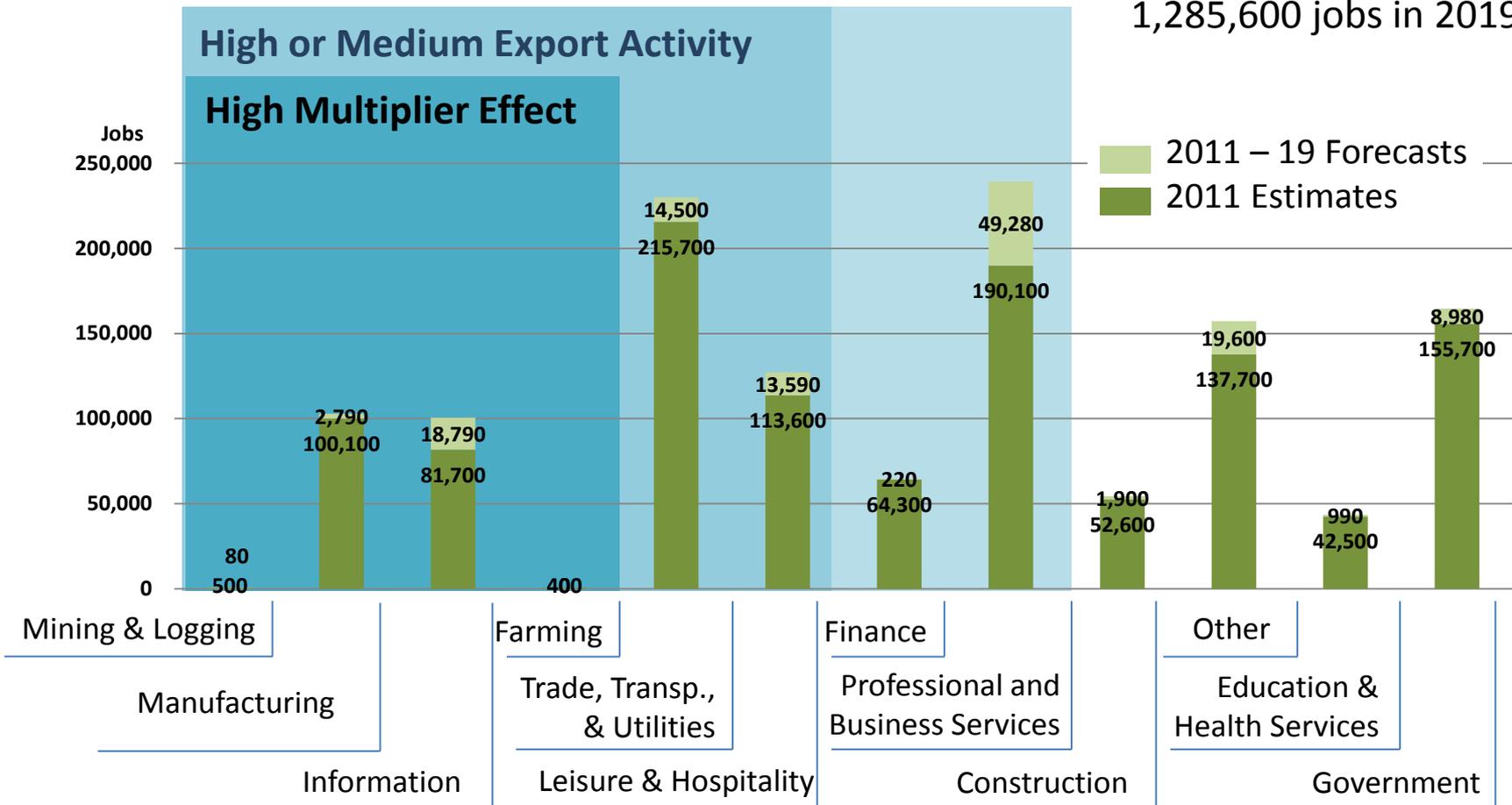
Note: Data for August, with CAI estimates to overcome data limitations, draft estimates.

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King County, Jobs by Industry and Forecasts

1,154,900 jobs in 2011
1,285,600 jobs in 2019



Source: Washington Employment Security Department, Community Attributes

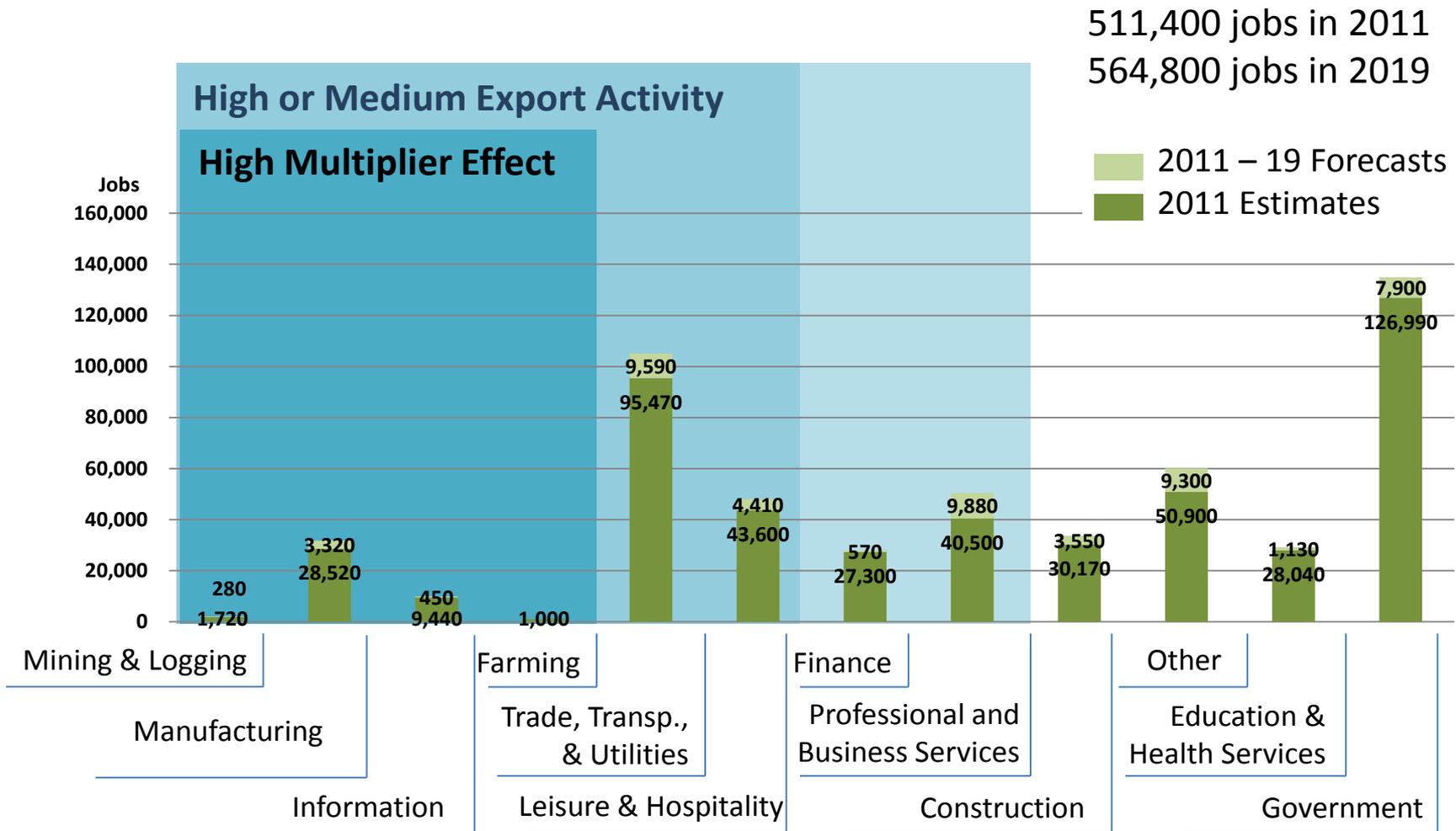
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Olympic Region, Jobs by Industry and Forecasts



Source: Washington Employment Security Department, Community Attributes

Note: Data for August, with CAI estimates to overcome data limitations, draft estimates.

October 4, 2011

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27

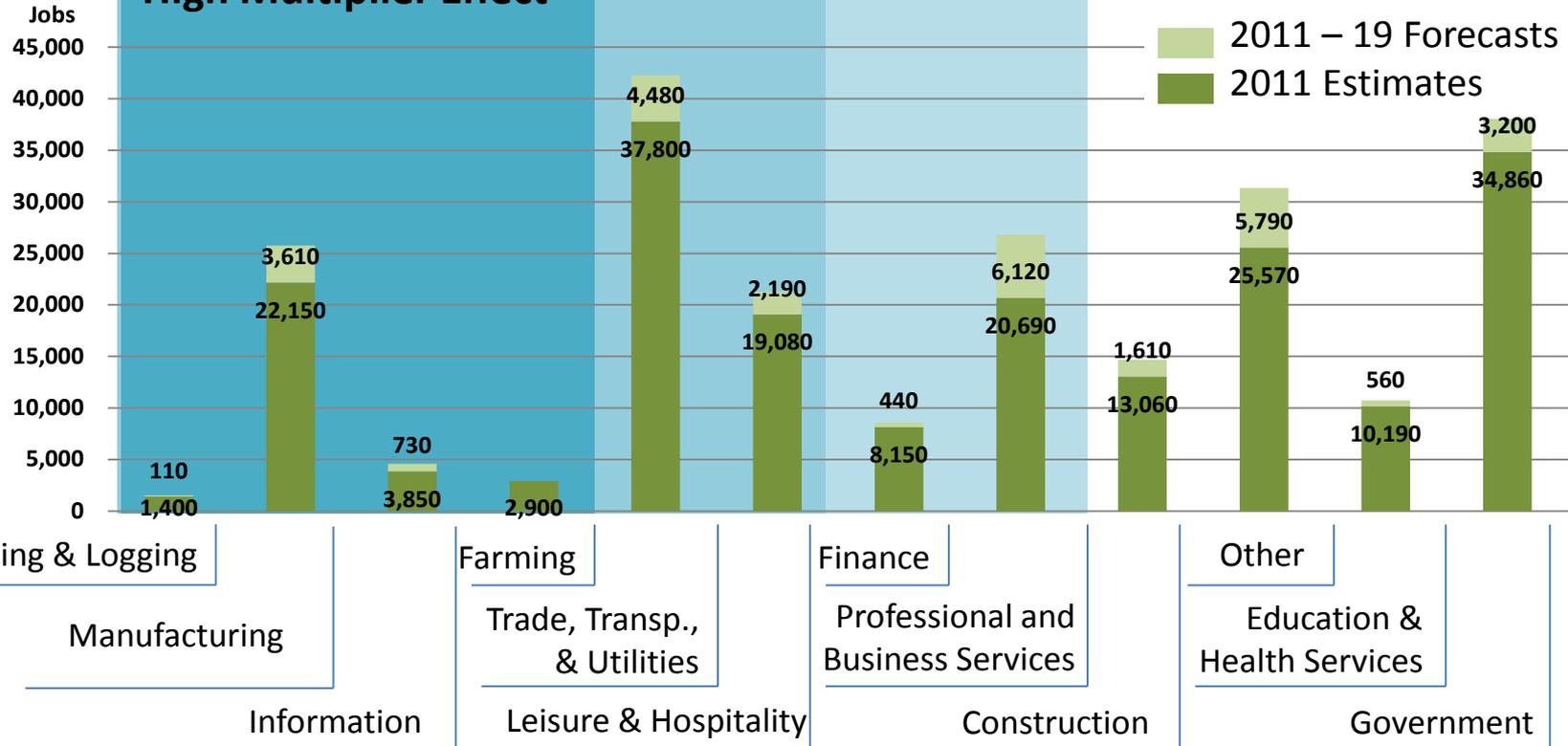


Southwestern Washington, Jobs by Industry and Forecasts

199,700 jobs in 2011
228,500 jobs in 2019

High or Medium Export Activity

High Multiplier Effect



Source: Washington Employment Security Department, Community Attributes

Note: Data for August, with CAI estimates to overcome data limitations, draft estimates.



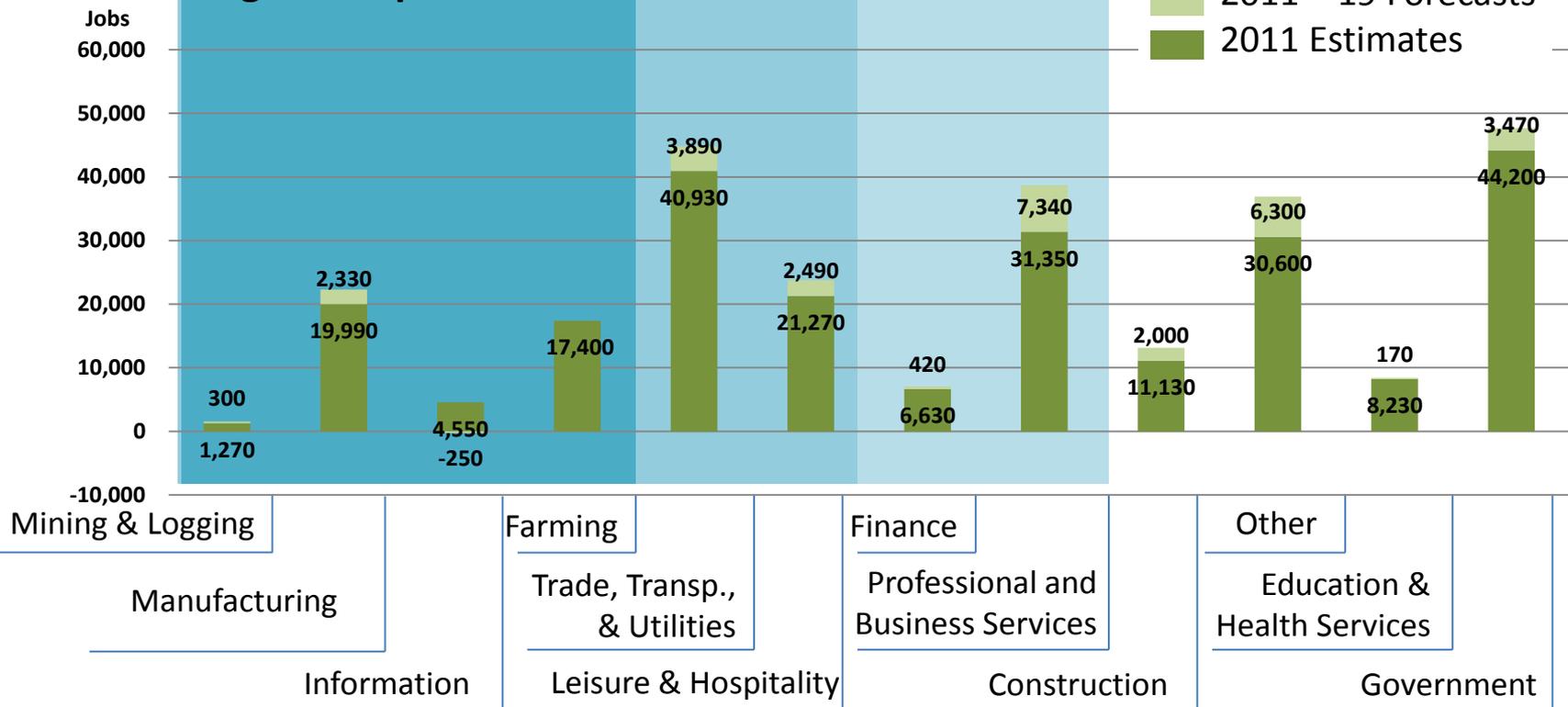
South Central Washington, Jobs by Industry and Forecasts

237,600 jobs in 2011
266,000 jobs in 2019

High or Medium Export Activity

High Multiplier Effect

2011 – 19 Forecasts
2011 Estimates



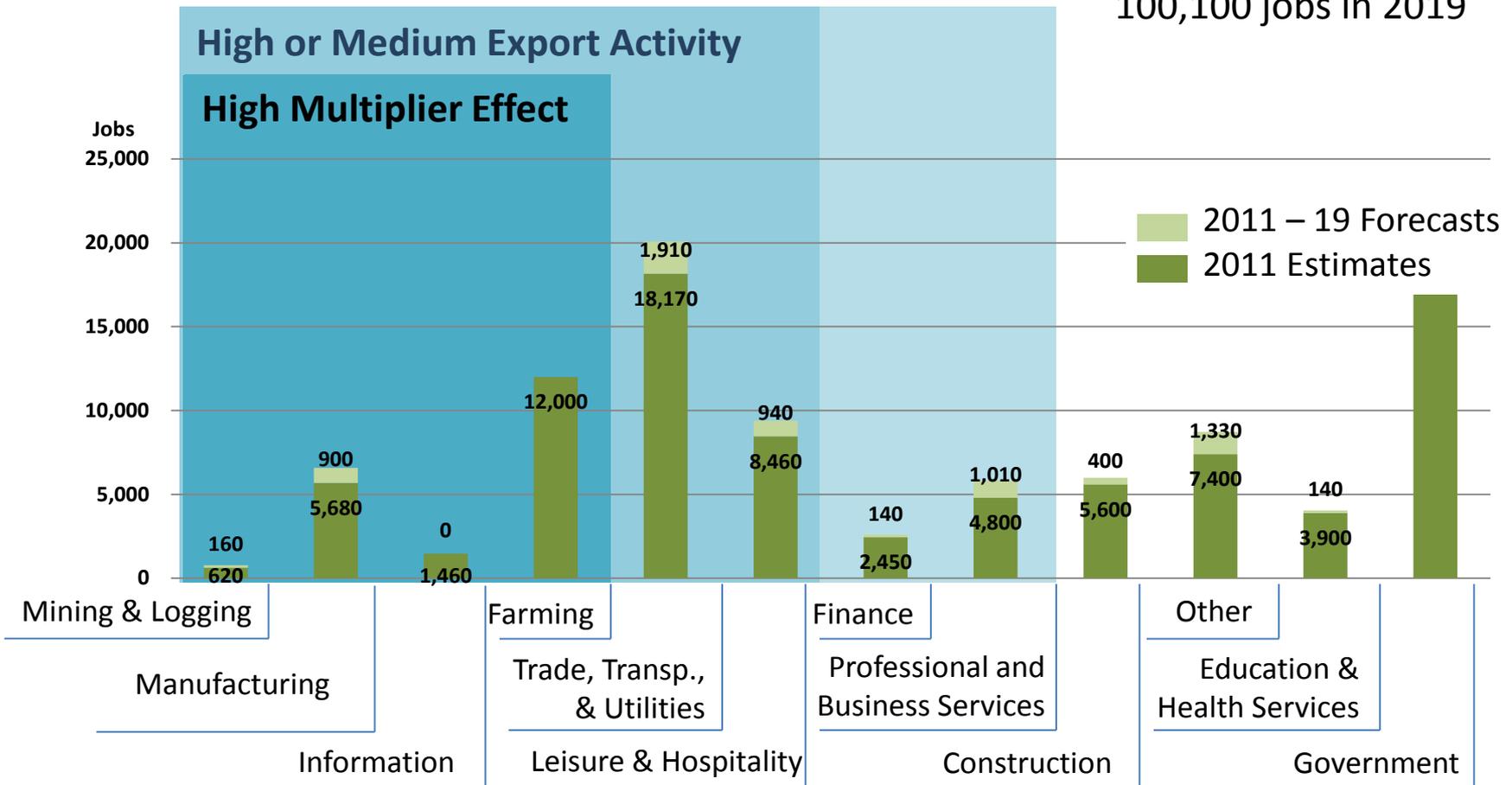
Source: Washington Employment Security Department, Community Attributes

Note: Data for August, with CAI estimates to overcome data limitations, draft estimates.



North Central Washington, Jobs by Industry and Forecasts

91,400 jobs in 2011
100,100 jobs in 2019



Source: Washington Employment Security Department, Community Attributes

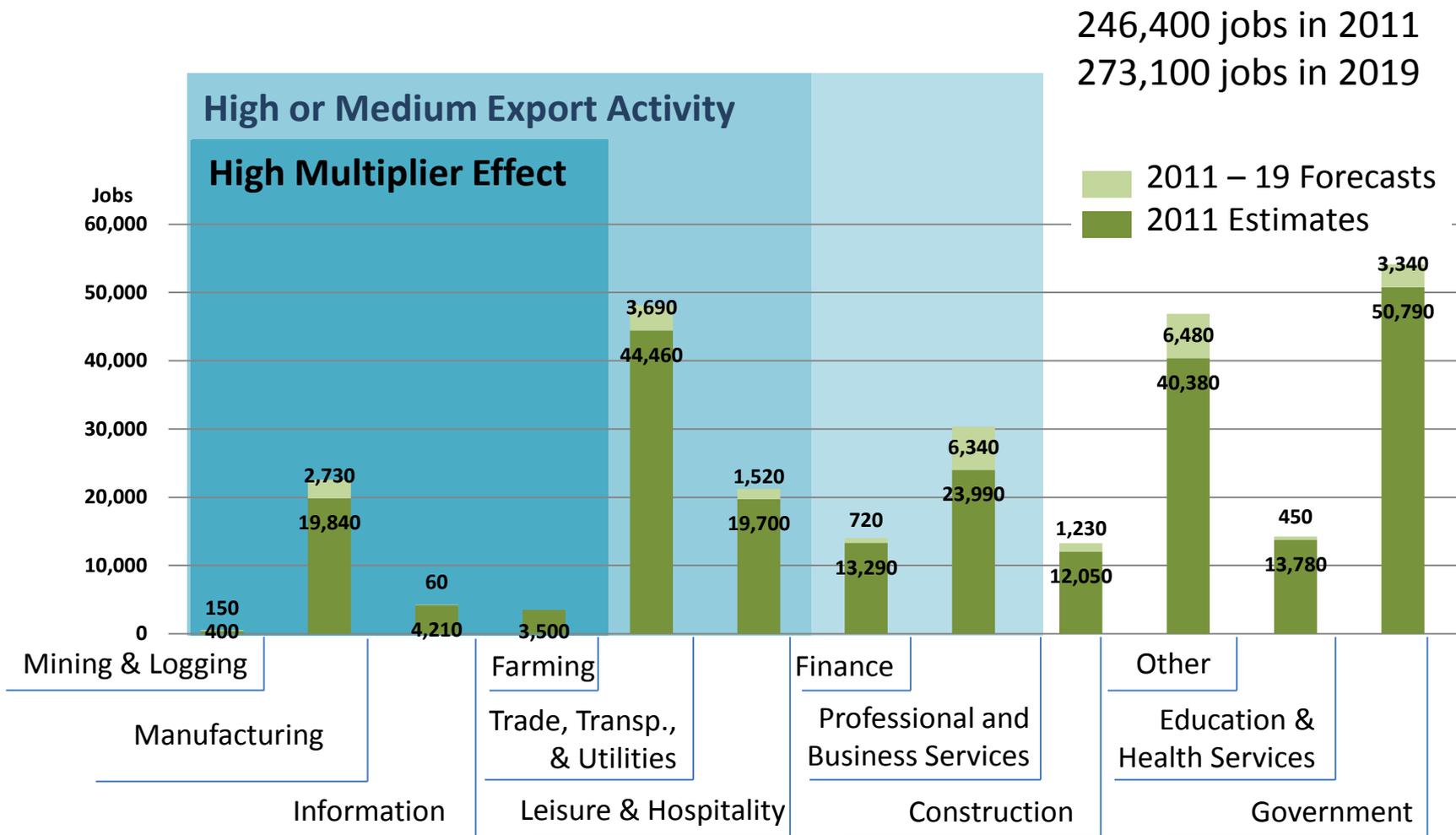
Note: Data for August, with CAI estimates to overcome data limitations, draft estimates.

October 4, 2011

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Eastern Washington, Jobs by Industry and Forecasts



Source: Washington Employment Security Department, Community Attributes

Note: Data for August, with CAI estimates to overcome data limitations, draft estimates.

October 4, 2011

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35

Contents

| | |
|---|-------------------------|
| Context: Statewide Employment Trends and Outlook | Data charts |
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Conclusions

- Employment data must be analyzed and re-packaged to align information with decisions
- Transportation investments should
 - reduce operating costs for employers
 - reduce access cost for employees
- High impact industries have high multiplier impacts and high export value
- Jobs will increase again, and investments should support their growth, regionally and by industry
- Each region has different needs for their economy and their transportation
- Recommendation: Address consistency of data products statewide for better decision-making