

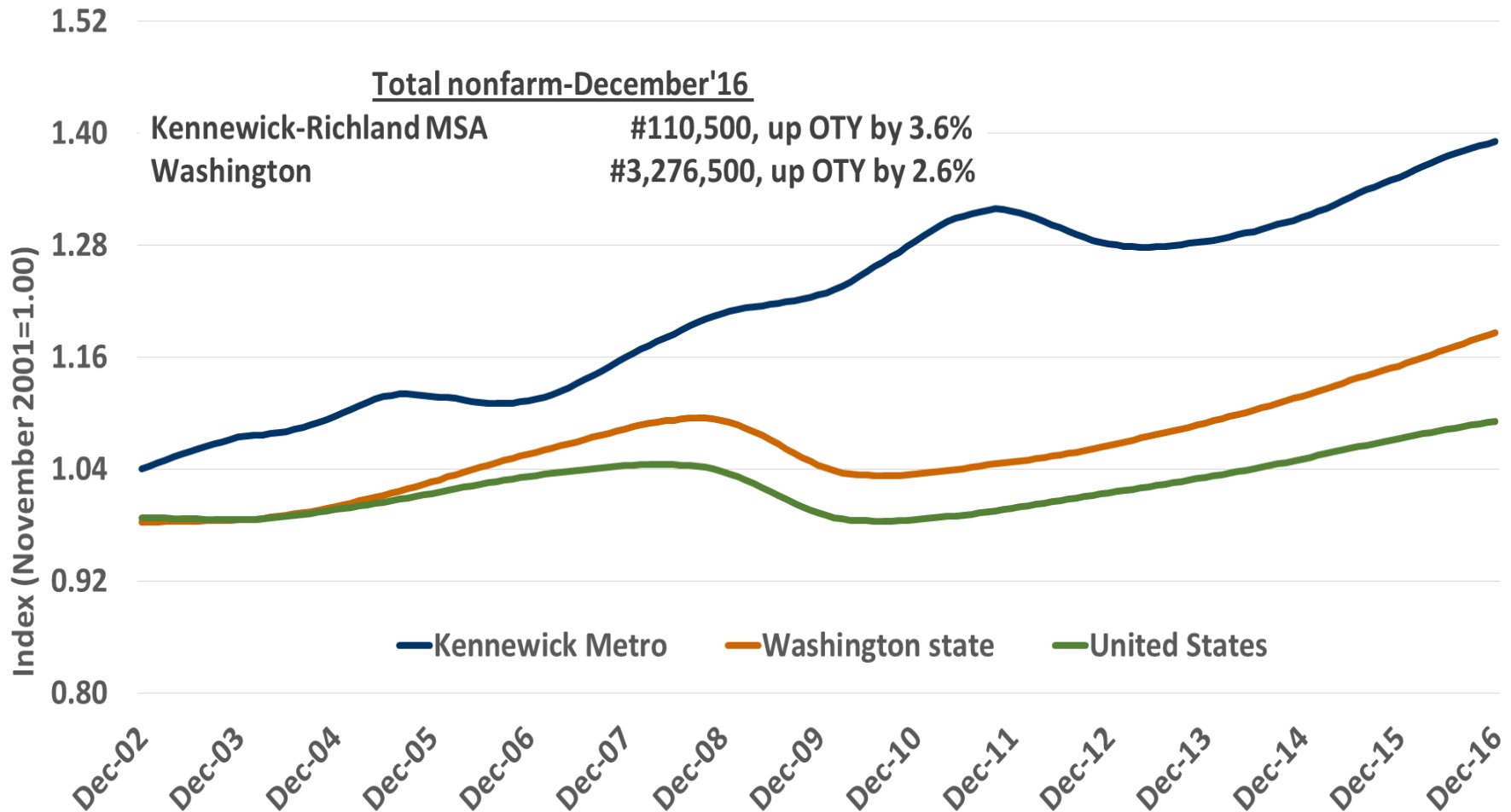
State of the labor market: Benton and Franklin Counties (Kennewick-Pasco-Richland MSA)

**Ajsa Suljic, Regional Labor Economist
Labor Market and Performance Analysis
February 1th, 2017**

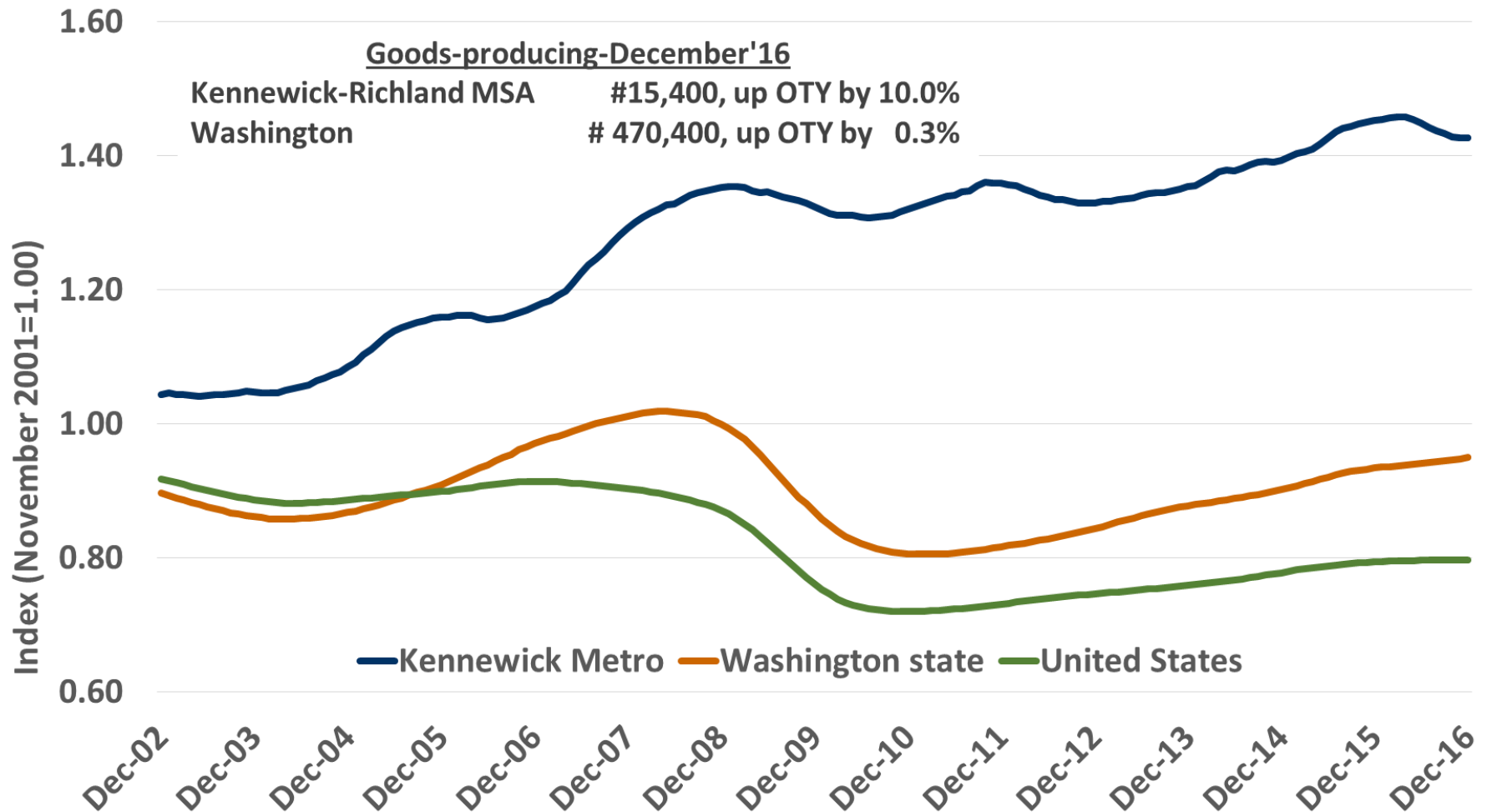


**Employment
Security
Department**
WASHINGTON STATE

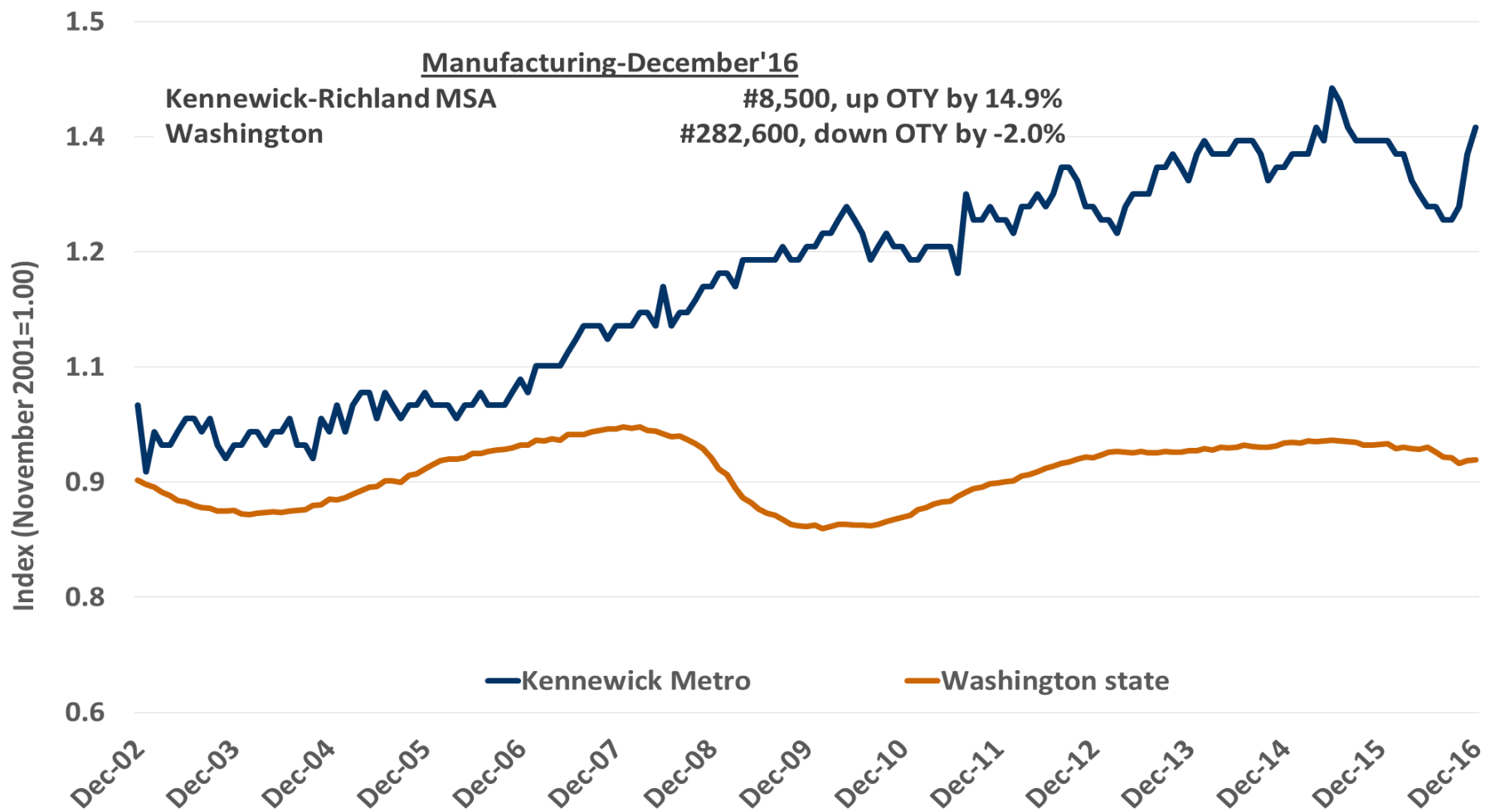
Nonfarm employment continued growth



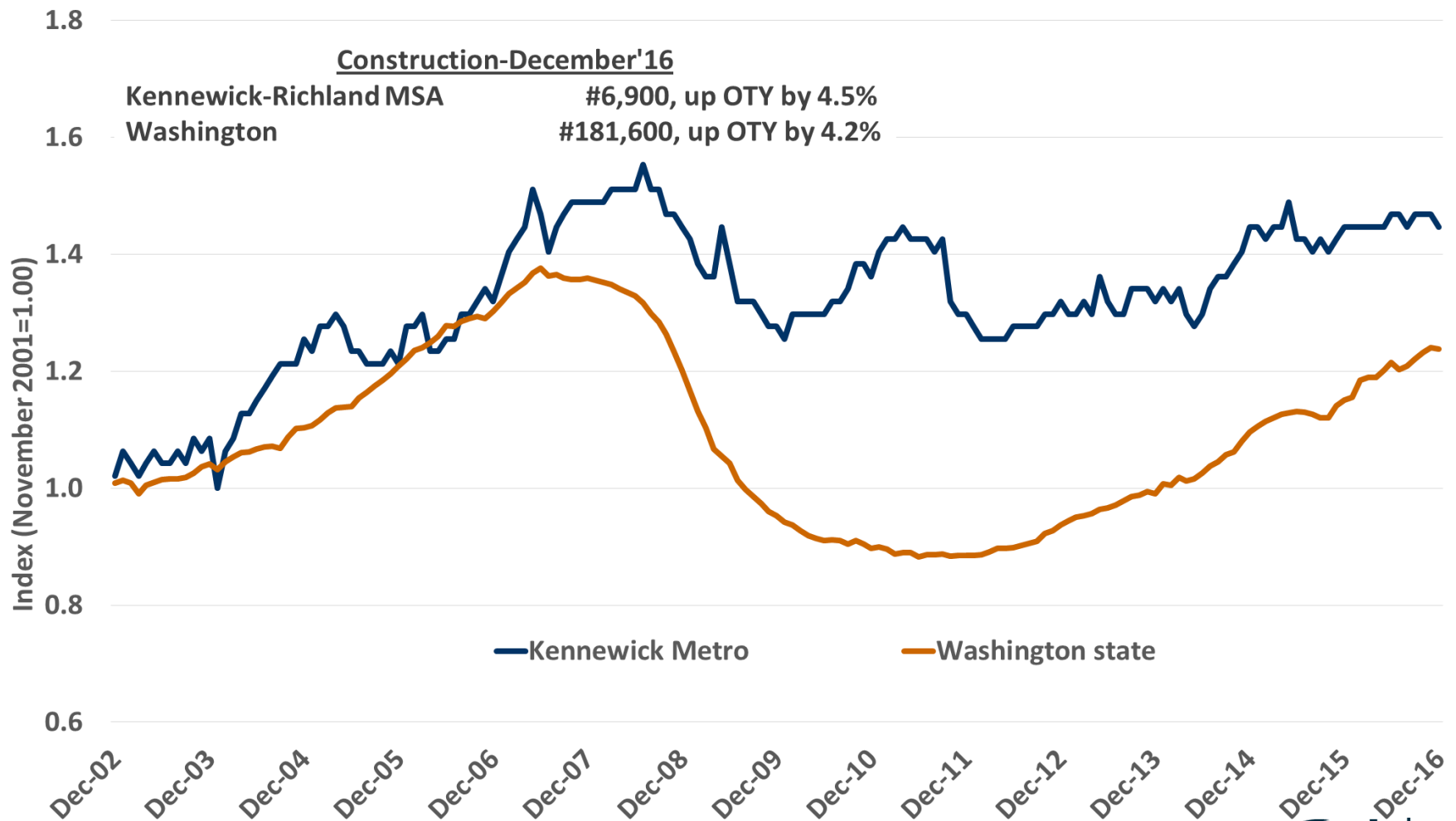
Goods-producing moving ahead with growth



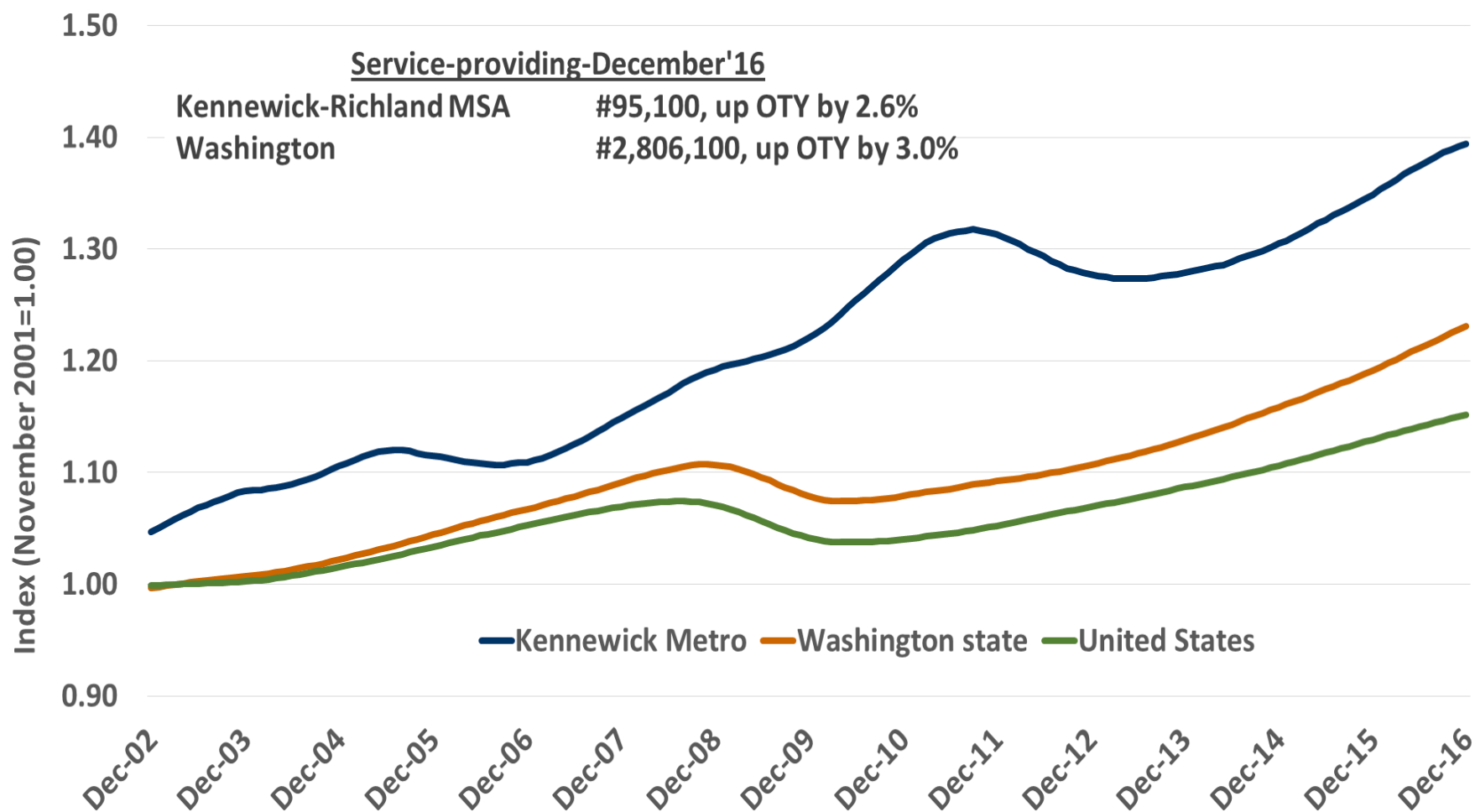
Manufacturing



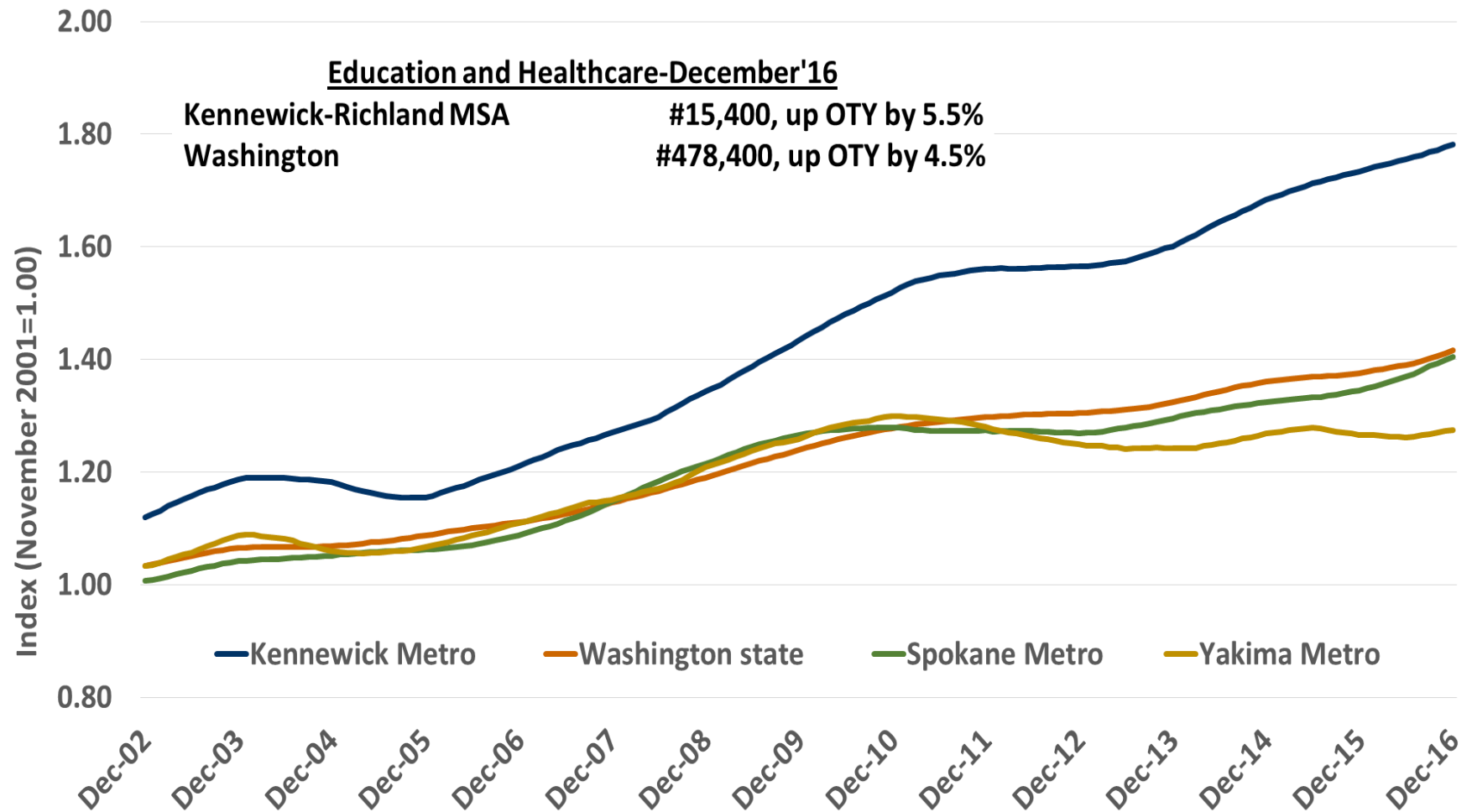
Construction



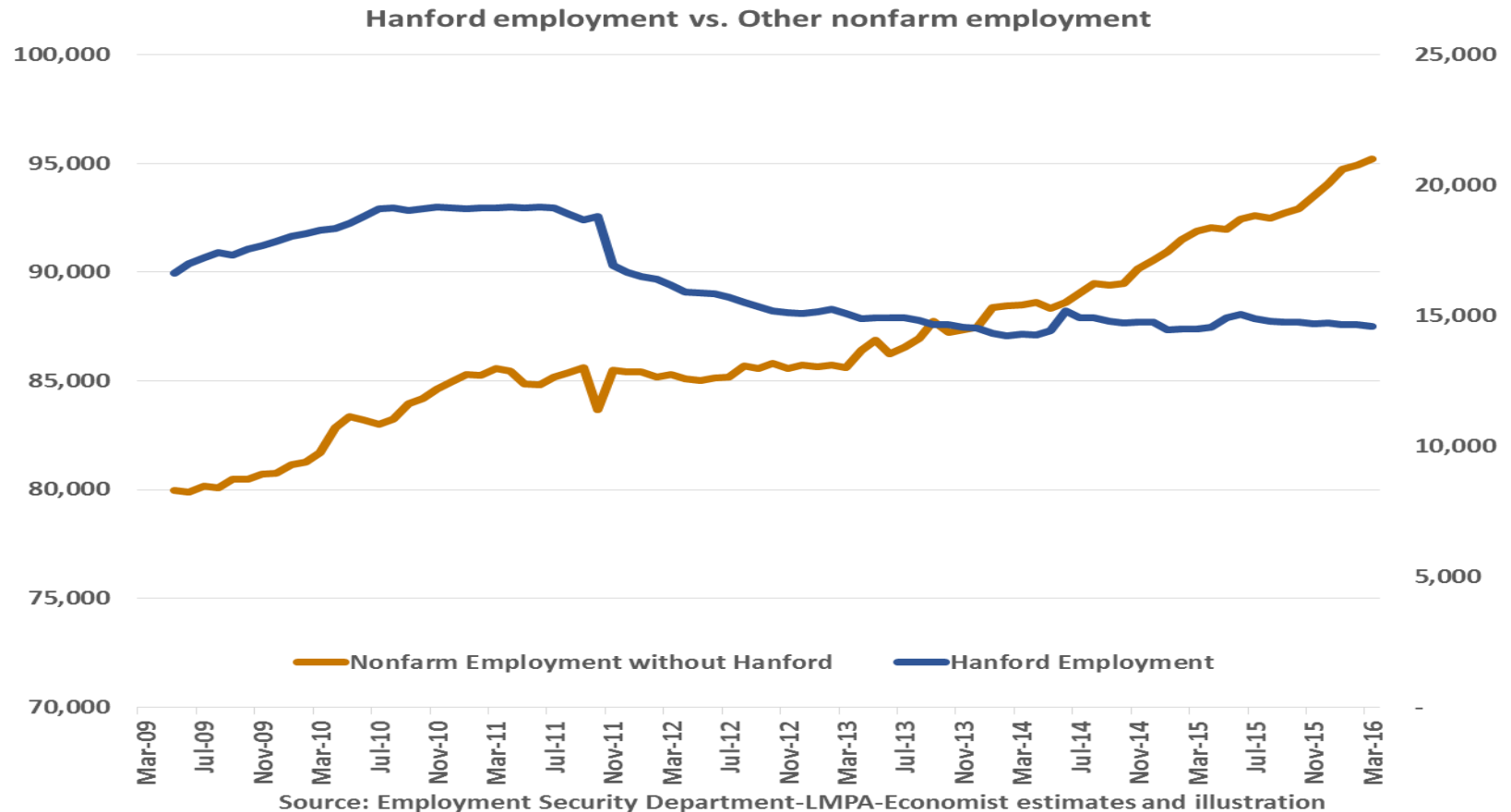
Service-providing industries



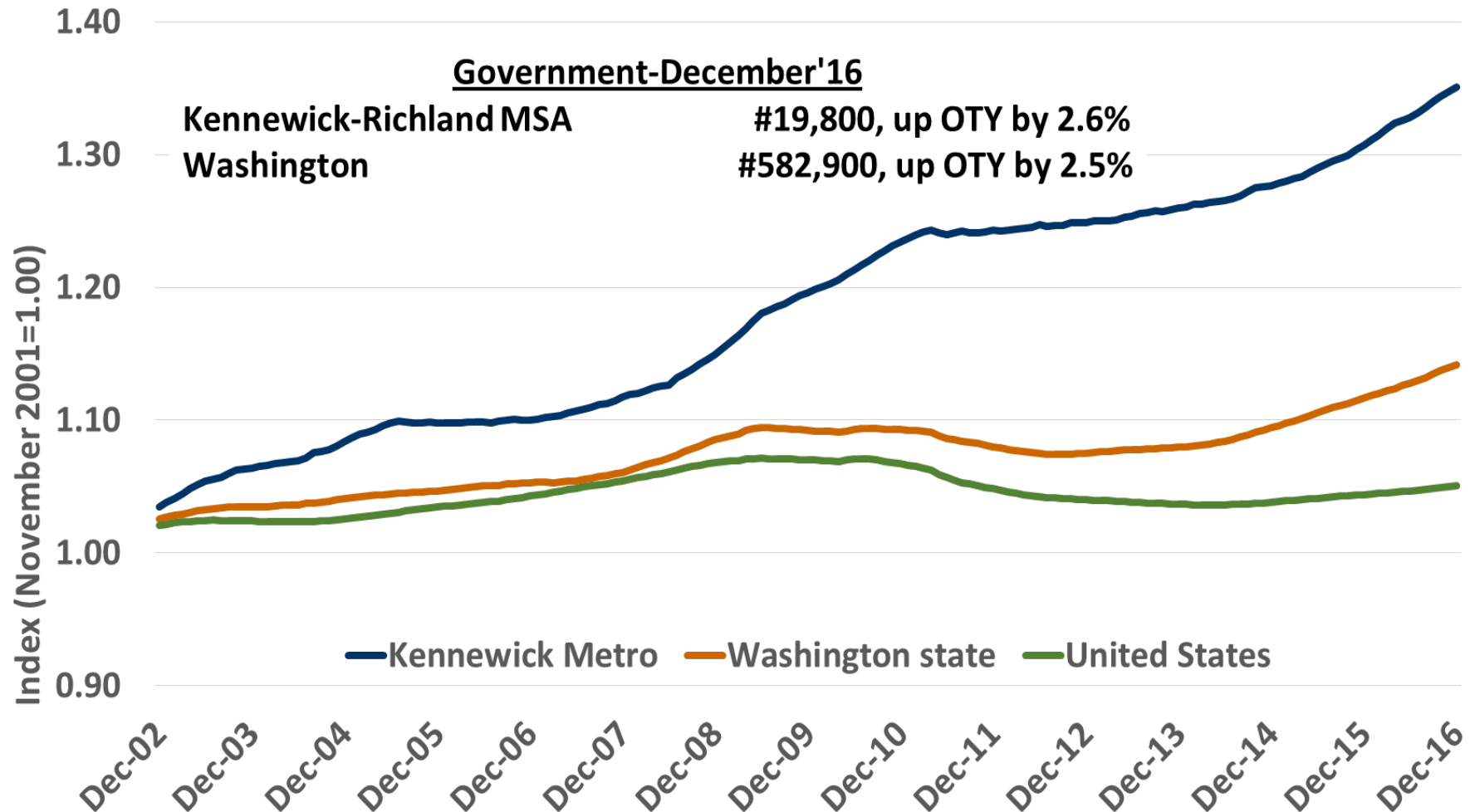
Education and Healthcare



Hanford employment vs. Other nonfarm employment



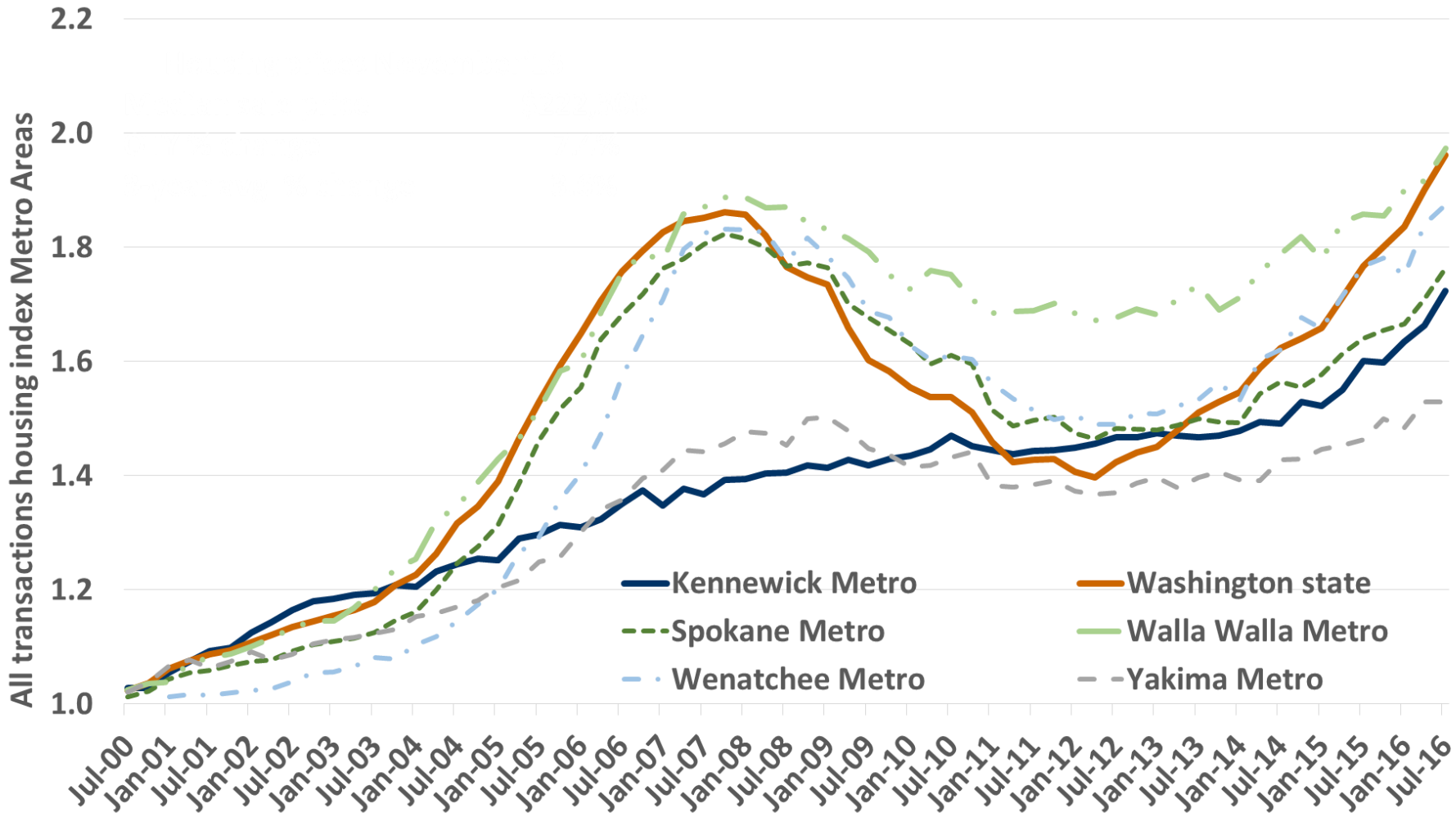
Government employment



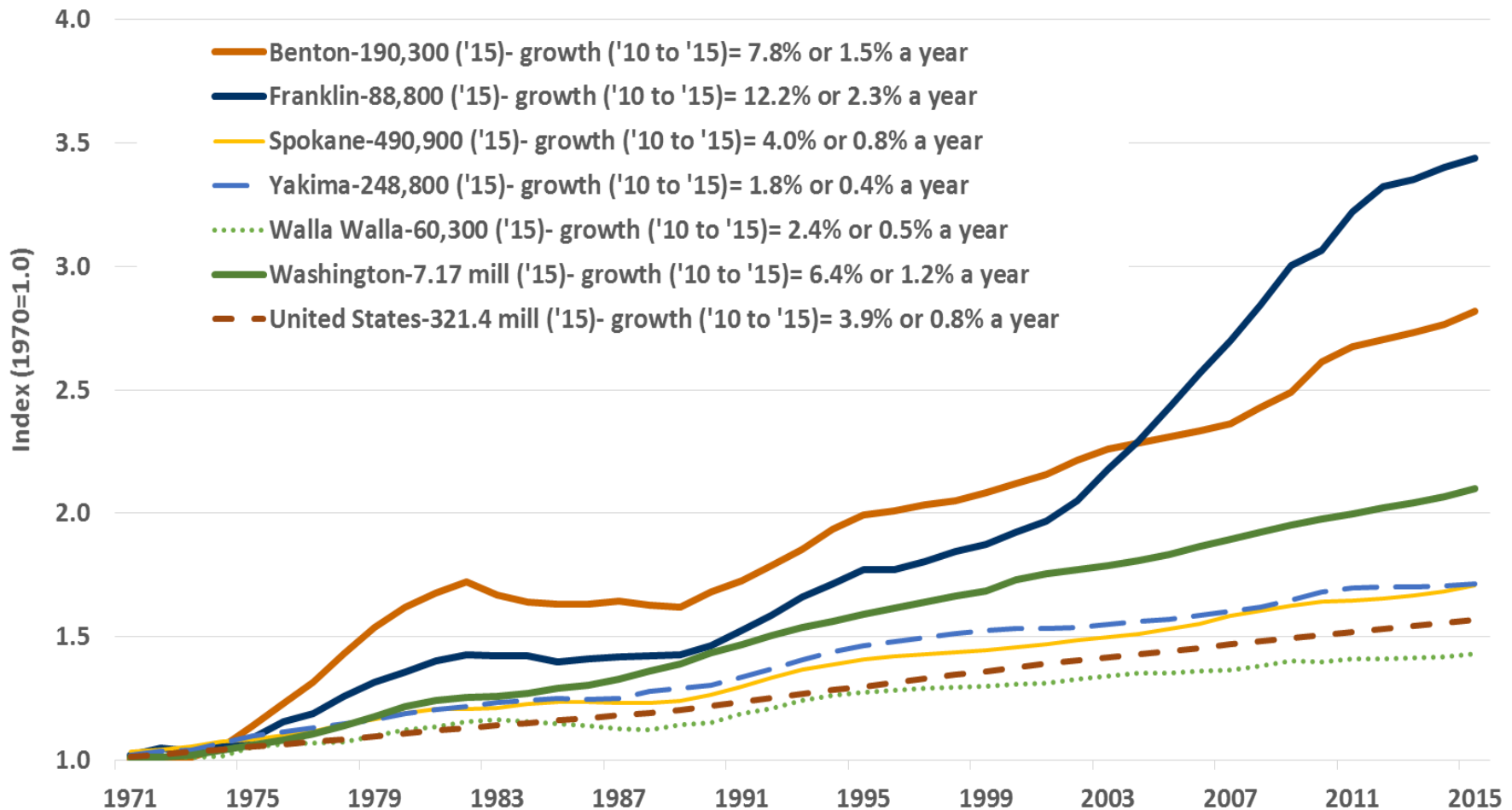
Covered employment 2015

All Sectors	Average Annual Employment	% of Total Employment	Total Annual Wages	% of Total Wages	Average Annual Wage
All Industries	115,478	100.0%	5,479,152,071	100.0%	\$47,448
Ag., forestry, fishing & hunting	12,748	11.0%	341,820,737	6.2%	\$26,814
Mining	*	*	*	*	*
Utilities	*	*	*	*	*
Construction	6,347	5.5%	350,549,839	6.4%	\$55,231
Manufacturing	7,808	6.8%	359,067,817	6.6%	\$45,987
Wholesale trade	3,304	2.9%	175,789,956	3.2%	\$53,205
Retail trade	12,465	10.8%	356,739,525	6.5%	\$28,619
Transportation & warehousing	2,340	2.0%	97,070,224	1.8%	\$41,483
Information	853	0.7%	37,888,569	0.7%	\$44,418
Finance & insurance	2,036	1.8%	115,378,958	2.1%	\$56,669
Real estate & rental & leasing	1,588	1.4%	47,539,982	0.9%	\$29,937
Professional & technical services	9,978	8.6%	900,429,959	16.4%	\$90,242
Mgmt.of companies & enterprises	329	0.3%	33,548,839	0.6%	*
Administrative & waste services	10,512	9.1%	771,215,312	14.1%	\$73,365
Educational services	795	0.7%	26,596,767	0.5%	\$33,455
Health care & social assistance	13,069	11.3%	566,665,985	10.3%	\$43,360
Arts, entertainment, & recreation	1,686	1.5%	22,887,169	0.4%	\$13,575
Accommodation & food services	8,477	7.3%	145,721,385	2.7%	\$17,190
Other services, ex. public admin.	2,391	2.1%	69,408,881	1.3%	\$29,029
Government	18,549	16.1%	1,035,345,159	18.9%	\$55,817

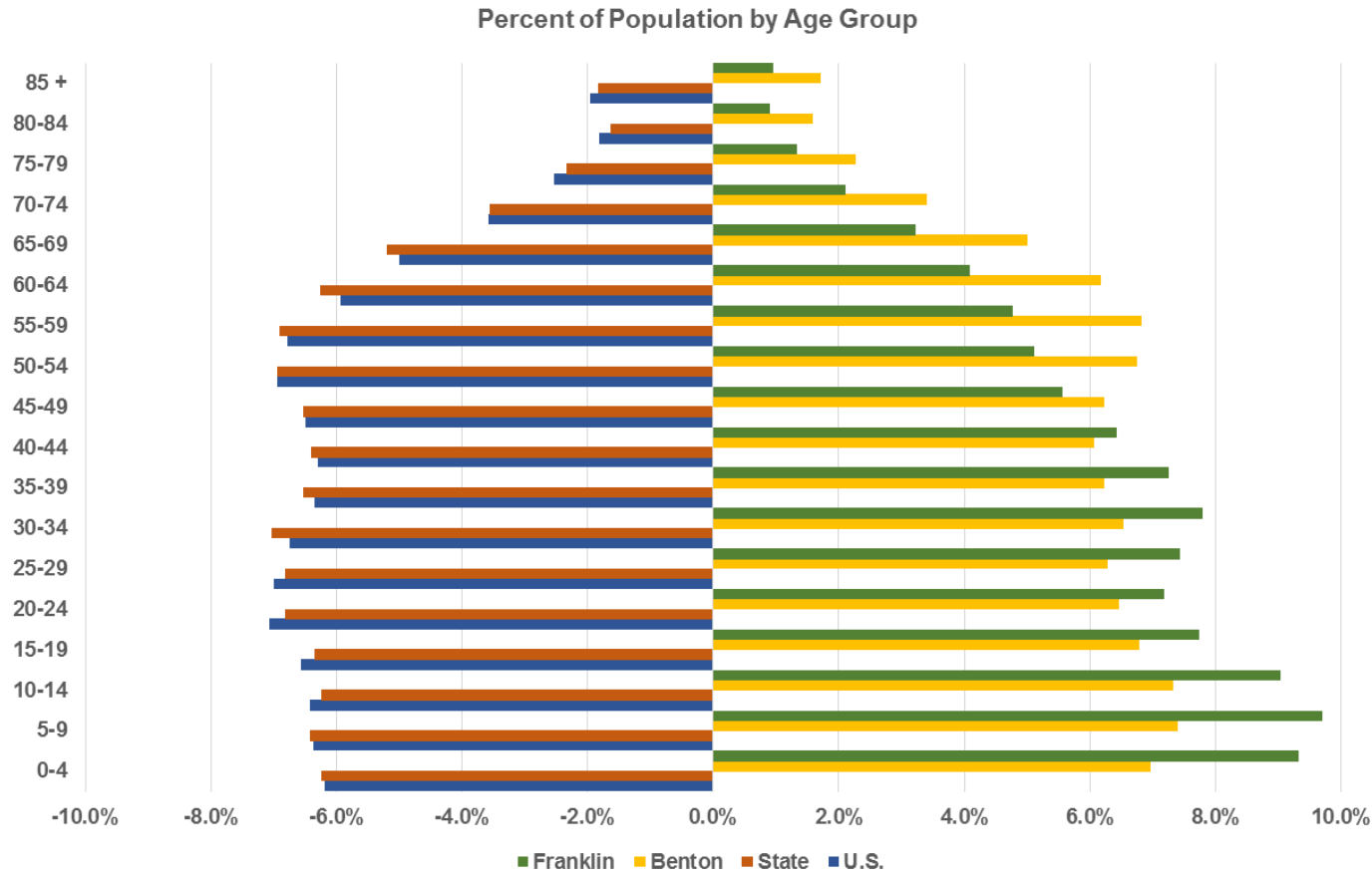
Housing Index (All-transactions)



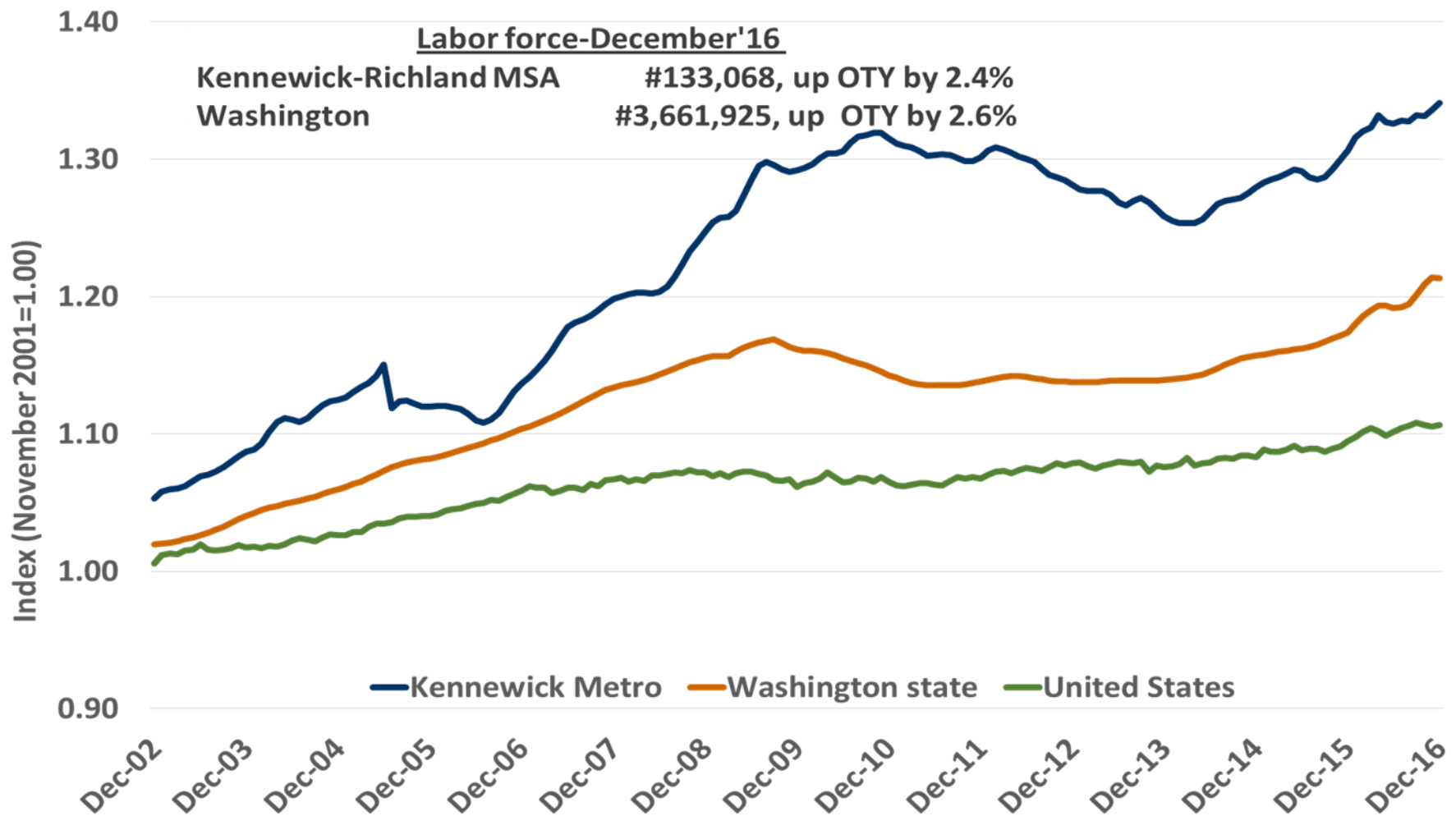
Population



Population distribution by age group

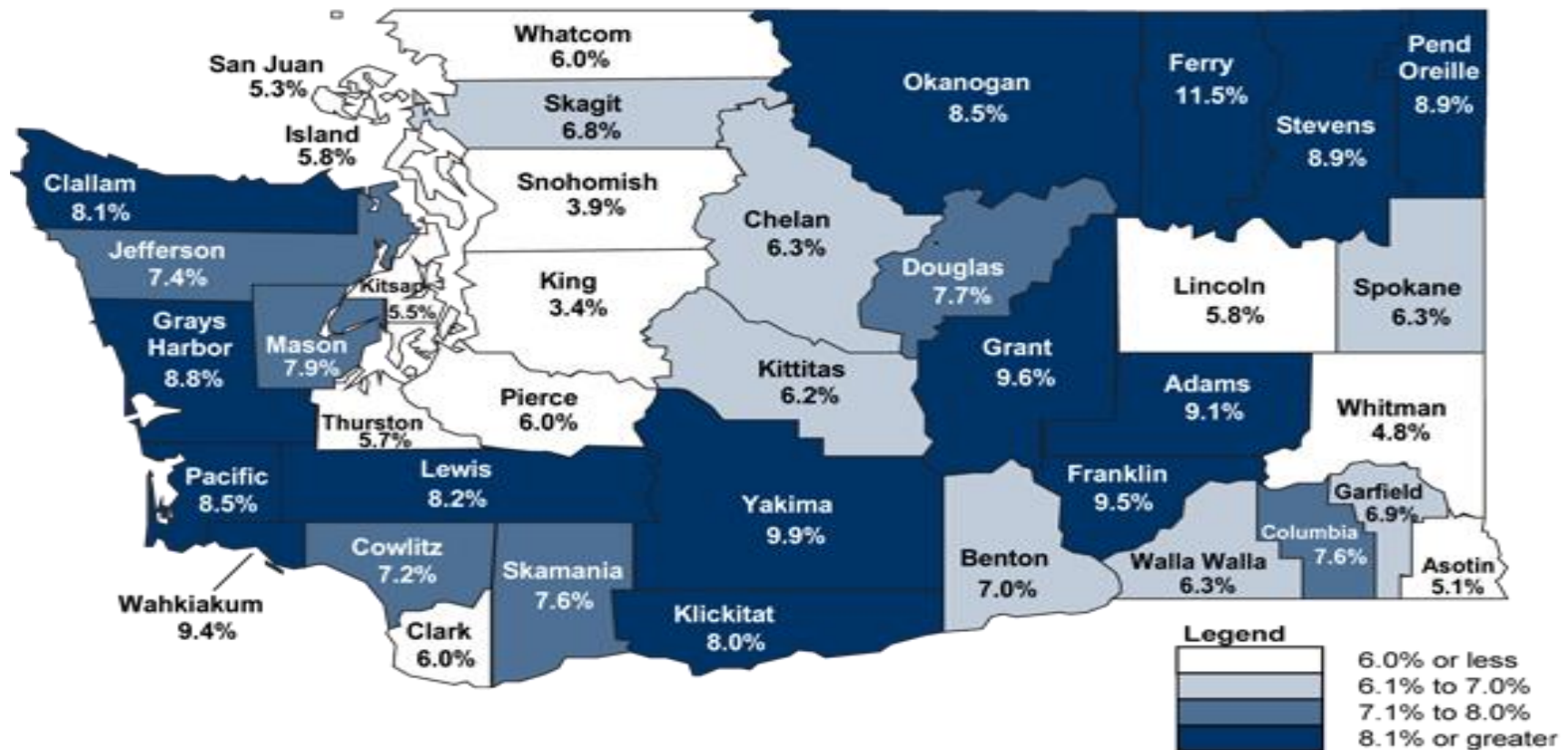


Labor force has recovered as of Jan. '16

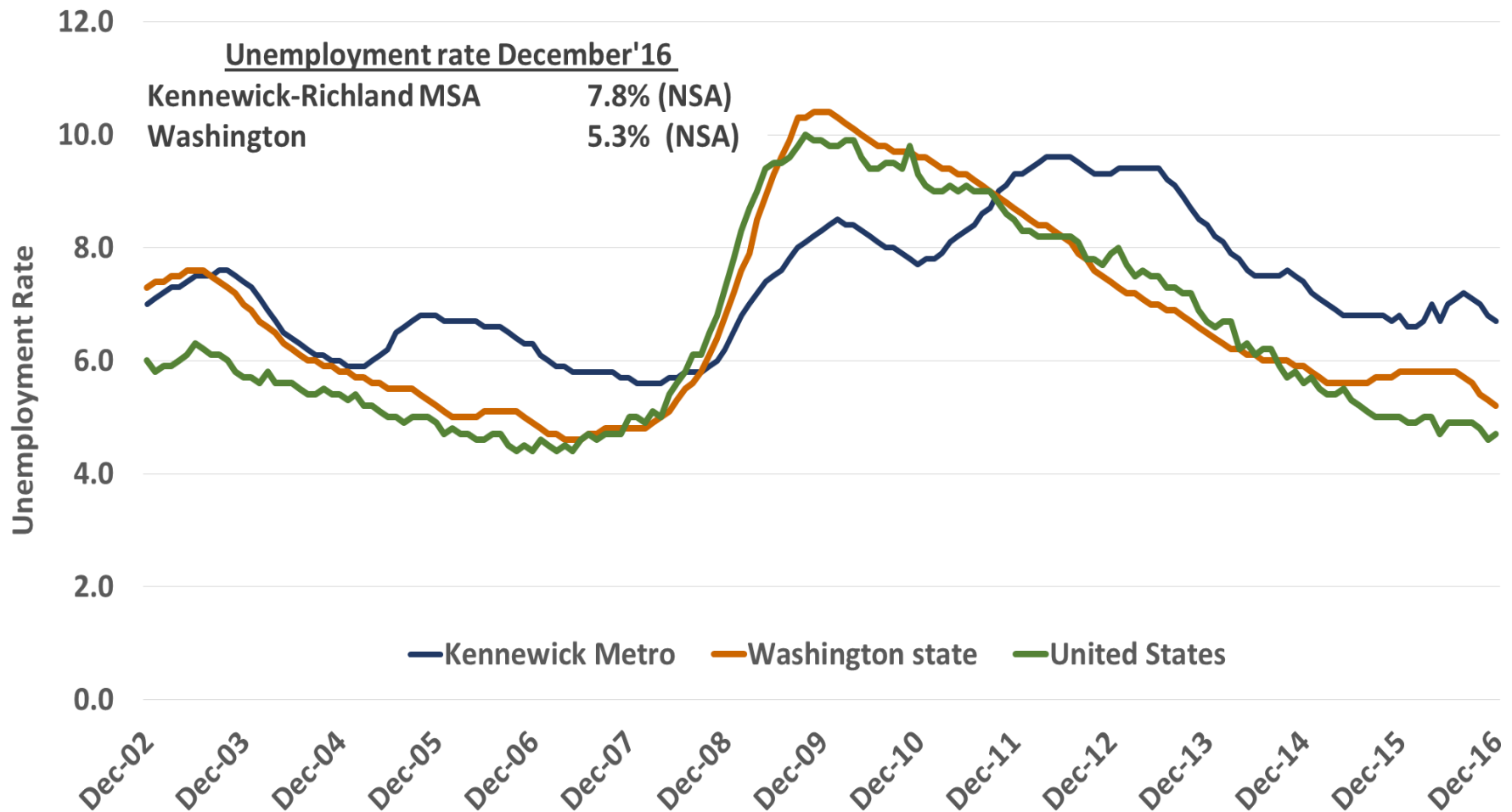


Unemployment around the state

December 2016
County unemployment rates, not seasonally adjusted



Unemployment rate continues to decrease



Outlook for 2017

- Another good year in employment for bi-county area is expected in 2017.
- Labor force rebound to shape the supply and demand and to continue expansion.
- Consumer expended incomes and increased confidence in spending to drive much of the growth for many industries.
- Industries to look for in 2017 are: Healthcare, Education, Construction, Manufacturing, Transportation and Warehousing, and Leisure and Hospitality

Thank you

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Hanford Site Outlook

2017 Tri-Cities Regional Economic Outlook

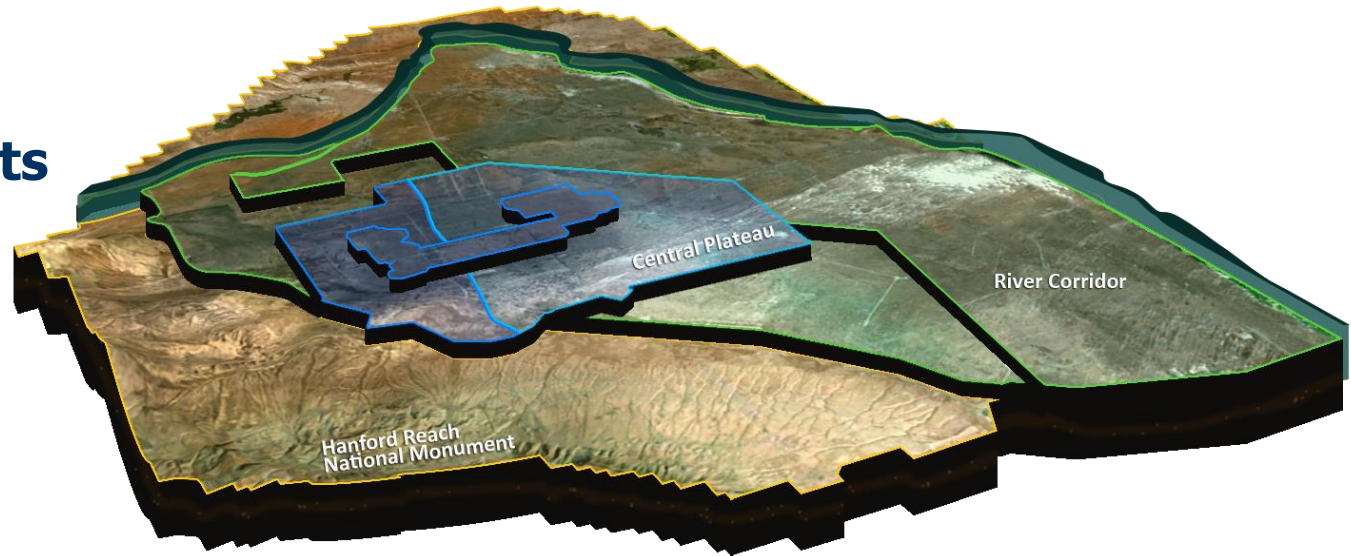
Presented by: **Tom Fletcher, Deputy Manager, Richland Operations Office**



Hanford Cleanup Overview

Three components

- Tank Waste
- Central Plateau
- River Corridor



Cleanup work

- Empty underground tank waste
- Treat waste for safe disposal
- Treat contaminated groundwater
- Demolish facilities
- Remove buried waste, contaminated soil near Columbia for safe disposal away from the river





By The Numbers – Office of River Protection



3.43
million gallons of
waste retrieved from
underground storage tanks



16 single-shell
tanks retrieved to
regulatory
standards



2.2
million gallons tank space
created in double-shell tanks
since 242-A Evaporator
restarted in September, 2014



1.62
million gallons of
waste retrieved
from C Farm tanks



70
million gallons of liquid
removed from DSTs since the
242-A Evaporator began
operations in 1977



1.083
million gallons of
waste retrieved
from S Farm tanks



65 acres – the size of the
WTP complex, which
requires 263,000 cubic
yards of concrete, 41,000
tons of structural steel,
900,000 feet of piping
among other materials





By The Numbers – Richland Operations Office



16

billion gallons of groundwater have been treated, removing 300 tons of contamination

SIX

of Hanford's nine reactors have been "cocooned"



1,303

waste sites have been remediated



TWO

more reactors will be cocooned in the coming years

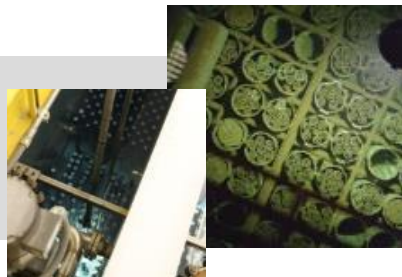


12K

cubic meters of underground waste have been removed

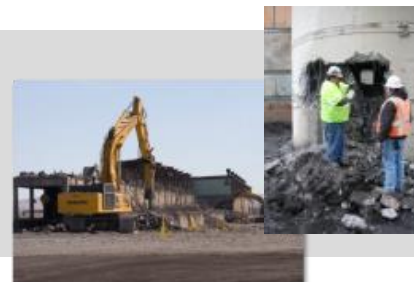
100

percent of the site's spent fuel has been moved to dry storage



877

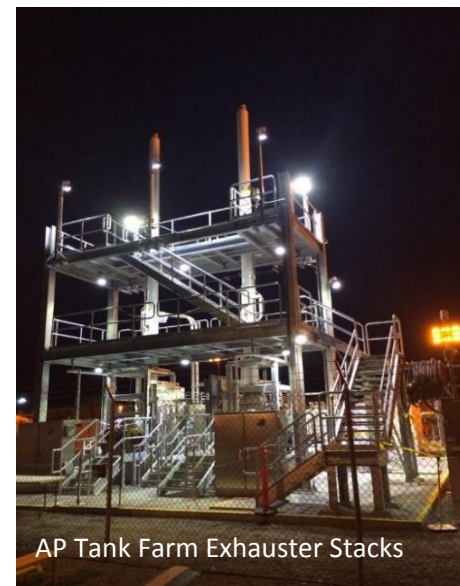
facilities have been demolished





Office of River Protection Progress

- Implemented actions to improve Tank Farms worker safety
- Completed 16th SST retrieval with tank C-111
- Continued infrastructure upgrades to support Tank Farms of the future
- Restarted Effluent Treatment Facility; processed 5 million gallons to date
- Initiated actions to start Direct Feed Low Activity Waste by 2022
- Resumed production engineering at High Level Waste facility



AP Tank Farm Exhauster Stacks



Low Activity Waste Facility
Caustic Scrubber



Liquid Effluent Retention Facility Basins

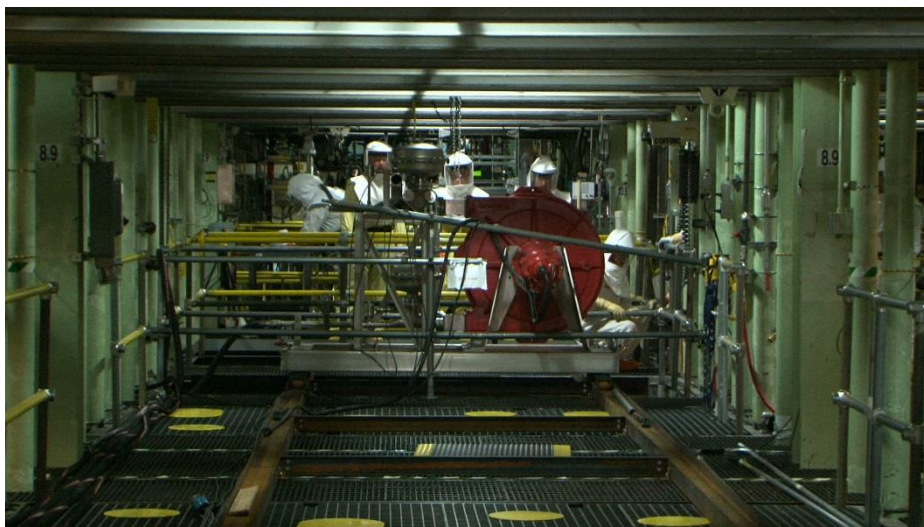
Effluent
Treatment
Facility









Richland Operations Office Progress

- Demolishing the site's most hazardous facility, the Plutonium Finishing Plant
- Treated 2.1 billion gallons of groundwater, removed 90 tons of hazardous and radioactive contamination, last year
- Preparing to move radioactive sludge away from the Columbia River
- Finishing up projects near Columbia River to put full focus on large volume of work in center of Hanford Site





Hanford Prime Contracts

 CH2MHILL Plateau Remediation Company	 MSA	 BECHTEL	 washingtonriver protection solutions
Plateau Remediation Contract PRC	Mission Support Contract MSC	Bechtel National Inc. BNI	Washington River Protection Solutions WRPS
Facility and waste site cleanup groundwater remediation and waste disposal	Cost-effective infrastructure and site services to support the cleanup mission	Design, Construction, and Commissioning of the Hanford Tank Waste Treatment & Immobilization Plant (WTP)	Tank Operations Contract Monitor and manage the 177 underground storage tanks at Hanford, prepare for and provide waste feed delivery to the WTP.
Total Contract Value: \$5.8B <i>Contract Term: 5 year with 5 year option</i>	Total Contract Value: \$3.6B <i>Contract Term: 5 year with 2 and 3 year option</i>	Total Contract Value: \$14.7B	Total Contract Value: \$6.1B <i>Contract Term: 5 year with 3 and 2 year options, ending in September, 2018</i>
<ul style="list-style-type: none">• Total contract fee \$241M• Cost plus award fee based on an annual fee determination composed primarily of multi-year project activities• \$1.3B in ARRA funds added to the contract	<ul style="list-style-type: none">• Total Contract Fee: \$210M• Cost plus award fee with annual performance incentives, including objective and subjective measures	<ul style="list-style-type: none">• Cost-Plus Award-Fee with Award and Multiple Fee Incentives• Total Maximum Available Fee To Go \$360M	<ul style="list-style-type: none">• Total contract fee: \$209M• Cost plus award fee with annual award fee performance measure and multi-year performance incentives; 95% quantitative, 5% qualitative





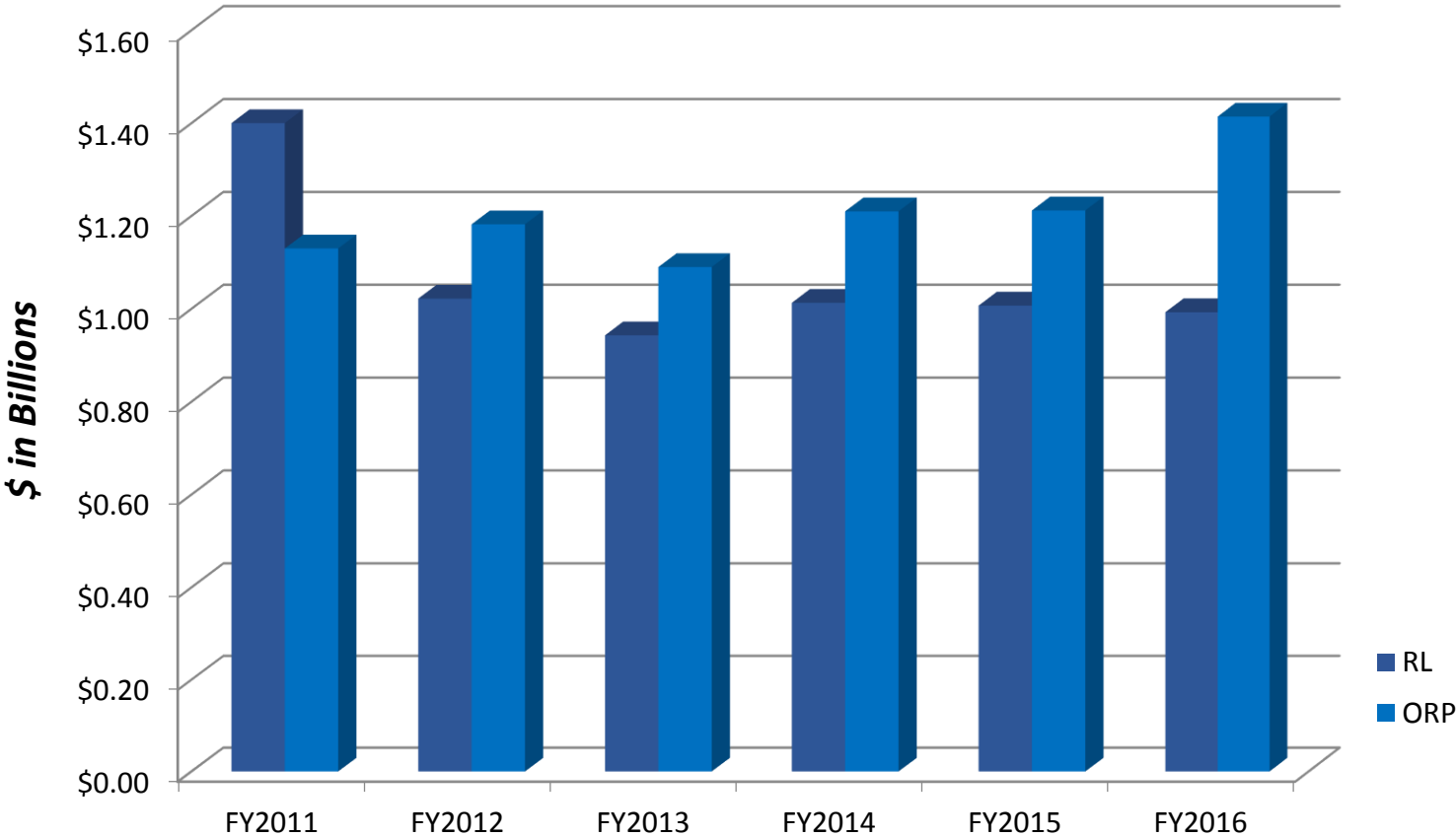
Economic Benefits to Washington

- Hanford Site budget is about \$2.3 billion per year
- DOE prime contractors reported \$626 million of subcontracting in fiscal year 2016
- 9,175 total DOE federal and contractor employees
- Budget outlook
 - Continued need for cleanup at current funding levels in foreseeable future
 - Cleanup mission continues to 2050-2060





Hanford Budget: Recent History and Current





Hanford Site's Future

Hanford Subcontract Spending in Previous Fiscal Years



Hanford Subcontracts, First Quarter, FY2017





Community Impact

- Supporting advanced education programs
 - Welding program at CBC
 - Donation of technology building to WSU
 - Internships
- Donating time, resources
 - Combined Federal Campaign
 - Feds Feed Families
 - Habitat for Humanity
- Support and leadership to local agencies including
 - United Way
 - Junior Achievement
 - TRIDEC
 - Boys & Girls Club
 - Reading Foundation





Plutonium Finishing Plant



Current footprint

Future footprint





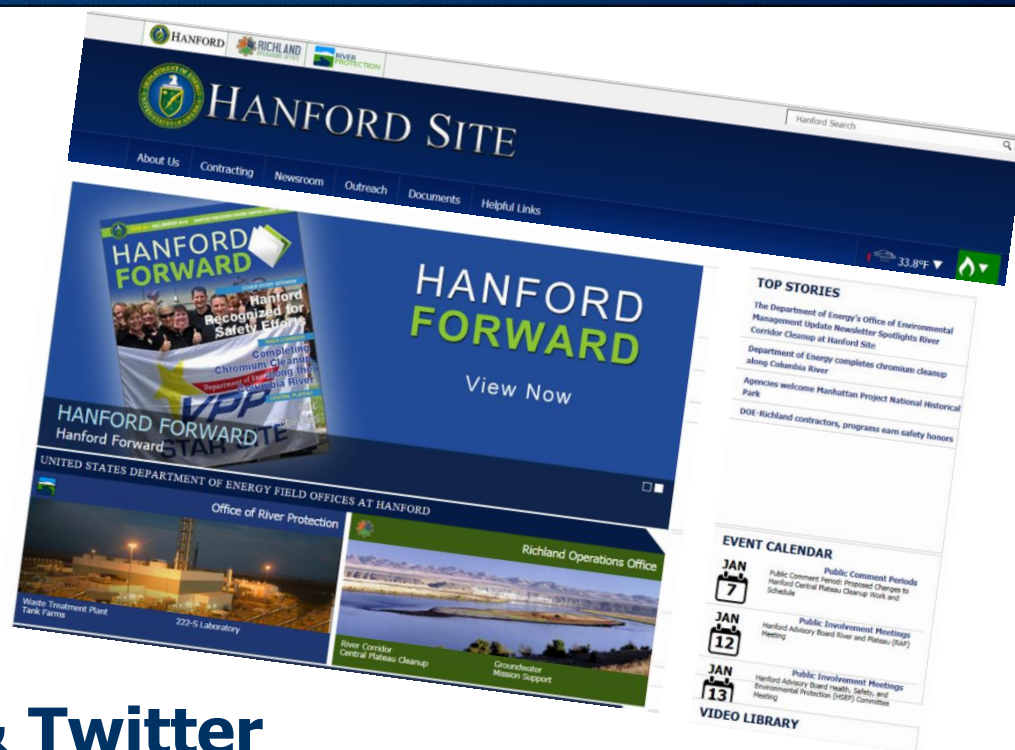
Tank Retrievals





**Visit www.Hanford.gov
to learn about**

- News on Hanford Cleanup
- Hanford Advisory Board
- Opportunities to comment on decisions
- Public events & cleanup tours



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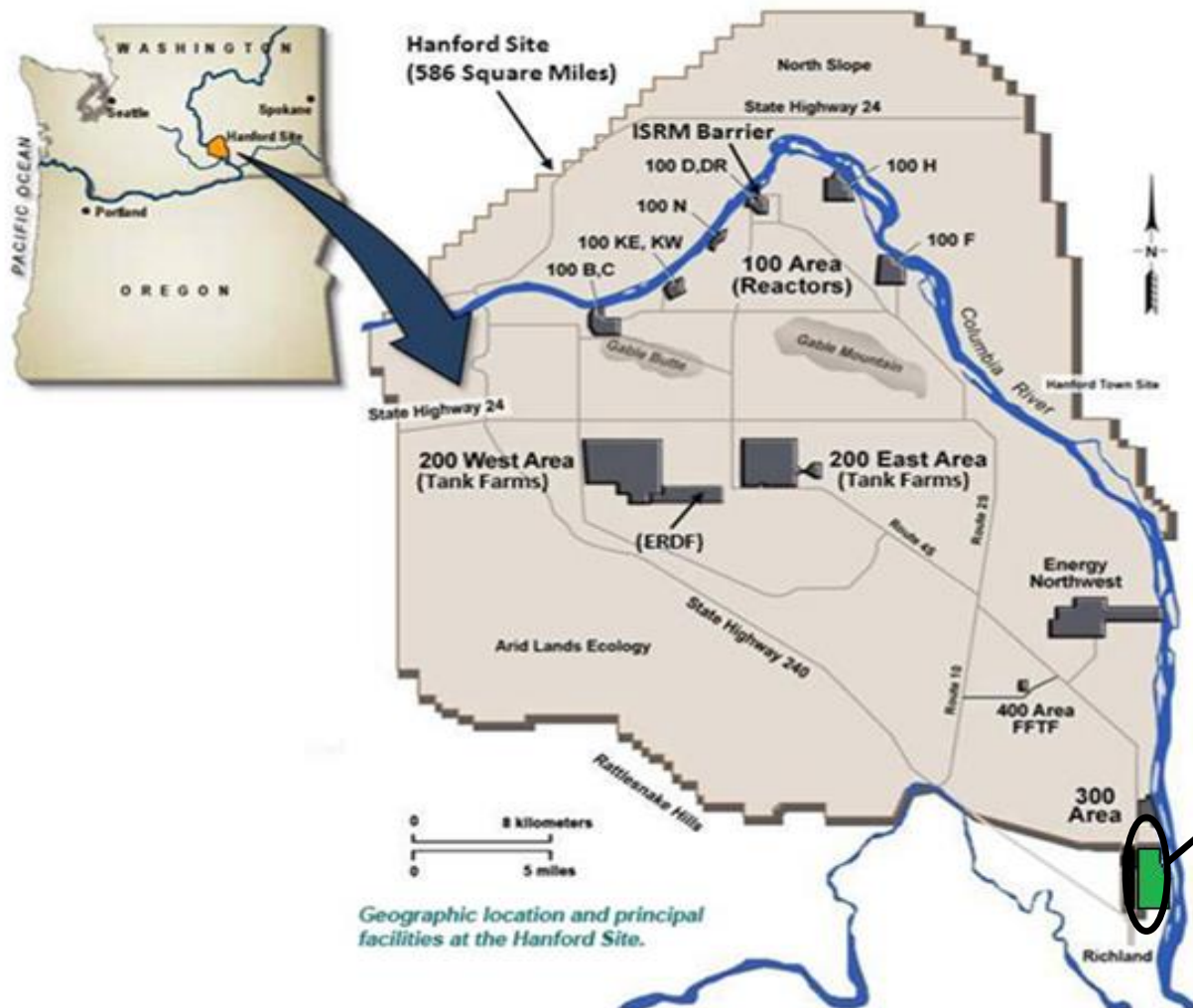


U.S. DEPARTMENT OF
ENERGY

PACIFIC NORTHWEST
SITE OFFICE

Roger Snyder, Site Office Manager
1 February, 2017 TRIDEC Economic Outlook

Three Offices Three Missions



Geographic location and principal facilities at the Hanford Site.

- Hanford Site
- HAMMER



- Waste Treatment Plant
- Tank Waste



- PNNL



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ENERGY

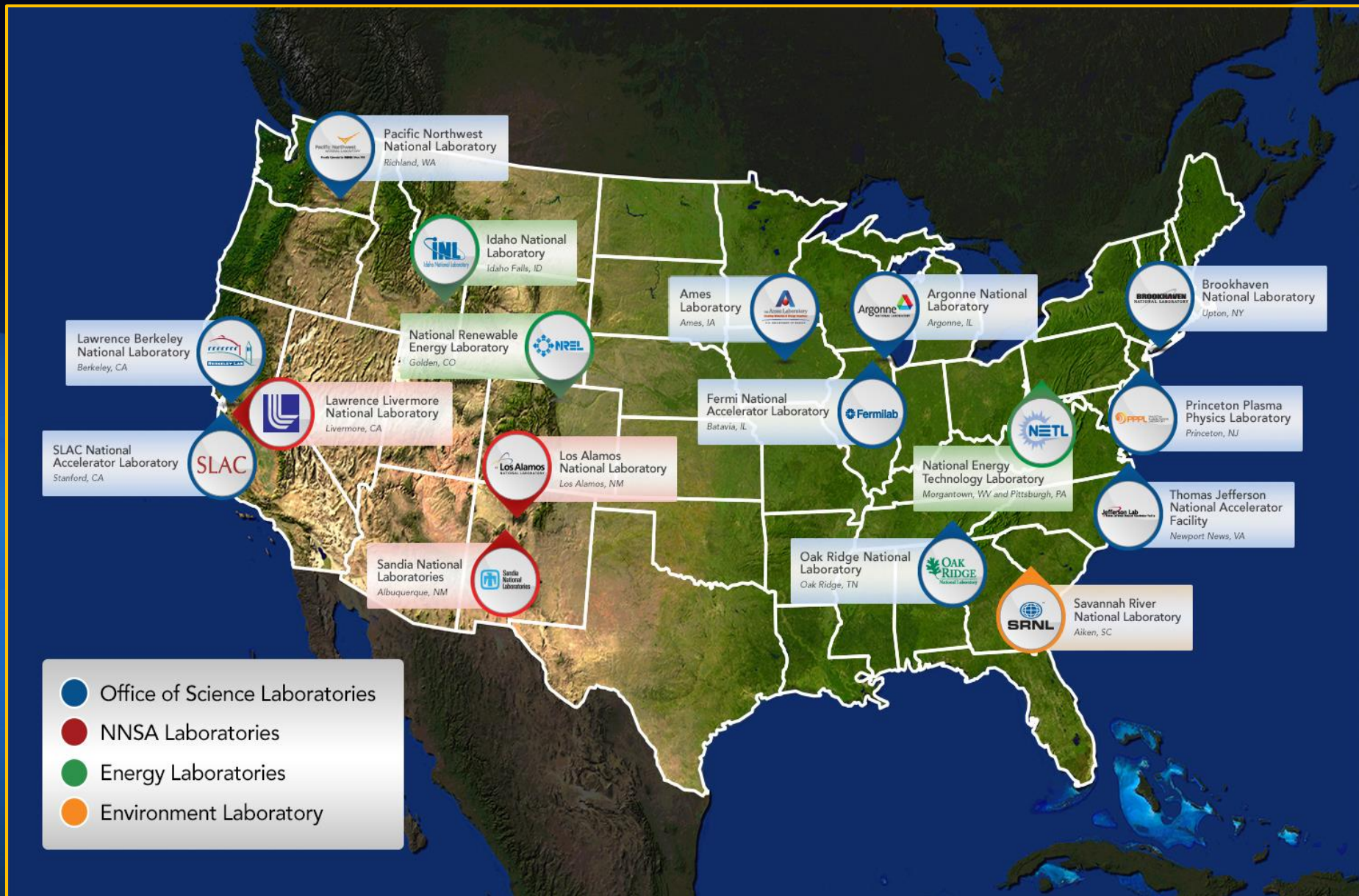
Pacific Northwest
Site Office



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PNNL leverages a strong science base to provide national leadership



Grid

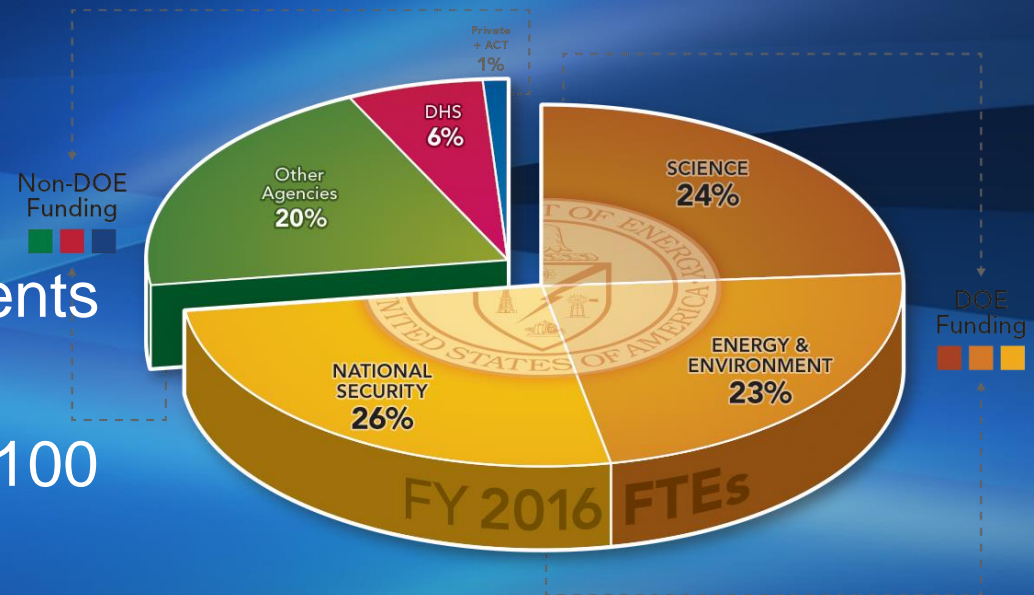
Climate

Nonproliferation

Remediation

FY16 At A Glance

- 4,400 scientists, engineers and non-technical staff
- \$920.4M in R&D expenditures
- 104 U.S. & foreign patents granted
- 2 FLC Awards, 2 R&D 100
- 1,058 peer-reviewed publications



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PNNL Across the Region



Sequim



Seattle



Richland
MAIN CAMPUS



Portland, OR



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Pacific Northwest
NATIONAL LABORATORY

Partnering to increase impact

- ▶ Building strategic academic alliances, especially with UW and WSU
- ▶ Strengthening PNNL's presence in—and raising the visibility of—the Northwest region
- ▶ Working with DOE and industry to move technology to market



State investments enable new opportunities for collaboration



Using our capabilities to enable sustainable hydroelectricity

Partnering with BPA and the Army Corps of Engineers to study fish behavior and survivability for next-generation turbine design



Increasing Awareness and External Engagement

- To better inform and engage community stakeholders regarding PNNL, what action or events would you find the most impactful?
 - A. Community Open House
 - B. More Community Lecture Series Events
 - C. Increased Social Media Presence and Updates
 - D. Science and Technology Mission Seminars



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Furnishing Facilities of the Future



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Pacific Northwest
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Pacific Northwest Site Office



We provide support for world leading science
conducted by PNNL



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