



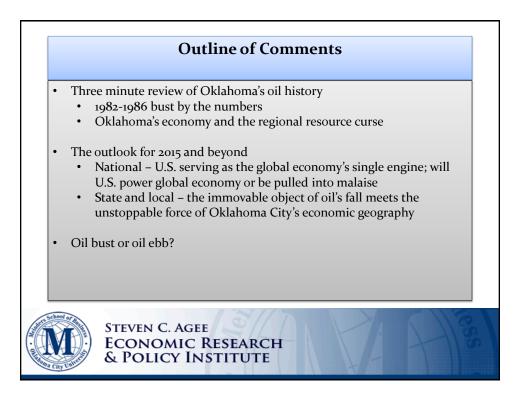


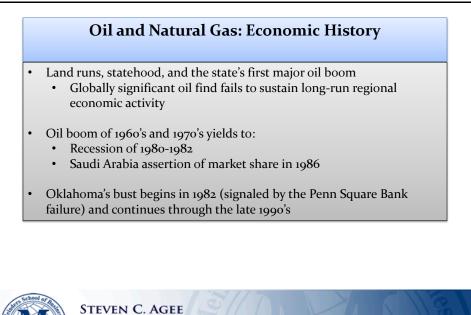


Oklahoma's Energy Industry and the State Economy: Where have we been? Where are we now? Where are we going?

Russell R. Evans, PhD Executive Director, Steven C. Agee Economic Research and Policy Institute Meinders School of Business Oklahoma City University









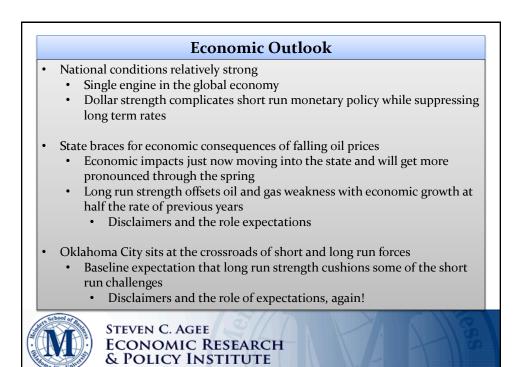
ECONOMIC RESEARCH & POLICY INSTITUTE

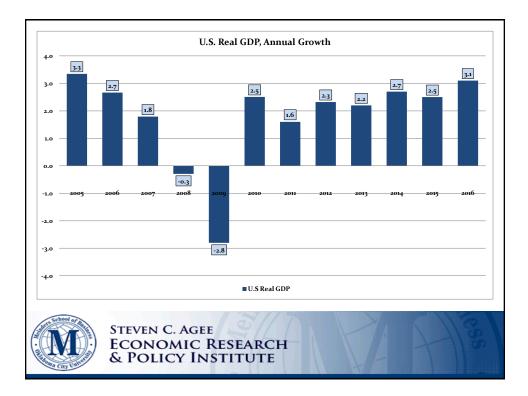
			Gross State	Product a	nd Mining Share	e	
	Real	Gross State			U		
		uct (Base =	Percent Change from	Real Gross	State Product from	Percent Change from	Mining GSP as a Share of
Year		1990)	Peak		ector (Base = 1990)	Peak	State Total GSP
1975	\$	40,362.25		\$	3,837.78		9.5%
1976	\$	43,864.53		\$	4,575.63		10.4%
1977	\$	47,520.62		\$	6,211.59		13.1%
1978	s	50,109,26		s	6.472.33		12.9%
1979	ŝ	53,569,60		ŝ	6.872.38		12.8%
1980	ŝ	57.671.34		ŝ	10,495,18		18.2%
1981	ŝ	63.951.87		ŝ	14.034.78		21.9%
1982	\$	65,791.42		ŝ	14,255.67		21.7%
1983	ŝ	61,008.87	-7%	ŝ	11,171.93	-22%	18.3%
1984	ŝ	63,209.27	-4%	ŝ	11,007.49	-23%	17.4%
1985	ŝ	62,802.69	-5%	ŝ	9,876.56	-31%	15.7%
1986	ŝ	57,082.66	-13%	ŝ	5,830.94	-59%	10.2%
1987	ŝ	55,460.86	-16%	ŝ	5,392.89	-62%	9.7%
1988	ŝ	57.311.69	-13%	ŝ	5.159.11	-64%	9.0%
1989	ŝ	57,388.22	-13%	ŝ	4,732.36	-67%	8.2%
1990	ŝ	57,805.00	-12%	ŝ	4,771.00	-67%	8.3%
1991	ŝ	57,737.83	-12%	ŝ	3,699.63	-74%	6.4%
1992	ŝ	58,681.44	-11%	ŝ	3,120.42	-78%	5.3%
1993	ŝ	60,328.75	-8%	ŝ	3,356.40	-76%	5.6%
1994	ŝ	61.532.88	-6%	ŝ	3,066,23	-78%	5.0%
1995	ŝ	62,584.95	-5%	ŝ	3,043.62	-79%	4.9%
1996	ŝ	66,000.18		ŝ	4,158.96	-71%	6.3%
1997	ŝ	68,952,30		ŝ	4,533.00	-68%	6.6%
1998	ŝ	67,118.65		ŝ	3.086.17	-78%	4.6%
1999	ŝ	67.266.50		ŝ	2.257.40	-84%	3.4%
2000	ŝ	69.121.31		ŝ	2,362.40	-83%	3.4%
2000	ŝ	73,202.48		š	3,658.81	-74%	5.0%
2002	ŝ	76,904.61		ŝ	4,726.19	-67%	6.1%
2002	ŝ	76,796.98		ŝ	4,338.67	-70%	5.6%
2005	ŝ	80,046.29		ŝ	6,094.83	-57%	7.6%
2004	s	83,905,25		s	7.774.54	-45%	9.3%
2005	ŝ	89.848.33		s	10.862.45	-24%	12.1%
2000	ŝ	96,481.83		s	12,940,55	-24%	13.4%
2008	ŝ	99,494.86		ŝ	14,550.25	270	14.6%
2003	ŝ	108,311.44		ŝ	19,005.60		17.5%
2010	s	97,513.01	-10.0%	s	11,544.04	-39%	11.8%
2010	s	99,819.13	-7.8%	s	12,964.14	-32%	13.0%
2011	s	105,236.23	-2.8%	s	15,292.03	-20%	14.5%
2012	ŝ	107,835.32	-0.4%	s	13,732.28	-28%	12.7%

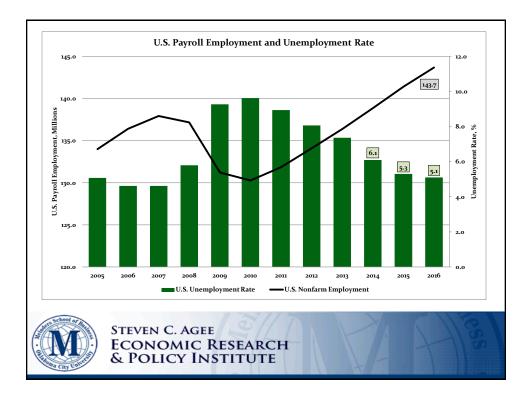
	State	e Total and Mining E	mployment	
	Total State Full and Part-	State Mining Full and	Mining Employment as a Share	
Year	Time Employment	Part-Time Employment	of Total Employment	Change from Peak
1975	1,268,539	53,461	4.21%	
1976	1,305,470	58,747	4.50%	
1977	1,359,195	65,545	4.82%	
1978	1,428,087	74,698	5.23%	
1979	1,481,253	85,413	5.77%	
1980	1,547,367	106,338	6.87%	
1981	1,625,130	144,858	8.91%	
1982	1,673,226	158,207	9.46%	
1983	1,637,587	134,529	8.22%	-15.0%
1984	1,665,397	130,152	7.82%	-17.7%
1985	1,647,651	125,841	7.64%	-20.5%
1986	1,588,059	101,009	6.36%	-36.2%
1987	1,598,762	95,206	5.95%	-39.8%
1988	1,608,236	88,230	5.49%	-44.2%
1989	1,622,640	83,964	5.17%	-46.9%
1990	1,654,743	81,643	4.93%	-48.4%
1991	1,668,179	79,443	4.76%	-49.8%
1992	1,680,022	70,933	4.22%	-55.2%
1993	1,715,718	67,104	3.91%	-57.6%
1994	1,748,232	69,316	3.96%	-56.2%
1995	1,799,650	62,994	3.50%	-60.2%
1996	1,849,559	56,455	3.05%	-64.3%
1997	1,896,861	60,338	3.18%	-61.9%
1998	1,938,882	58,394	3.01%	-63.1%
1999	1,953,977	56,337	2.88%	-64.4%
2000	1,993,644	54,930	2.76%	-65.3%
2001	2,010,657	59,061	2.94%	-62.7%
2002	1,989,192	53,694	2.70%	-66.1%
2003	1,973,202	61,487	3.12%	-61.1%
2004	1,997,468	58,261	2.92%	-63.2%
2005	2,041,230	63,719	3.12%	-59.7%
2006	2,098,663	73,359	3.50%	-53.6%
2007	2,154,646	81,686	3.79%	-48.4%
2008	2,193,652	101,125	4.61%	-36.1%
2009	2,146,748	91,574	4.27%	-42.1%
2010	2,135,440	105,291	4.93%	-33.4%
2011	2,166,127	102,659	4.74%	-35.1%
2012	2,224,002	131,845	5.93%	-16.7%
2013	2,254,523	137,213	6.09%	-13.3%

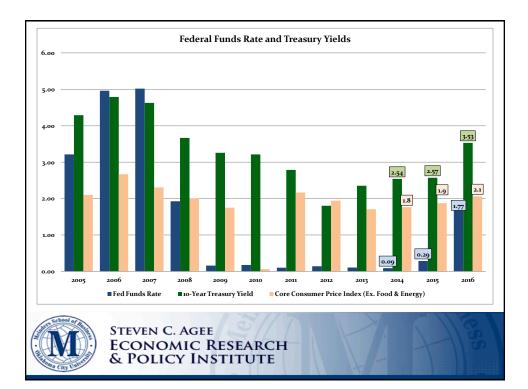
Figure 3: Oil and Natural Gas Economic Profile in Contex	t
Oil and Natural Gas Wage and Salary Employment as a Share of Total Private Employment, 2012	4.7%
Oil and Natural Gas Wage and Salary Growth Since 2010 as a Share of Total Private Employment Growth	21.4%
Oil and Natural Gas Earnings as a Share of State Total Private Sector Earnings	17.0%
Oil and Natural Gas Value Added (GSP) as a Share of State Total Private Value Added (GSP)	14.9%
Oil and Natural Gas per Employee Compensation Relative to Total Private Sector per Employee Compensation	2.1
Growth Rate of Oil and Natural Gas per Employee Compensation relative to Total Private Growth Rate of per Employee Compensation, 2001-2012	1.3
Value Added per Employee 2012, Oil and Natural Gas Relative to Total Private	2.5

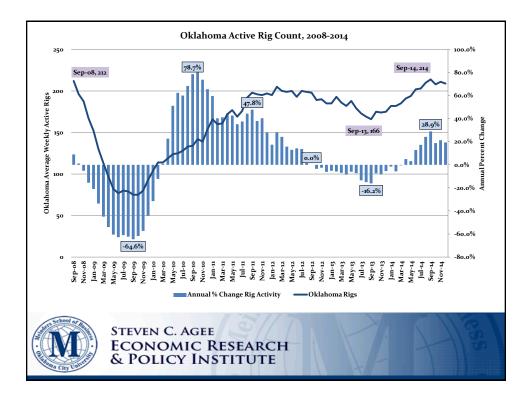


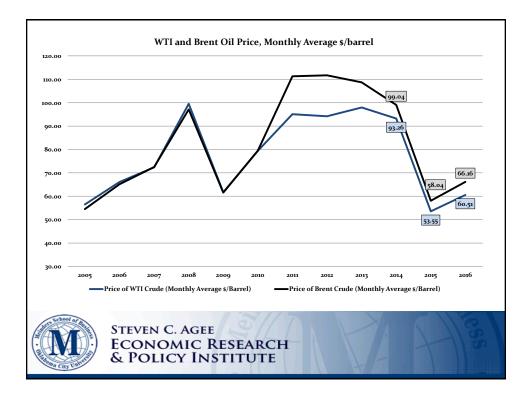


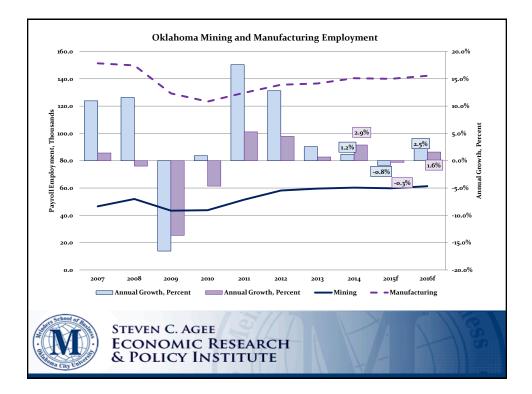












	Growth Trei	nds: Majo	or Employ	yment Se	ctors Oklahon	ma		
Annual Growth	2011	2012	2013	2014	10-Year Average 2005-2014	Pre- Recession Average 2005-2008	Post- Recession Average 2011-2014	2015
Nonfarm	1.4%	2.3%	1.2%	1.9%	1.1%	2.1%	1.7%	0.9%
Private	2.2%	2.7%	1.4%	2.4%	1.1%	2.1%	2.2%	1.0%
Mining	17.6%	12.8%	2.6%	1.2%	6.9%	12.5%	8.5%	-0.8%
Construction	1.9%	3.1%	5.8%	3.7%	2.2%	4.8%	3.6%	2.3%
Leisure and Hospitality	2.8%	3.0%	3.2%	4.9%	2.1%	2.2%	3.5%	3.0%
Manufacturing	5.3%	4.5%	0.7%	2.9%	0.0%	1.3%	3.3%	-0.3%
Trade, Transport, Utilities	1.9%	2.7%	1.4%	2.2%	0.9%	1.3%	2.1%	1.5%
Professional/Business Svcs.	2.1%	2.1%	1.2%	0.9%	1.2%	3.0%	1.6%	-0.5%
Education and Health	0.6%	1.4%	0.4%	2.3%	1.7%	2.3%	1.2%	1.9%
Financial Activities	-0.6%	o.8%	1.0%	3.0%	-0.1%	-0.2%	1.0%	1.4%
Government	-1.3%	0.9%	0.3%	-0.2%	1.2%	2.1%	-0.1%	0.5%
Other Services	-3.0%	-0.3%	-0.7%	2.0%	-0.3%	1.0%	-0.5%	1.3%
Information	-5.3%	-2.2%	-3.1%	-3.4%	-3.8%	-1.9%	-3.5%	-2.6%



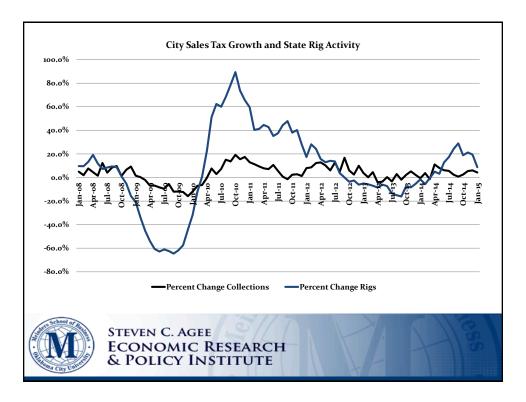
Year	2011	2012	2013	2014	10-Year Average	4-Year Average (Post Recession)	4-Year Average (2005- 2008)	2015
Nonfarm	2.3%	2.4%	2.2%	3.0%	1.4%	2.5%	1.7%	1.7%
Private	3.0%	2.9%	2.2%	3.2%	1.4%	2.8%	1.7%	1.7%
Mining	18.9%	15.3%	2.6%	0.9%	8.9%	9.4%	15.2%	-2.0%
Leisure and Hospitality	4.2%	2.8%	4.7%	8.8%	2.8%	5.1%	1.7%	3.7%
Construction	2.8%	2.3%	2.6%	12.2%	2.8%	5.0%	4.2%	5.6%
Manufacturing	6.1%	6.7%	3.1%	-0.1%	-0.6%	4.0 %	-1.3%	-0.8%
Trade, Transport, Utilities	2.9%	2.9%	3.7%	3.0%	1.3%	3.1%	1.0%	1.8%
Financial Activities	-0.6%	3.1%	1.8%	5.4%	0.2%	2.4%	-0.9%	2.5%
Education and Health Services	1.4%	2.4%	1.7%	2.8%	2.0%	2.1%	2.6%	2.7%
Professional Business Services	3.6%	1.2%	o.8%	-1.0%	1.2%	1.2%	3.1%	-0.3%
Government	-0.2%	0.7%	2.1%	1.9%	1.3%	1.1%	1.4%	1.6%
Other Services	0.0%	-1.3%	-3.1%	-1.1%	-o.8%	-1.4%	0.8%	-2.8%
Information	-6.3%	-4.4%	-5.8%	-2.3%	-5.2%	-4.7%	-2.6%	-2.5%



Steven C. Agee Economic Research & Policy Institute

I	l-35 Corridor Cities: Nonfa	arm Payroll Growth		
City	1991-2011	2012	2013	2014
Austin	3.5%	3.4%	4.5%	3.7%
Houston	2.0%	3.2%	3.5%	3.6%
Dallas	1.9%	2.7%	2.6%	3.5%
Oklahoma City	1.4%	2.3%	2.2%	2.9%
San Antonio	2.2%	2.0%	2.8%	2.4%
Sherman-Dennison	0.6%	0.7%	2.3%	1.6%
Tulsa	1.1%	1.1%	1.5%	1.5%
Kansas City	1.2%	2.0%	1.0%	o.6%





Date	Percent Change, Monthly Collections	Percent Change, Monthly Rig Activity	
Nov-o8	6.6%	-5.1%	
Dec-o8	9.3%	-15.7%	
Jan-09	1.6%	-20.8%	
Feb-09	0.4%	-33.7%	
Mar-09	-2.2%	-45.1%	
Apr-09	-6.8%	-54.0%	
May-09	-6.9%	-60.6%	
Jun-09	-8.4%	-62.8%	
Jul-09	-9.6%	-61.0%	
Aug-09	-5.5%	-62.4%	
Sep-09	-12.1%	-64.6%	
Oct-09	-11.8%	-61.7%	
Nov-09	-12.3%	-57.4%	
Dec-09	-15.8%	-44.3%	
Jan-10	-12.0%	-31.6%	
Feb-10	-7.2%	-12.3%	
Collections Lag: 4	months		
werage Monthly (Change in Collections: -9.2%		
School of p			

Date	Percent Change, Monthly Collections	Percent Change, Monthly Rig Activity
Oct-12	6.0%	-3.6%
Nov-12	2.5%	-2.6%
Dec-12	9.9%	-6.1%
Jan-13	3.9%	-5.1%
Feb-13	0.2%	-5.9%
Mar-13	4.5%	-7.0%
Apr-13	-4.1%	-8.5%
May-13	-3.4%	-6.0%
Jun-13	0.3%	-7.3%
Jul-13	-3.4%	-13.5%
Aug-13	2.9%	-15.1%
Sep-13	-1.9%	-16.2%
Oct-13	2.2%	-7.4%
Nov-13	5.2%	-8.4%
Dec-13	2.2%	-5.4%
Jan-14	-0.6%	-1.6%
Feb-14	3.8%	-5.7%
Mar-14	-1.4%	-0.5%
Collections Lag:	6 months	
	Change in Collections: 0.1%	

	Collecti	ons by Fisca	l Year	
			Annual Collections -	
T. 137	Annual Collections -	Percent	Short Run	Percent
Fiscal Year	Mixed View	Change	Dominates	Change
2011-2012	\$388,090,022	5.65%	\$388,090,022	5.65%
2012-2013	\$404,860,420	4.32%	\$404,860,420	4.32%
2013-2014	\$415,869,344	2.72%	\$415,869,344	2.72%
2014-2015	\$428,304,570	2.99%	\$425,419,364	2.30%
2015-2016	\$437,499,116	2.15%	\$427,747,071	0.55%

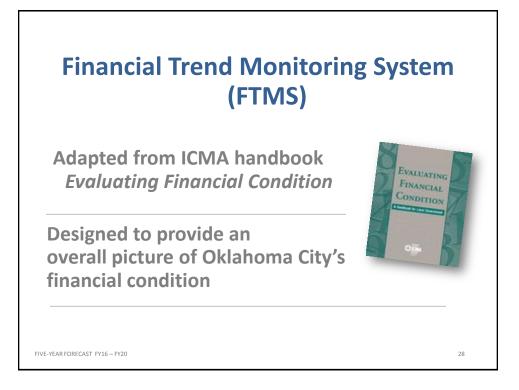


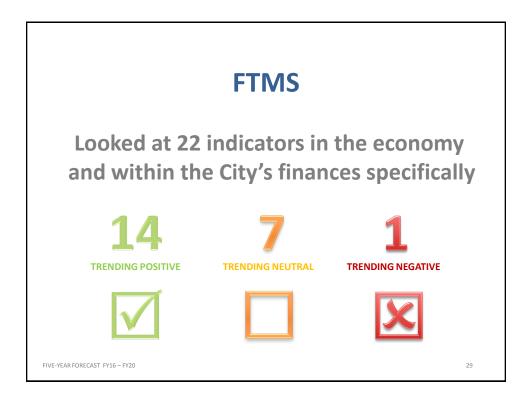
STEVEN C. AGEE ECONOMIC RESEARCH & Policy Institute

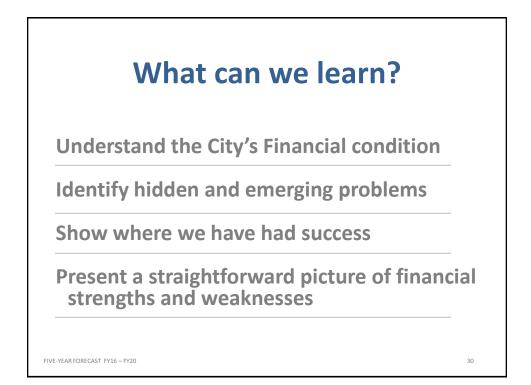
Collections by Fiscal Year					
Monthly Detail	Annual Collections - Mixed View	Percent Change	Annual Collections - Short Run Dominates	Percent Change	
Mar-15	\$33,297,636	4.5%	\$32,985,632	3.5%	
Apr-15	\$34,423,740	0.0%	\$33,520,564	-2.6%	
May-15	\$35,670,577	0.5%	\$35,031,171	-1.3%	
Jun-15	\$35,123,957	1.0%	\$34,014,422	-2.2%	
Jul-15	\$36,026,977	1.8%	\$35,080,072	-0.8%	
Aug-15	\$36,594,263	2.1%	\$35,752,425	-0.2%	
Sep-15	\$36,811,365	3.4%	\$35,887,775	o.8%	
Oct-15	\$37,354,870	1.7%	\$36,628,063	-0.3%	
Nov-15	\$36,013,256	0.1%	\$35,238,102	-2.1%	
Dec-15	\$35,791,538	-1.3%	\$35,049,557	-3.3%	
Jan-16	\$37,487,446	3.1%	\$36,837,678	1.3%	
Feb-16	\$38,311,556	1.9%	\$37,602,628	-0.2%	
Mar-16	\$34,344,301	3.1%	\$33,675,899	2.1%	
Apr-16	\$35,445,977	3.0%	\$34,566,559	3.1%	
May-16	\$36,846,491	3.3%	\$35,931,803	2.6%	
Jun-16	\$36,471,076	3.8%	\$35,496,510	4.4%	
ource Steven C Agee	Economic Research and Pol	icy Institute			

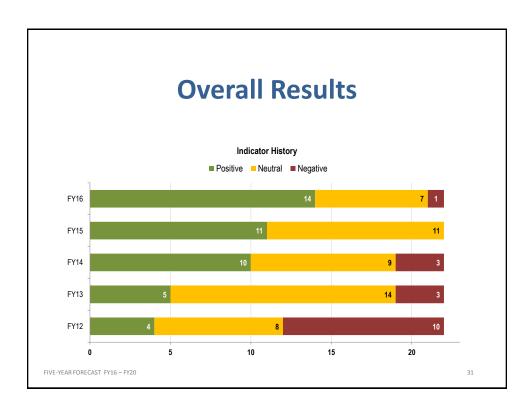
	Conclusions (more questions than answers)
•	 Economic profile of the oil and natural gas industry is expanding both in absolute terms and in terms of relative importance to the state's economic health Creates concern of exposure to economic weakness from price collapse Extent of economic weakness will be governed by producer expectations of the future price path of oil
•	 U.S. is the world's only fully functioning economy and signs of weakness are developing (poor earnings, decline in pace of manufacturing output, decline in durable goods orders, etc.) Can we power the global economy or will we get pulled into malaise
•	Oil and gas has powered the state's economy out of recessionCan rural opportunities absorb released oil and gas labor force?
•	 Oklahoma City's economic geography offers long-run strength to support local economic activity Can long-run forces of strength offset short-run forces of weakness? Can this be the year of the oil ebb?
	STEVEN C. AGEE ECONOMIC RESEARCH & POLICY INSTITUTE

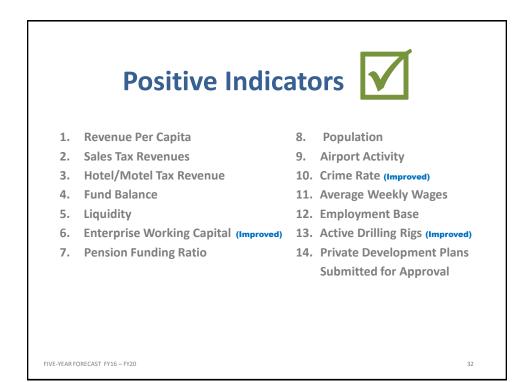


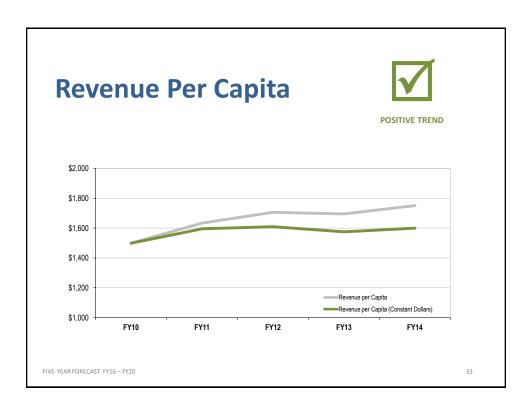


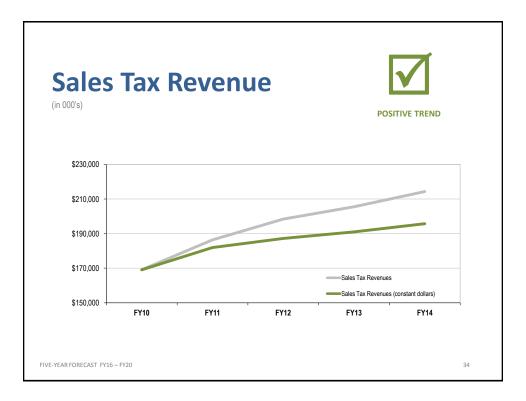


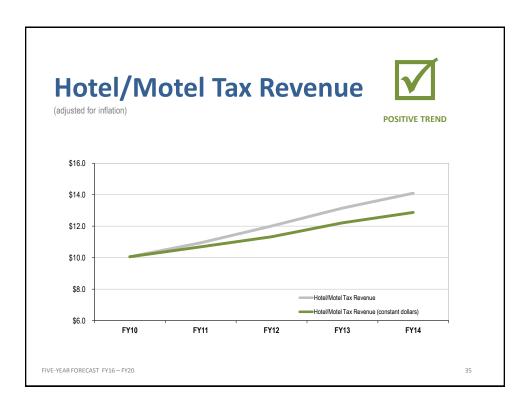


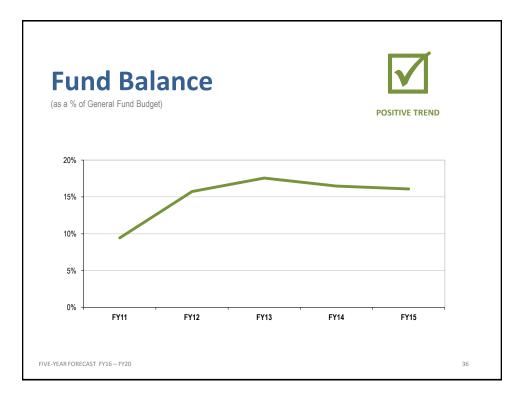


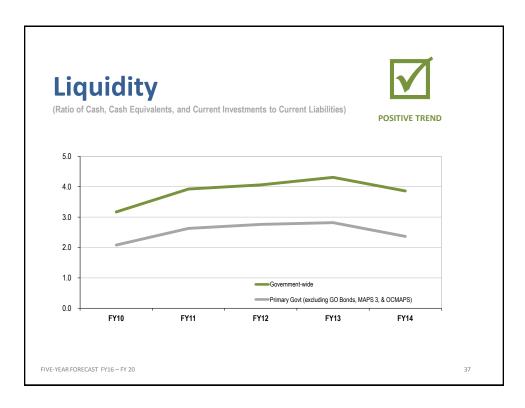


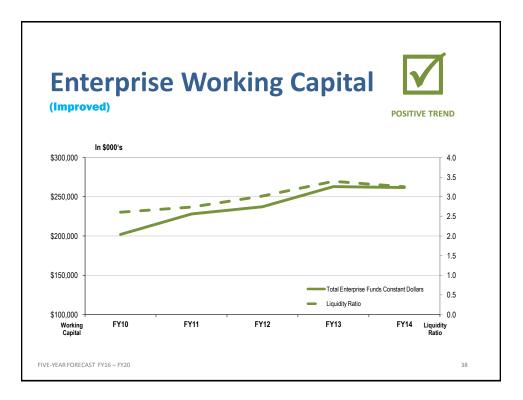


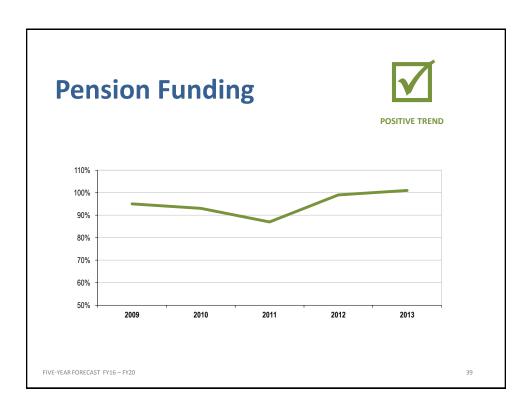


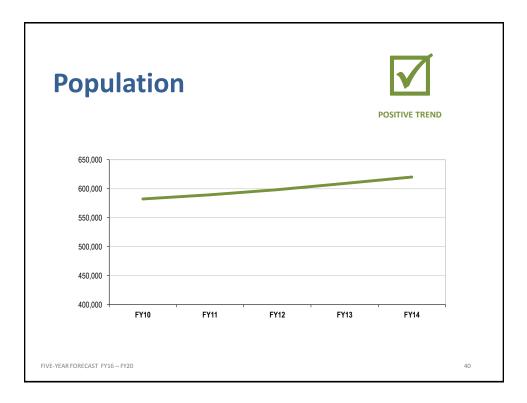




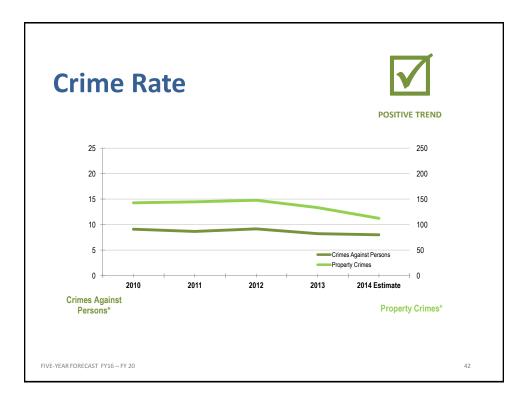


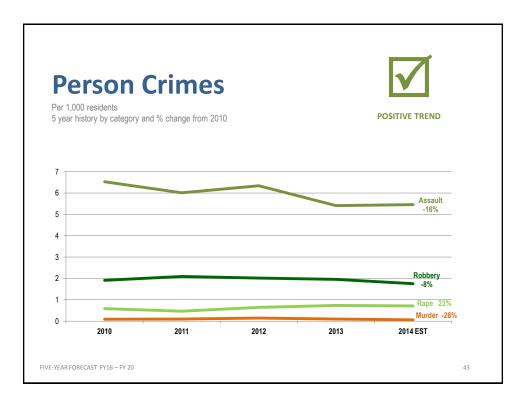




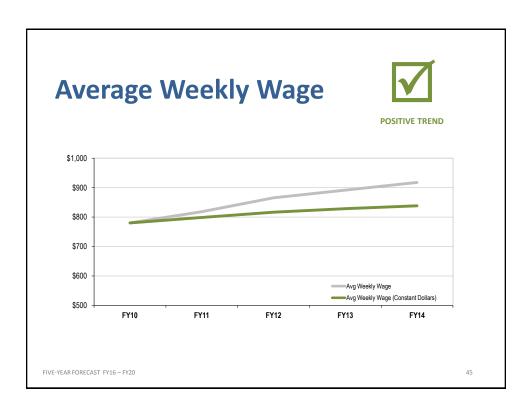


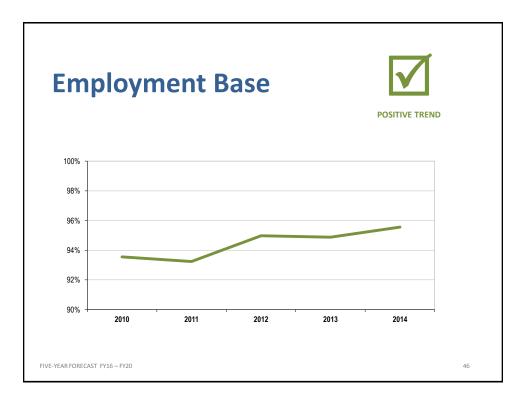


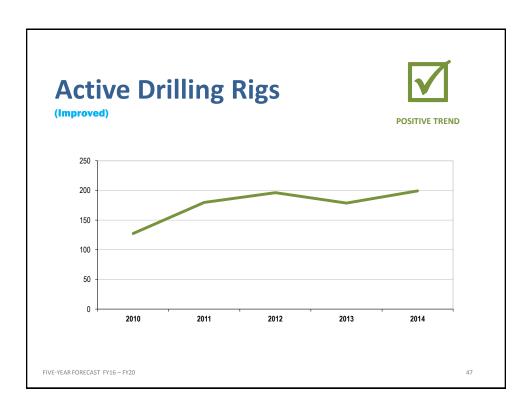


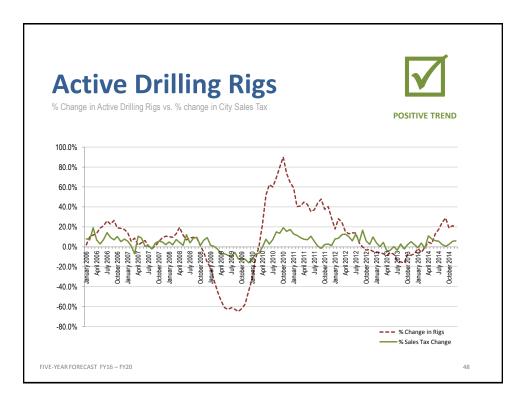


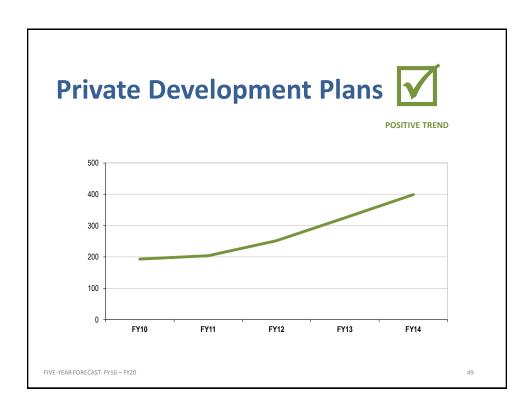


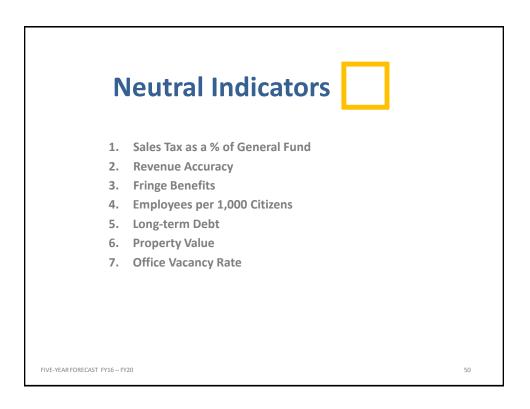


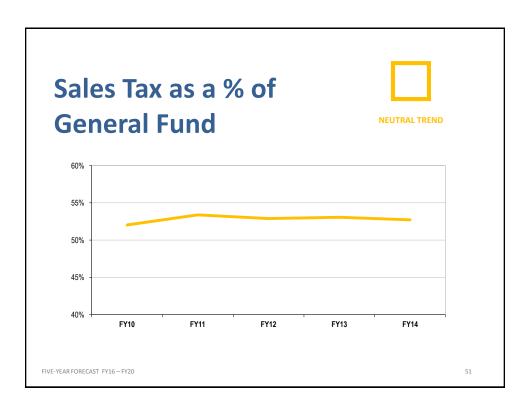


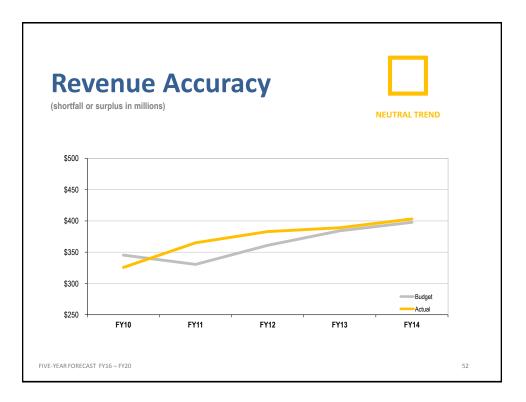


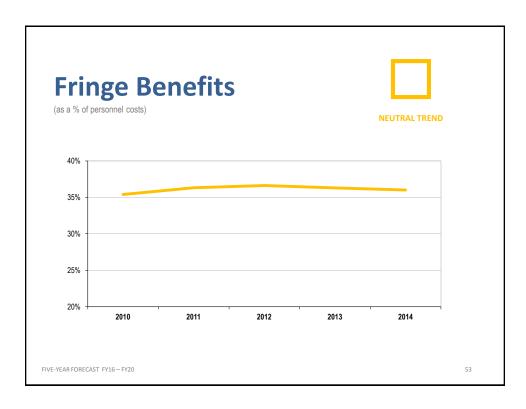


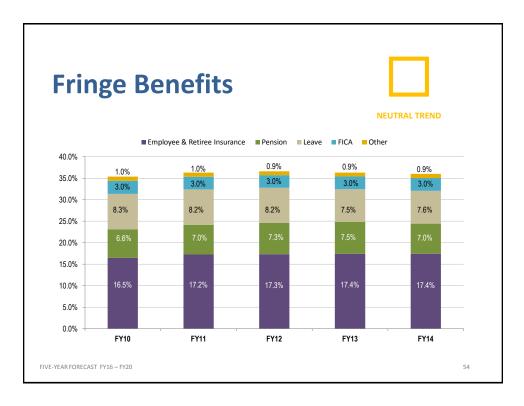


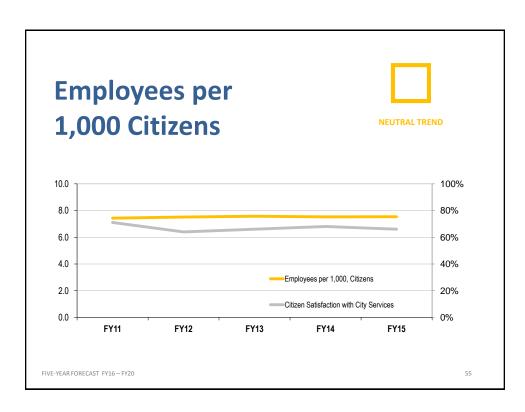


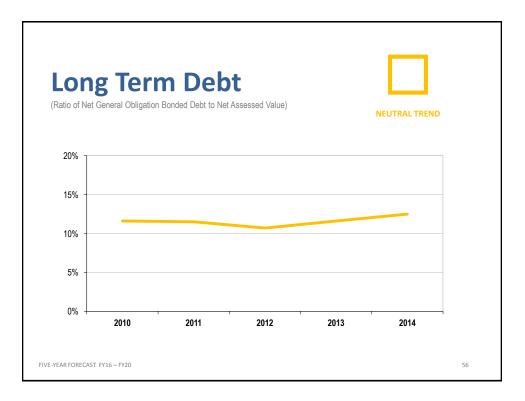


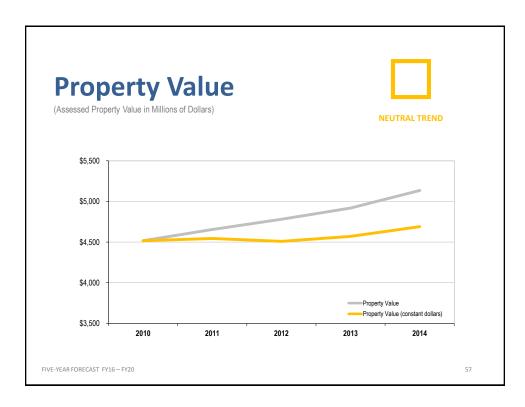


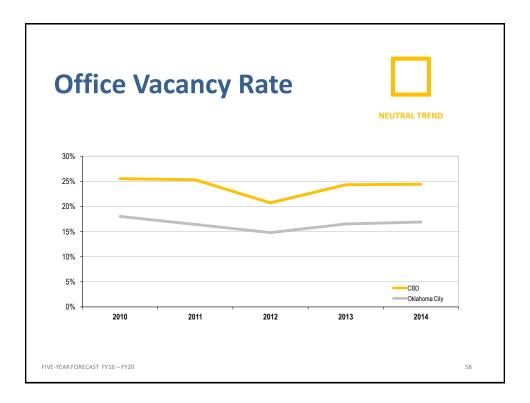


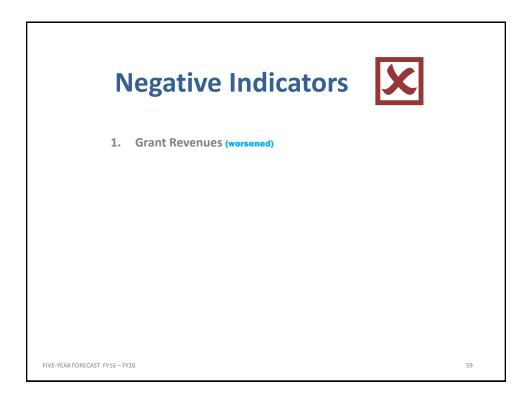


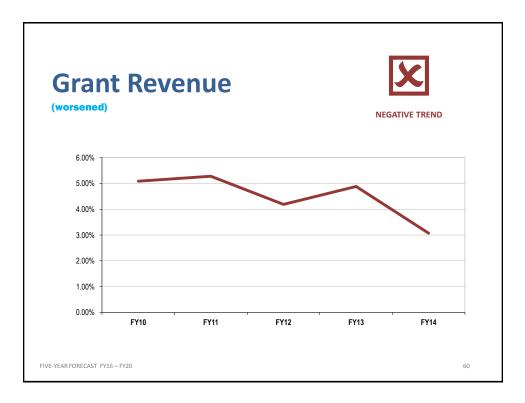






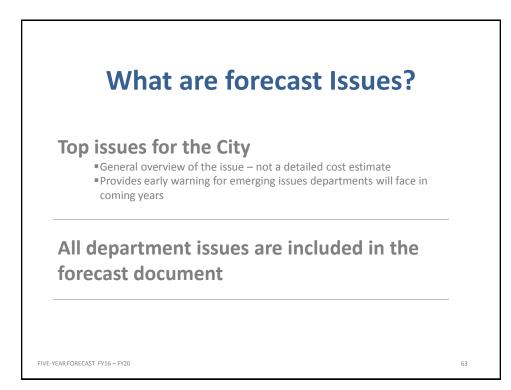












	HIGHLIGHTED ISSUES	
	Funding of street improvements	
NEW	Implementation of Comprehensive Plan	_
	Long-term Water Capital	_
	MAPS 3 Operating Costs	_
	Public Safety Communication System	
	Public Safety Service Level Improvements	
	Public Transportation System Improvements	_
	Retiree Health Costs - OPEB	_

HIGHLIGHTED ISSUE

Funding of Street Improvements



Citizens

Develop a Transportation System That Works For All

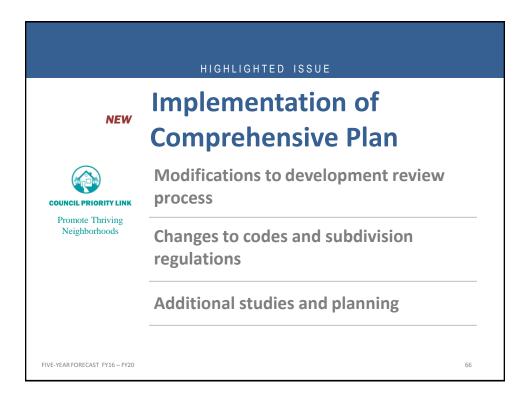
\$5 million is needed in annual supplemental funding to G.O. bonds

\$750,000 added to budget so far

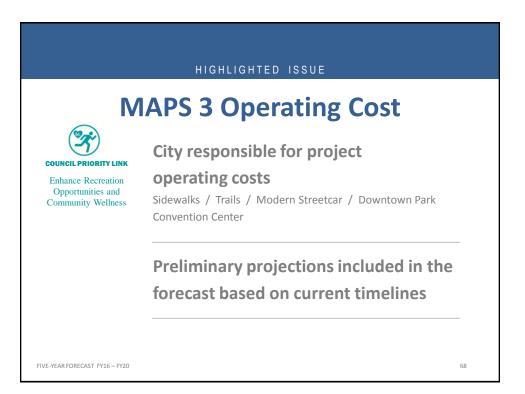
Supplemental funding could come from sources such as impact fees

65

FIVE-YEAR FORECAST FY16 - FY20



<section-header><section-header><section-header><image><image><text><text><text>



HIGHLIGHTED ISSUE

Public Safety Service Level Improvements



Fire Department Staffing

Provide a Safe and Secure Community

Two new additional Fire Stations
 Costs will increase to \$3.8 million per year in FY20

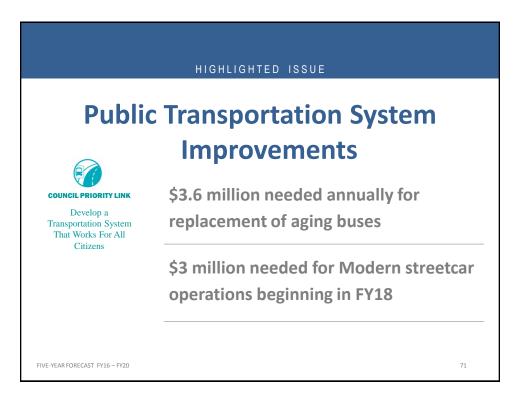
Police Department Staffing

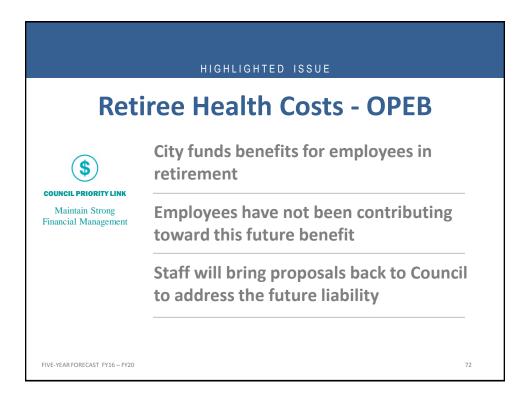
Staffing study recommended increased uniform and civilian staffingAdded 116 positions since FY13

69

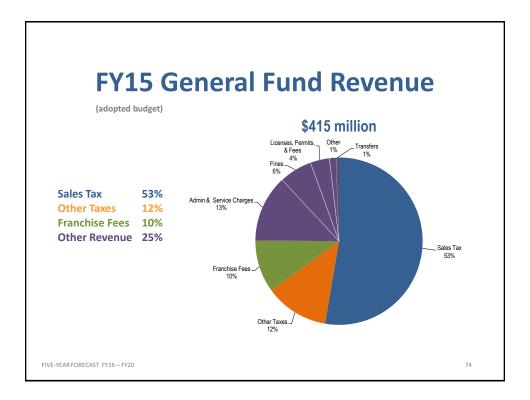
FIVE-YEAR FORECAST FY16 - FY20

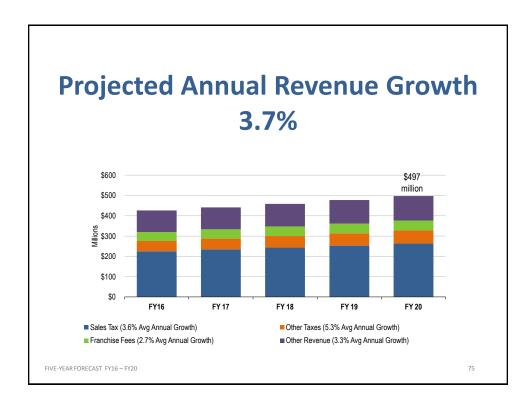


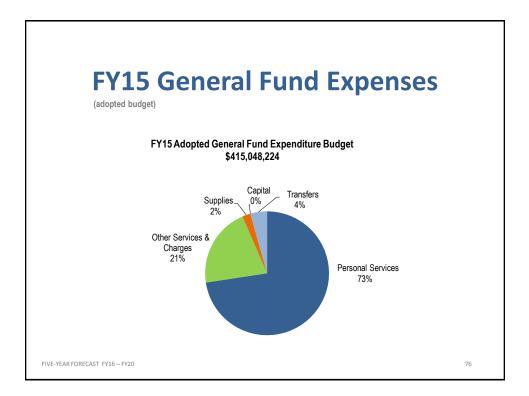


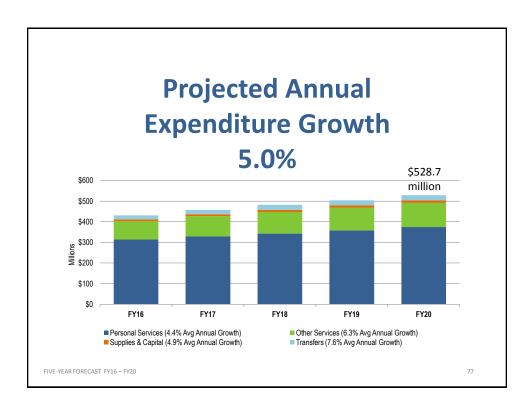








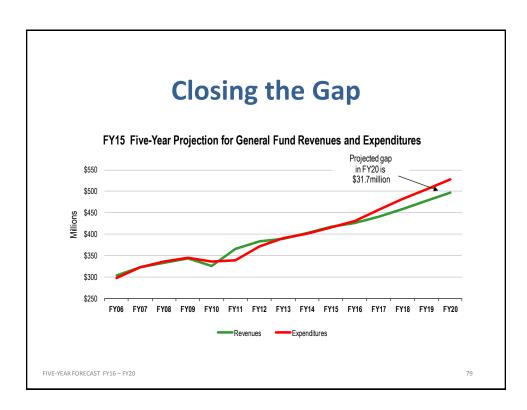


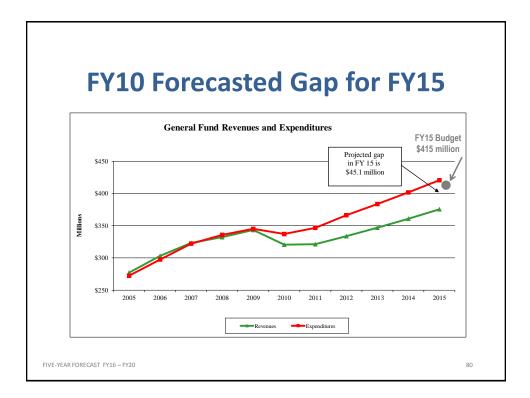


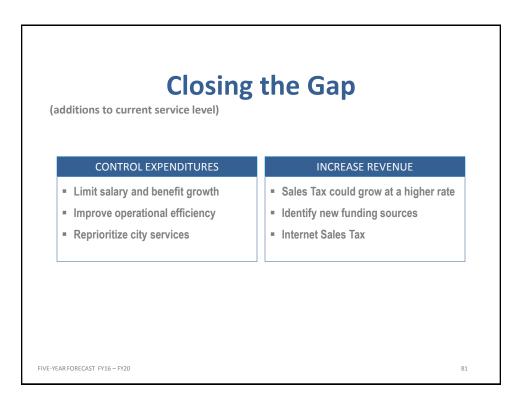
Expenses included in the forecast

(additions to current service level)

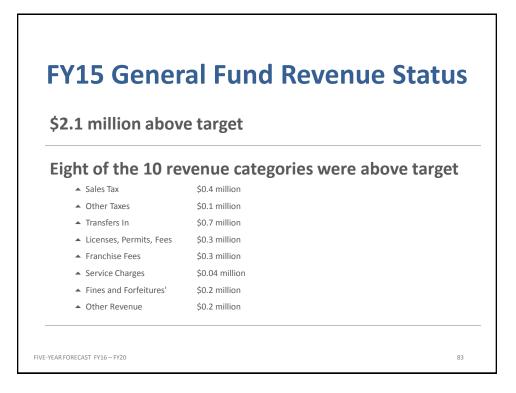
Total	\$2,391,872	\$10,740,021	\$13,959,151	\$18,379,743	\$21,190,492
Convention Center				\$250,000	\$500,000
Bus Replacement		\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000
MAPS 3 Modern Streetcar Phase I		\$1,500,000	\$3,000,000	\$3,090,000	\$3,182,700
MAPS 3 Park (Net Cost)		\$787,800	\$798,996	\$1,216,574	\$1,669,730
Increase Police Staffing	\$1,510,700	\$3,061,239	\$4,710,966	\$6,464,692	\$8,357,435
Increase Fire Staffing	\$881,172	\$1,790,982	\$1,849,189	\$3,758,477	\$3,880,627
	FY16	FY17	FY18	FY19	FY20

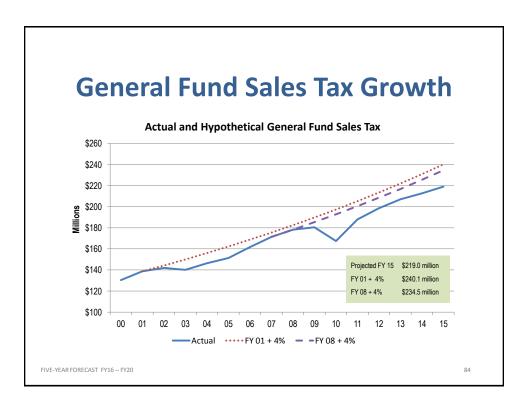












85

FY16 General Fund Revenue Outlook

Expect to end FY15 with 3.86% growth or \$417.8 million in revenue; 0.66% above budget

Revenue estimates are based on current year-end estimates

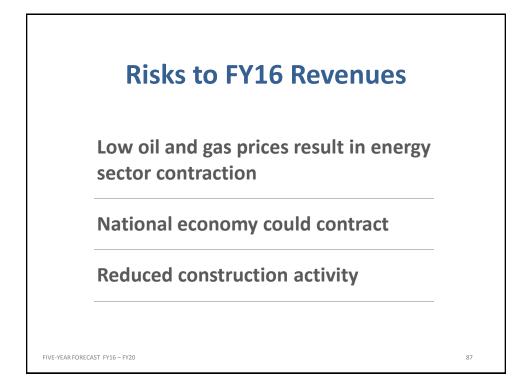
FY16 revenue is projected at \$426.7 million

2.14% above FY15 estimated year end revenue

2.8% above FY15 budget

FIVE-YEAR FORECAST FY16 - FY20

Sales Tax	2.15%
Sales Tax (Increased rem	ittance) 0.5%
Use Tax	0.0%
Franchise Fees	2.5%
Licenses and Fees	4.8%
Fines	2.3%
Service Charges	1.6%



iro	wth in a number of areas
	Salary, Insurance and Retirement - \$7.2 million
	Added 21 Fire Fighter Positions for ½ year for new fire station 29 - \$0.9 million
	Additional day (2096 working hours instead of 2088) - \$0.9 million
	Increase in subsidies = \$0.8 million
	Internal Service Funds = \$1.4 million
	Other Adjustments = \$0.7 million
	penditure cuts of 1% requested from all (except Police and Fire)

