Growth in State Compensation

John Francis Business Outlook Summit 2010

Wage Growth

- Wage growth is a key measure of a state's economic well being
- Strong wage growth → increasing living standards
- Stagnating wages → stagnating living standards

Measurement of Wages

- We measure wages in terms of compensation
- Compensation is the sum of
 - Wage and salary income
 - Employer contributions to social insurance
 - Employer contributions to pension and insurance funds
- All wages are deflated using regional Consumer
 Price Indices omitting energy

Omission of Health Care Sectors

- Health care is the fastest growing component of the US economy (at least in terms of the value of output)
- However, this growth cannot be sustained indefinitely
- We focus primarily on growth in the private sector outside of health care services

Real Compensation per Worker in 2004

	U.S.	LA	AR	MS	TX
Private	\$24,676.98	\$21,042.45	\$19,833.11	\$18,720.72	\$24,875.23
		34 th	41 st	47 th	16 th
Private Non-HC	\$24,559.40	\$20,903.03	\$19,473.63	\$18,201.09	\$24,980.50
Non-IIC		$33^{ m rd}$	41 st	48 th	14 th
Pri + Gov	\$25,202.29	\$21,668.15	\$20,544.92	\$19,671.48	\$24,992.79
		36^{th}	$43^{ m rd}$	46 th	17 th

All figures in 1984 dollars Rank among all US states appears below each average

Growth in Real Compensation per Worker 1991-2004

	U.S.	LA	AR	MS	TX
Private	16.42%	10.98%	18.99%	16.82%	18.54%
		45 th	19 th	31^{st}	21 st
Private Non-HC	16.17%	11.04%	18.66%	15.72%	19.02%
Non-IIC		$43^{ m rd}$	20 th	31^{st}	18 th
Pri + Gov	16.40%	13.46%	19.23%	18.33%	18.17%
		40 th	13 th	18 th	21 st

Rank among all US states appears below each growth rate

Determinants of Growth in Compensation

- What are the determinants of growth in real compensation?
- How does Louisiana compare with the rest of the country in these factors?
- We analyze state level data over the period from 1991 to 2004 to further explore these questions

The Per Worker Capital Stock

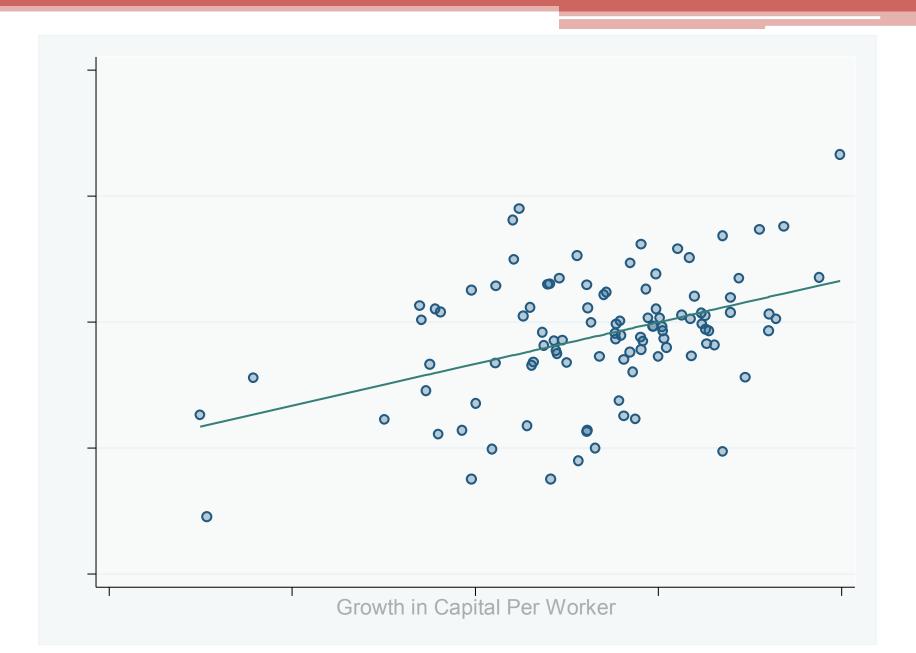
- Growth in capital per worker is the most important factor for economic growth
 - Capital = plant and equipment
- Growth in capital per worker drives productivity growth which results in greater compensation
- States with larger per worker capital stocks grow slower than those with smaller per worker capital stocks
 - Convergence

Per Worker Capital Stock in 2004

	U.S.	LA	AR	MS	TX
	\$104,095.40	\$90,977.52	\$78,539.49	\$69,920.14	\$146.257.50
Rank		$23^{ m rd}$	42 nd	50 th	$3^{ m rd}$

Growth in Capital per Worker 1991-2004

	U.S.	LA	AR	MS	TX
	23.77%	16%	11.64%	8.04%	36.80%
Rank		45 th	35 th	41 st	4th



How Much Does Capital Matter

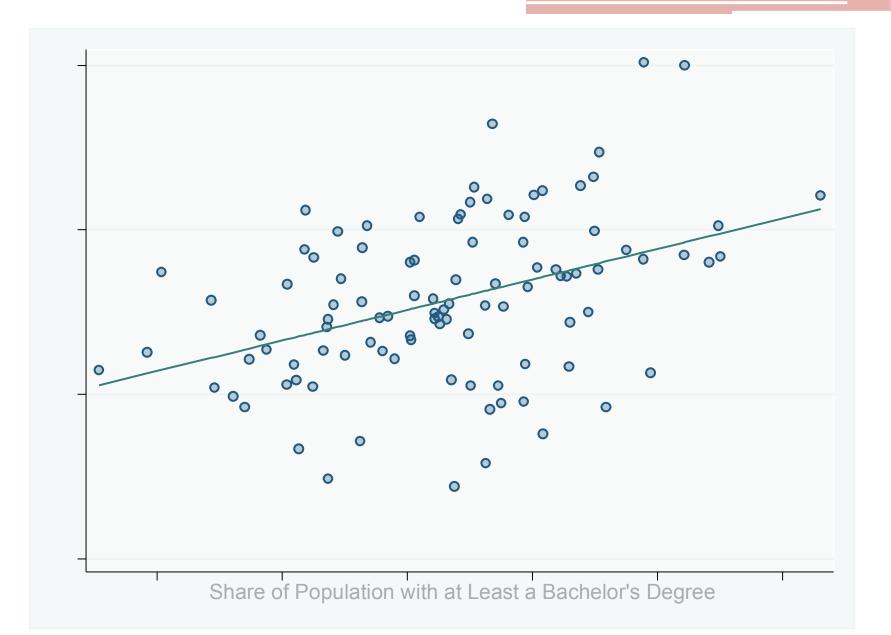
- Every 1% increase in the growth rate of the capital stock will increase the growth rate of compensation by .17%
- Average US compensation grew by 4.04% resulting from growth in the per worker capital stock over the period from 1991-2004
- Compensation in Louisiana fell by .11% due to lack of growth in the per worker capital stock
 - Growth in AR = 1.98%; MS = 1.37%; TX = 6.26%

Educational Attainment

- Having a skilled workforce is vital to generating economic growth
- Education spurs growth in 2 important ways
 - 1. It increases productivity which, in turn, increases compensation
 - 2. It helps to attract new firms to the state

Educational Attainment in 2000

	U.S.	LA	AR	MS	TX
No HS	19.62%	25.19%	24.69%	27.14%	24.35%
Diploma		49 th	46 th	51 st	45 th
HS	28.60%	32.40%	34.10%	29.37%	24.84
Diploma		40 th	45 th	26 th	6 th
Some	27.40%	23.68%	24.54%	26.59%	27.58%
College		6 th	10 th	23 rd	26 th
Bachelor's Degree or higher	24.38%	18.73% 6 th	16.66% 2 nd	16.90% 3 rd	23.24% 25 th



How Much Does Education Matter

- Every 1% increase in proportion of the population that attains at least a Bachelor's degree raises growth in compensation by .05%
- Our low levels of educational attainment cause our wages to grow .47% slower than the national average over the period from 1991-2004

Health Care Costs

- The high cost of health care has detrimental effects both on the bottom line of firms and on the effective disposable incomes of consumers
- The reduction in consumer spending created by increasing health care costs can then cause further reduction in sales and can hurt firms even further

Growth in Health Care Costs for All

	1987	2003	Growth Rate
Private Business Health Spending	\$122.4	\$423.0	245.9%
Household Health Spending	\$186.4	\$512.6	175.0%
Federal Government Health Spending	\$75.1	\$344.0	358.1%
State and Local Government Health Spending	\$71.5	\$278.1	289.0%
Consumer Price Index	116.0	186.1	60.4%

Real Health Care Costs in 2004

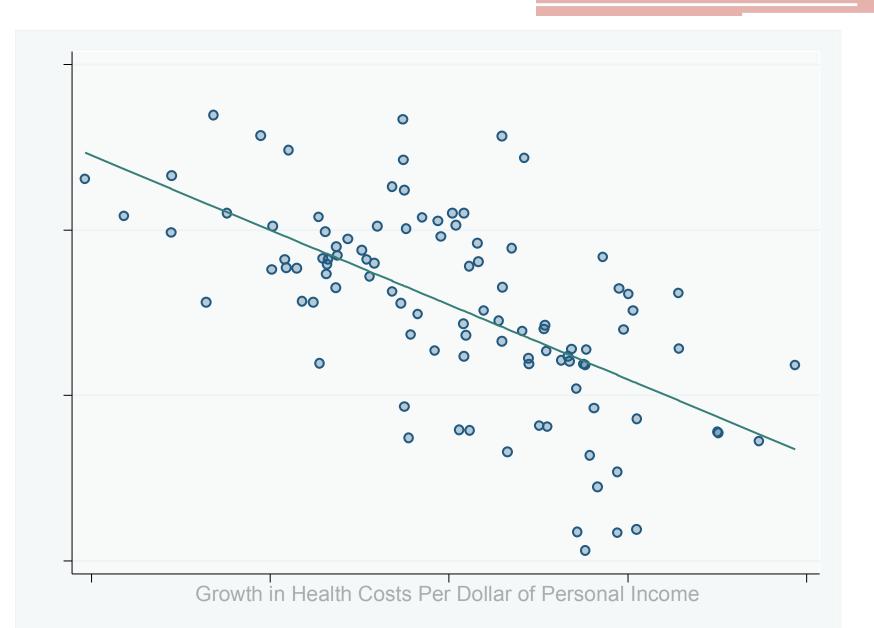
	U.S.	LA	AR	MS	TX
Value \$Millions	\$801,943	\$12,117 23 rd	\$7,143 33^{rd}	\$7,826 32 nd	\$55,401 3 rd
Per Capita	\$2,738	\$2,700 32 nd	\$2,607 $37^{ m th}$	\$2,713 31 st	\$2,471 43 rd
Per \$1,000 of Personal Income	\$156.24	\$179.89 12 th	\$181.17 11 th	\$201.56	\$148.68 37 th

Costs are measured as payments made on behalf of the residents of each state

Growth in Health Care Costs 1991-2004

	U.S.	LA	AR	MS	TX
Value	52.08%	40.73%	55.30%	64.22%	61.741%
		47 th	30 th	10 th	20 th
Per Capita	37.92%	35.36%	41.34%	53.78	36.36%
		40 th	28 ^h	$7^{ m th}$	38^{th}
Per	15.79%	9.70%	14.60%	24.29%	11.41
\$1,000 of Personal Income		46 th	37^{th}	13 th	$43^{ m rd}$

Costs are measured as payments made on behalf of the residents of each state



How Much Do Health Care Cost Matter

- For every 1% increase in the growth rate of health care costs per \$1,000 of personal income the growth rate in compensation per worker is reduced by .22%
- Health care costs have a larger impact on wage growth than investment in plant and equipment!

How Much Do Health Care Cost Matter

• The increase in health care costs between 1991 and 2004 have caused wages in the US to grow 3.47% slower than they would have if health care costs remained a constant share of personal income

• In Louisiana, wages have grown only 2.13% slower due to rising health care costs

Concluding Remarks

- Investment in capital, educational attainment and rising health care costs are primary determinants of growth in real compensation
- Louisiana lags behind much of the rest of the country in capital investment and educational attainment
- However, Louisiana is among the states with the lowest growth rate in health care costs

Questions

