



State of the Workforce Report

January 17, 2002



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Agenda

✓ The Region

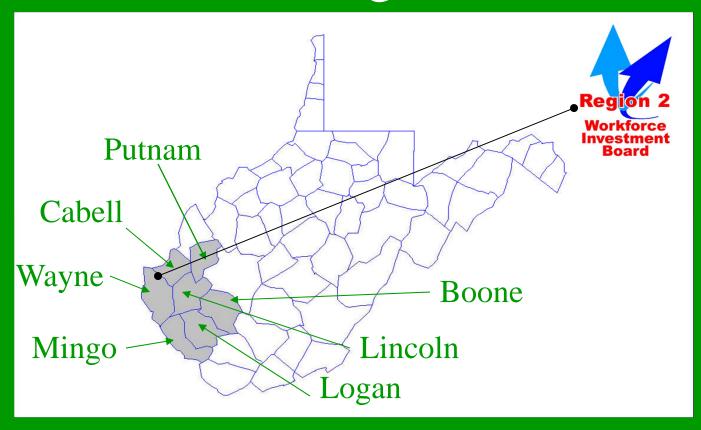
✓ Economic Growth

✓ The Survey Findings





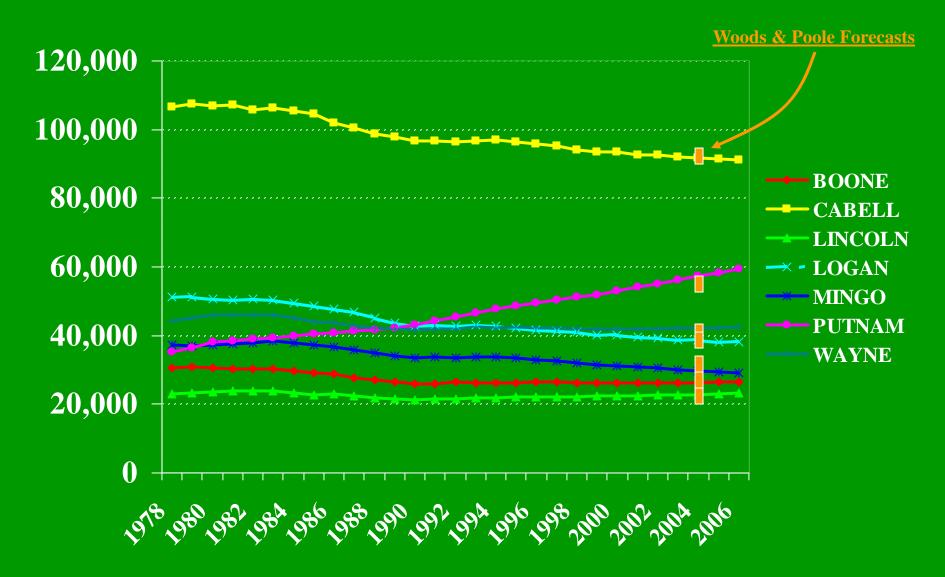
The Region







Population Projection

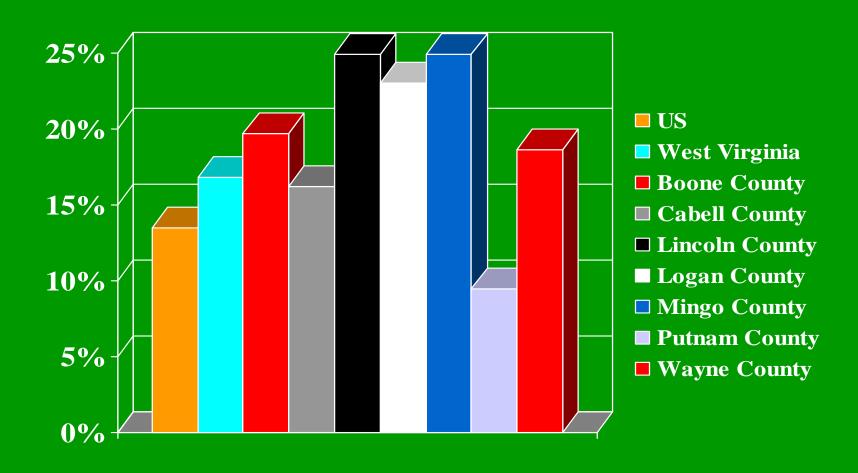


Source: Center for Business and Economic Research, Woods & Poole Economics, Inc.



Poverty Rates

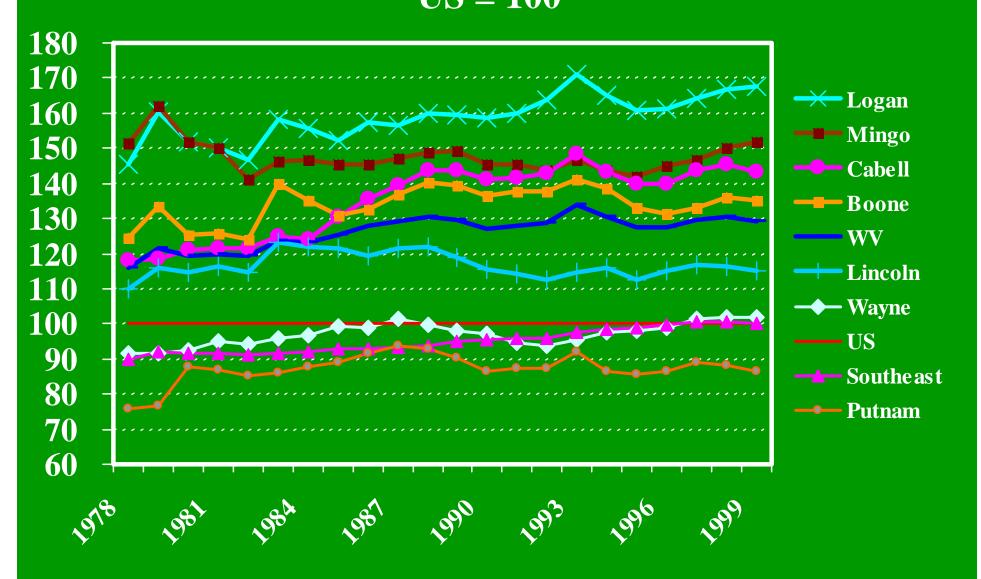








Relative Per Capita Transfer Payments US = 100

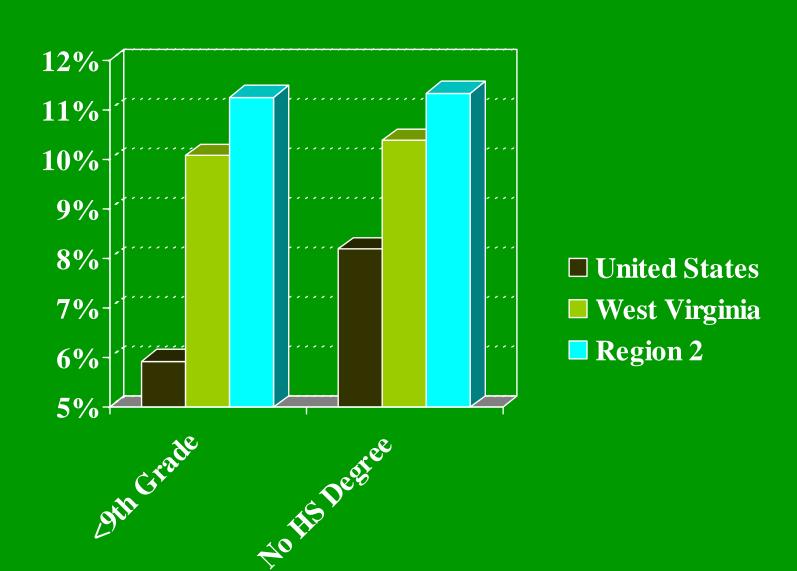




>25 Years Old With No Diploma



(1990 Census)

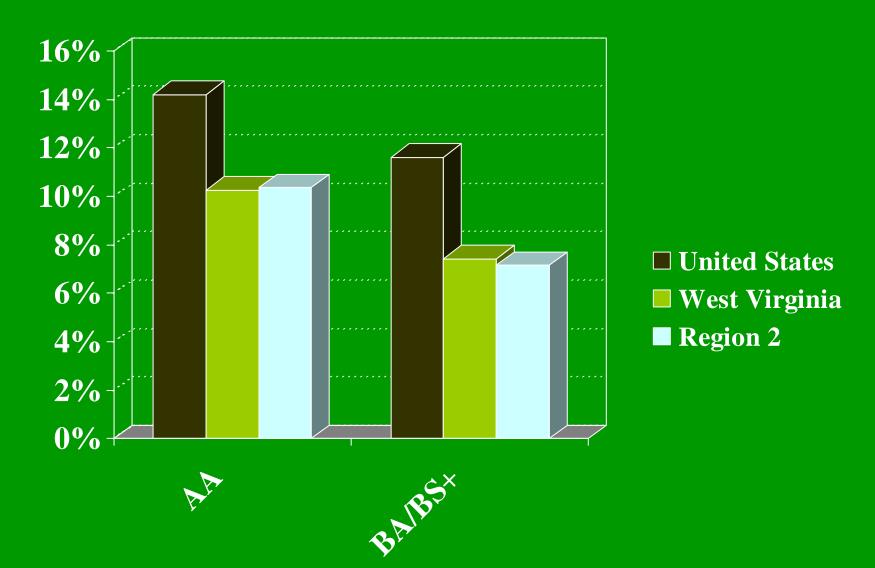




College or University



(1990 Census)

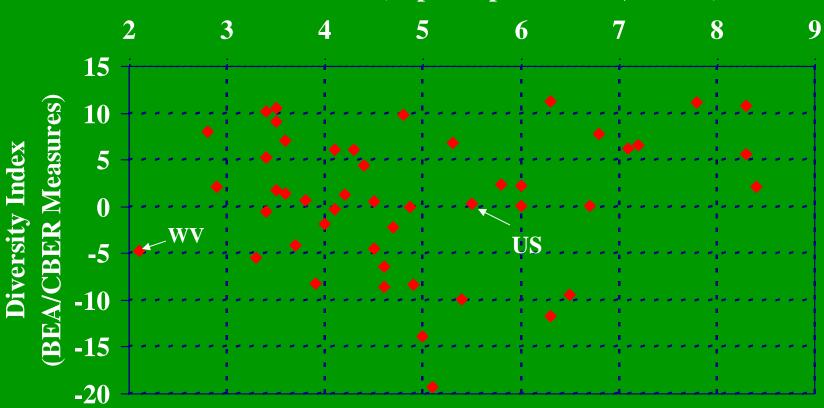






Economic diversity & growth: is it really a problem?

Growth Rate (in per capita income, 1997-8)





Regional Summary



- ✓ Population is much older than average (5+ years on average).
- ✓ Educational attainment is lower than average.
- ✓ Much of regional economy composed of stable, non-cyclical transfer payments (SSI, medicare, military retirement, etc.)
- ✓ Poverty Rates much higher than national average.
- ✓ Labor Force participation rates are climbing.
- ✓Per capita income (hence buying power) is among the nation's lowest.
- ✓ Considerable inter-regional variation in industry, but not markedly dissimilar from US as a whole.





Economic Growth

Public Capital

- ✓ Physical Infrastructure
- ✓ Flow of Services
- ✓ Social Overhead Capital
- ✓ Explains less than 10% of state differences

Private Capital

- ✓ Physical Capital
- ✓ Taxation Policy
- ✓ Access to Financial Capital
- ✓ Explains less than 15% of state differences

Human Capital

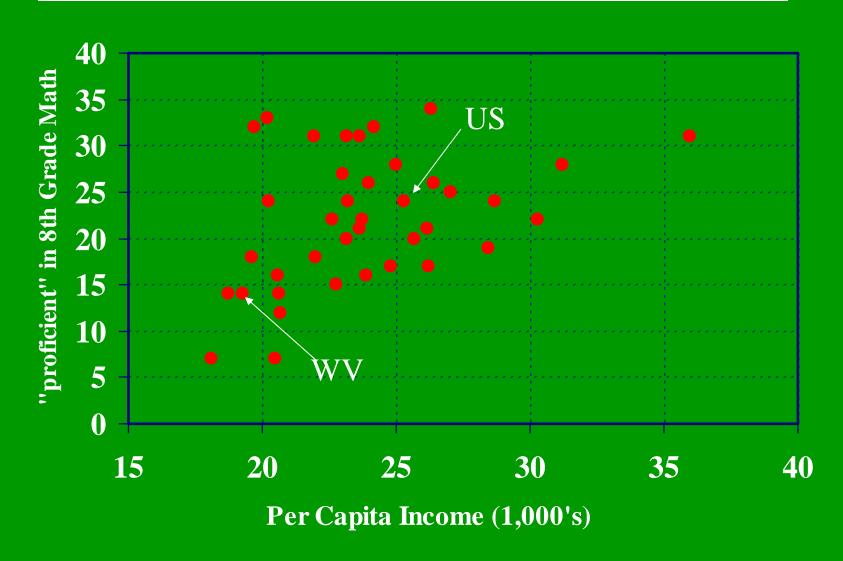
- ✓ Literacy
- **✓**Education
- **✓** Health
- ✓ Explains 60%-75% of state differences

Source: U.S. Bureau of the Census





Education & Income at the State Level are Correlated!







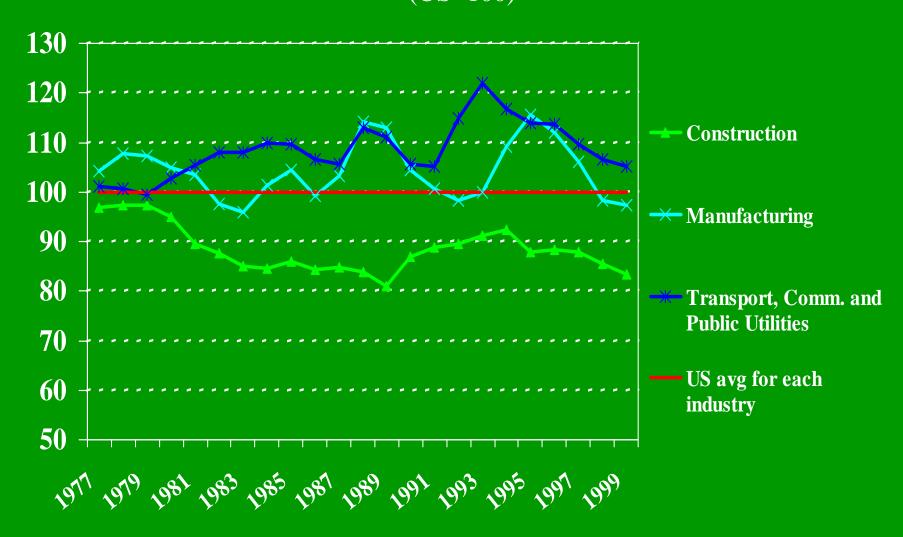
Worker Productivity Drives Wages!







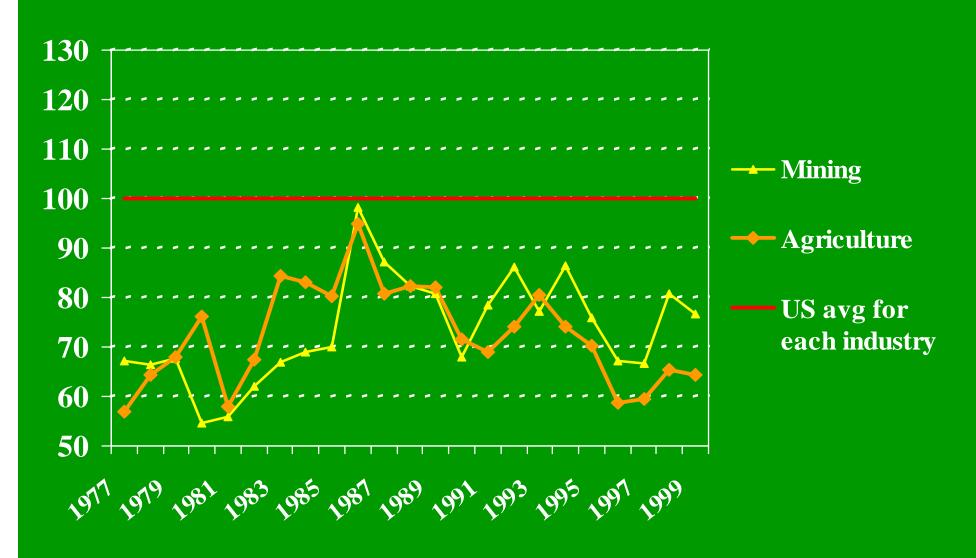
Relative Productivity of Capital Intensive Industries (US=100)







Relative Productivity of Resource Based Industries (US=100)

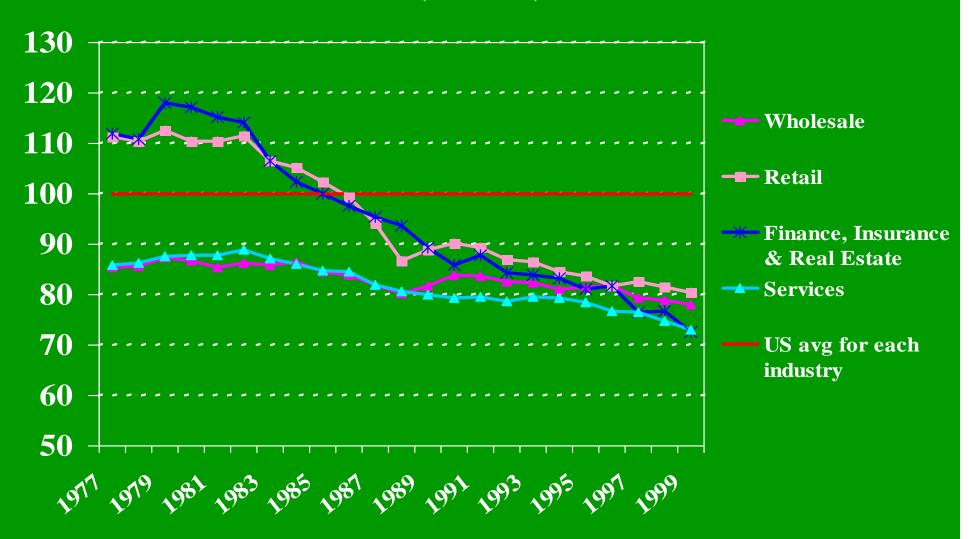






Relative Productivity of Labor Intensive Industries

(US=100)

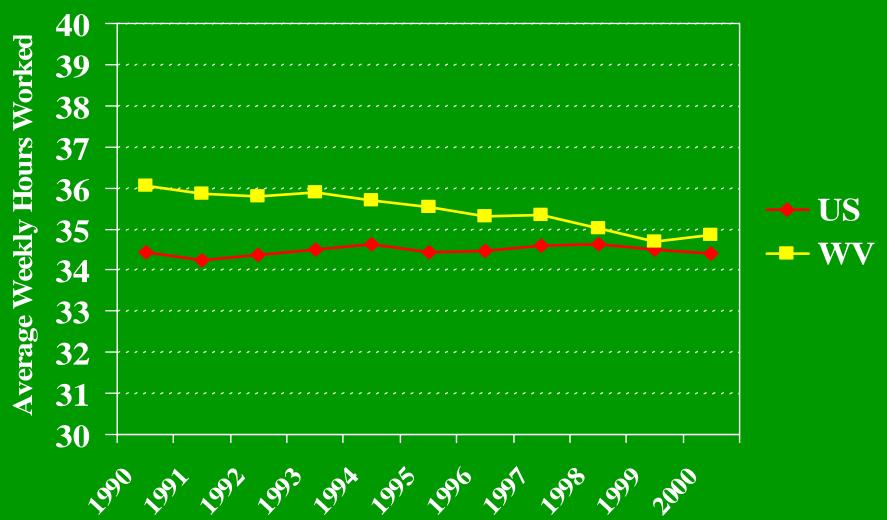




Is Productivity Affected by Hours Worked?





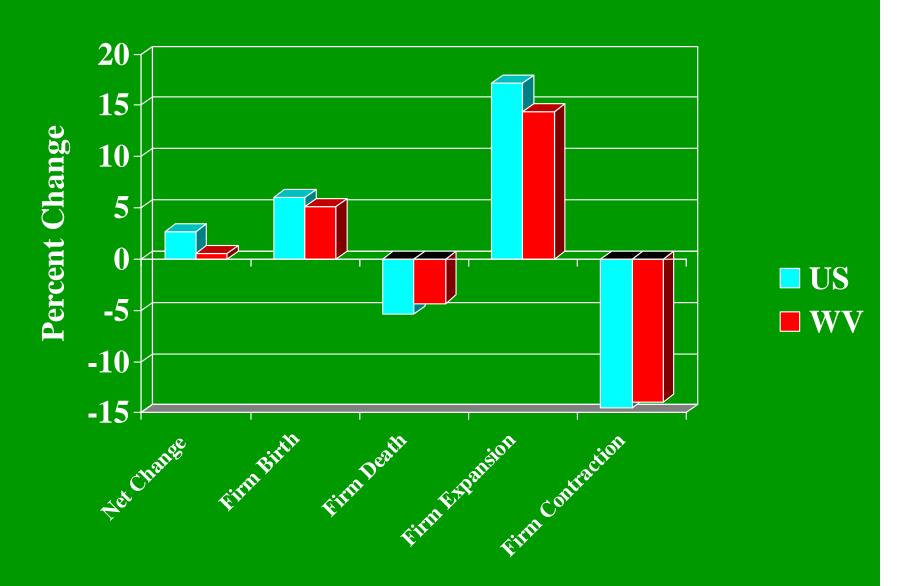




Employment Dynamics



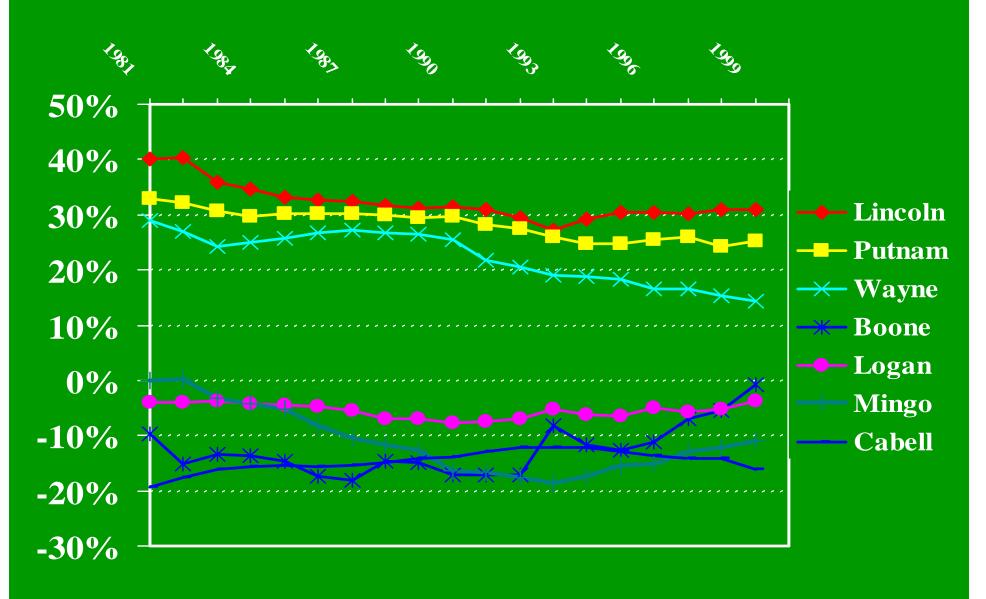
(Reason for employment change in 1999)







Net Income Changes From Commuting



Source: U.S. Bureau of Economic Analysis





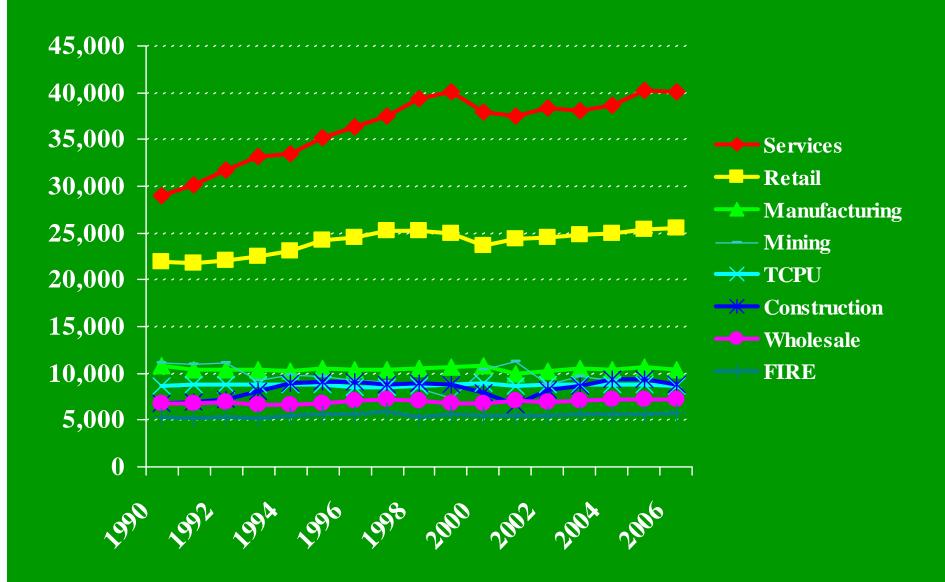
Our Forecast of Growth

- ✓ 30+ Industries, County and Region Specific
- ✓ Structural & Time Series Model based on national FAIR Model & WV Econometric Model
- ✓ Forecast variable is growth in per capita income & employment
- ✓ Very consistent with Woods & Poole Economics, Inc.
- ✓ Not only employment story (turnover matters)
- ✓ Misses most recent developments



Employment Changes









Growing Industries

- Transportation (and related services, modest)
- Business Services (call centers)
- Personal Services
- Health & Social Services
- Engineering Management (Boone)
- Wholesale Trade (Putnam, Cabell)
- Retail Trade
- Agricultural Services (Lincoln & Mingo only)
- Manufacturing (Putnam only)





High Turn-Over Industries

- ✓ Mining (due to aging labor force)
- ✓ Business Services (call centers average < 8 weeks for each employee)
- ✓ Personal and Health Care Services
- ✓ Eating & Drinking Establishments
- ✓ Retail
- ✓ Wholesale





Other Growth Issues

- ✓Informal economy is more than twice as large as national average (so there are potentially a bigger pool of workers available).
- ✓ Short term stability may become an increasingly important concern for business.
- ✓ Security climate may affect attractiveness of smaller cities and rural areas.
- ✓ Cultural differences in rural areas may be an unapparent strength that needs to be explained to potential employers.



Regional Growth Summary



- ✓ Productivity in capital intensive industries very competitive
- ✓ Relatively low productivity in labor intensive industries is suppressing income in the region
- ✓ The relative decline in productivity in labor intensive industries suggest human capital weaknesses as a major challenge
- ✓ Low productivity growth is leading to a growing gap in output and income in WV
- ✓ Slow regional growth, in low productivity (hence low income) industries is forecast for the region







The Survey Findings

- ✓ Extended Survey of Higher Education (400 firms)
- ✓ WIB Survey (300 firms employing 47.4% of region's workers)
- ✓ Integration of Results to Economic Forecasts
- ✓ Contacted all employers >25 workers in region
- ✓ Contacted each industry







Overall Results

- ✓ 59,564 employees with 5,314 new hires per year
- ✓ 16,158 applicants turned away each year from advertised positions (4 applicants per job)
- ✓ 51.7% expected to hiring growth, 14.3% expect declines, and 33.9% expect no change
- ✓ Why did you hire new employees?
 - 37.9% due to Increased business
 - 78.7% due to employee turnover
 - 25.3% due to expansion of business elsewhere







Some Specific Observations

- ✓ Employers are satisfied with their employees (> 80% feel employees are well prepared)
- ✓ Employers think there is a pool of qualified employees (78.6%)
- ✓ Most firms use external training for guidance on quality
 - 52% use state guidelines
 - 32% use industry guidelines
 - 21.8% use education credentials
 - 20.1% use trade associations
 - 18.4% use professional standards







More Specific Observations

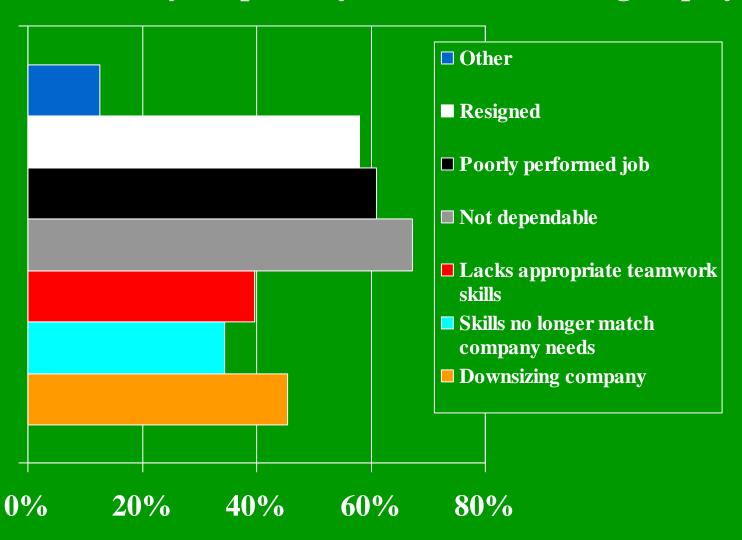
- ✓ 1 in 8 firms need some career progression training
- ✓ Managerial Training needs are nearly universal
- ✓ 95.5% use in-house training
- ✓ Firms spend a lot on training (as much as \$8,000 per worker)
- ✓ There is an identifiable demand for worker partnerships
 - 10.9% want to work with the WIB
 - 10.3% with the Robert C. Byrd Center
 - 10.3% with Vocational/Technical Schools
 - 9.2% with the Work for WV Career Centers
 - 7.5% with Community Colleges







What was your primary reason for releasing employees?

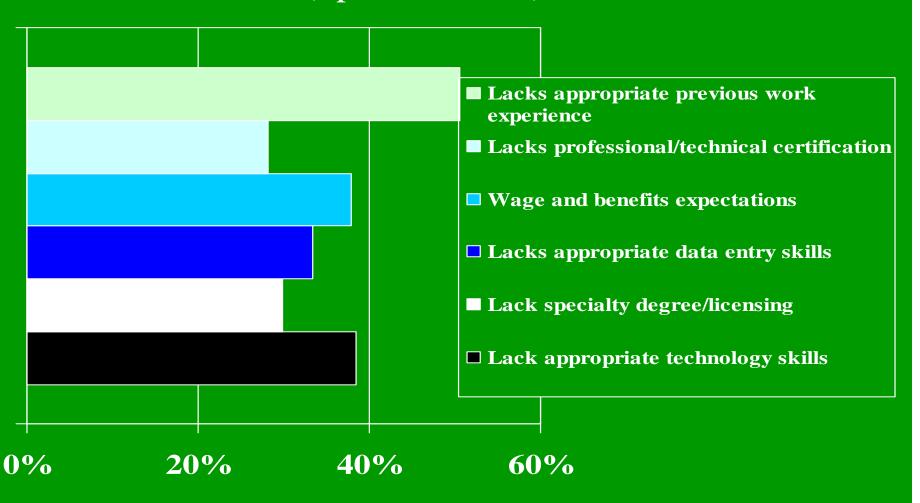








Why do you turn away job applicants? (Specific Skills)

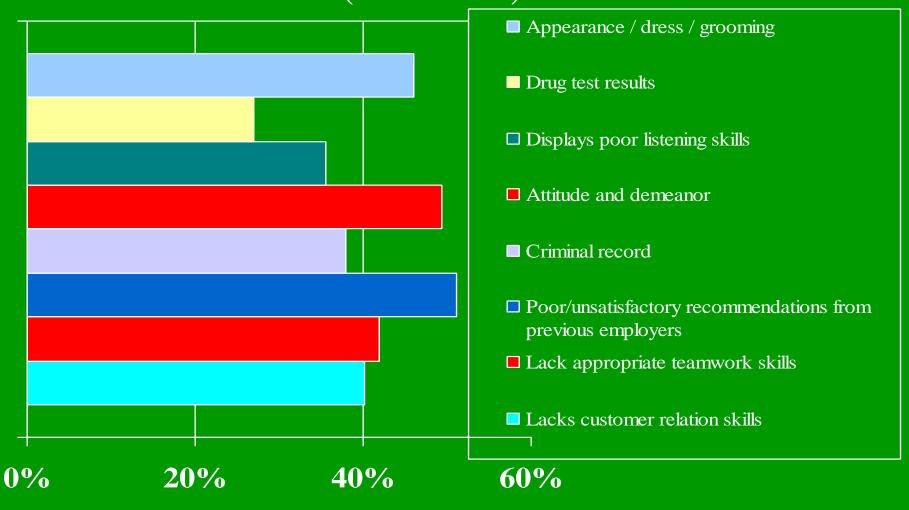








Why do you turn away job applicants? (Life Skills)

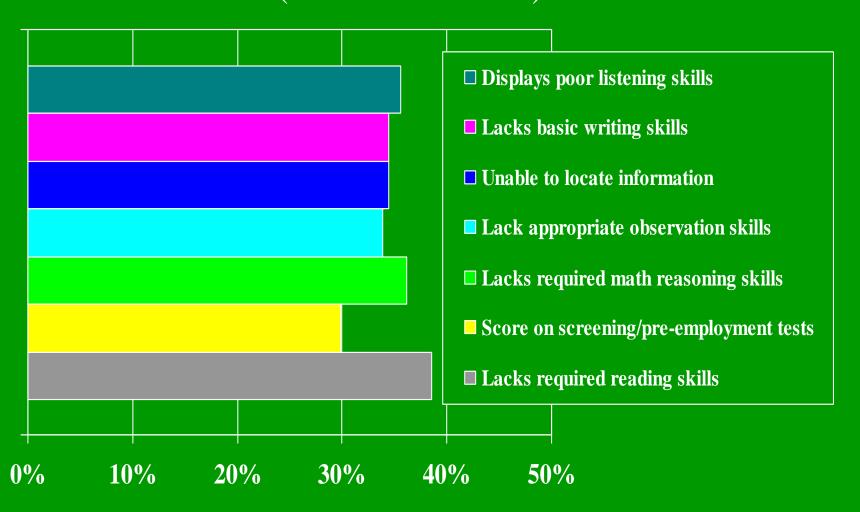








Why do you turn away job applicants? (Basic Education)









A Sampling of Needed Training

- 80 hour course underground mining and safety Apprentice, Hydraulic machinists repairmen Certified firearms and safety courses
- Communication skills. Management skills. Computer training.
- Campaign training and data entry, Computer skills, Computer training
- Electrical training. Safety training. New equipment training.
- Employees attend an apprenticeship program which the local union handles
- Hospital specialties, lab training
- Life guard, sales and front desk skills
- Manager training program. Sales specialist, Hourly people to become section foreman
- mechanics, maintenance, hazardous hauling
- telephone skills, accounting, bookkeeping, computer, finance





Conclusions

- ✓ Regional Productivity not growing at national pace, lowering incomes.
- ✓ Education & Workforce development our #1 need to reverse the growing productivity/income gap
- ✓ The region is growing very slowly, but aging labor force makes finding qualified workers a potential problem.
- ✓ Low job displacement and employer satisfaction are unexpected strengths that need to be emphasized.
- ✓ *But*, pool of workers turned away (3 for every new hire) is a fundamental regional weakness.





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