

COAL AND ECONOMIC DEVELOPMENT IN KENTUCKY

Presentation to the Kentucky Coal County Coalition

by

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Mountain Association for Community Economic Development, Inc.

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INTRODUCTION

As coal county officials, you know better than any one else that the coal industry represents a mixed blessing for the coal fields. On the one hand, coal mining employs large portions of the labor force in your county, and some of the wages earned by those miners is spent in retail stores and saved in local banks in your county. Without coal, many of your counties would still be the "poorest of the poor", with no job prospects for young people. Furthermore, most of you depend upon the severance tax money returned to your county for over a fourth of your county budget.

On the other hand, however, coal has always been a volatile source of income, for both private citizens and the public sector. Since the 1950s, coal employment in Kentucky has gone from a high of 51,400 to a low of 20,500, and back up to 36,000. And, as your road expenditures show, coal production involves high costs for communities. Finally, it is a depletable resource. As public officials in coal counties you need to be looking toward a future beyond coal.

I am here today to talk to you about MACED's research on the coal industry and economic development. Many of the findings and forecasts will be familiar to you. First let me tell you briefly what MACED does, and how we see development. Then I will describe our coal project and present some of our research results to you.

MACED

MACED is a non-profit economic development organization. For the past 9 years we have been working in Central Appalachia, primarily eastern Kentucky, to stimulate economic development. At first, the staff provided technical assistance and loans to small businesses. Over time, we developed what we call a "sectoral" approach — we research an economic sector that has a sizeable impact in the region, looking for ways it might be changed so that poor people and poor places benefit more.

For example, we have become involved in the lumber industry, assisting small mills and loggers develop better and more profitable operations.

The lumber industry employs large numbers of poor rural workers. If more

dependable markets and more profitable markets can be established, large numbers of households will have better economic opportunities. For example, if loggers can sell hardwood lumber for veneer rather than for pallets, they can make much more profit. If they can plan on a steady reliable market for their logs, they can invest in better equipment and develop more efficient operations. MACED is trying to expand the benefits from the lumber industry to more low income people.

In banking, as many of you who are county judges know, we have been working with a consortium of eastern Kentucky bankers to expand the amount of mortgage funds available in the region, especially for low and moderate income households. MACED staff has offered practical workshops to assist bankers in using the secondary market, has worked with the counties and banks in issuing mortgage revenue bonds to increase the amount of funds available to low income borrowers, and has advocated, successfully, some changes in federal regulations that make programs more appropriate for eastern Kentucky conditions. Again, we see our work with bankers as an effort to change the way an important institution operates, expanding its capacity to benefit the region and low income people.

MACED AND THE COAL INDUSTRY

Obviously, a sectoral approach to development in eastern Kentucky must consider the coal industry. Therefore, two years ago we began to research the coal industry and its economic and social impact. We want to see whether there is some way that the coal industry can return more benefit to coal field areas without jeopardizing the viability of the industry. We are combining analysis of the industry with an assessment of current policies toward the industry. Our goal is to promote public discussion about how coal can be more developmental, and to work with interested Kentuckians in generating new ideas about local and state programs to improve conditions.

Many assume that volatility in demand for coal is the problem, and that if there were enough growth in the industry, the coal field counties would improve without changing the current patterns of private and public management of the industry. If Kentuckians see the coal field problem as a coal demand problem, then policies which combine promotion of coal with

a <u>laissez-faire</u> social policy toward the region are adequate. If the problem is not one of demand for coal, other measures are necessary.

MACED's coal project is pursuing four main threads right now:
We analyzed the impact of growth in coal in the 1970s, comparing changes
in coal counties with changes in noncoal counties. We gathered social and
economic data for all of the normetropolitan Kentucky counties for 1960
and 1980, to examine the relationship between economic growth and development.
I'm going to share some of those findings with you today.

Also, we have been talking with coal industry leaders. Thus far we have talked with seventeen CEOs of large coal companies, to get their perspective on development problems. ¹ Our purpose in having these discussions is two-fold. On the one hand, we want to learn first-hand how these coal leaders perceive their industry and its future, as well as how they perceive development problems and responsibility for development. Secondly, we find these interviews give us insights into what changes, in either the private sector or public policy, might be possible. We get ideas about how MACED or government officials might work with companies to alleviate some problems in the region. We plan to talk with more operators of smaller companies, as well as bankers, and other local leadership like yourselves over the next few months.

We are analyzing production, productivity and employment between 1975 and the present, and making some projections into the future about employment trends in the coal industry and in Kentucky in particular. I'm

In lengthy, taped interviews, we discuss (a) the future of the Appalachian/eastern coal industry, including trends in production, productivity, labor requirements, technology and labor relations; (b) acid rain legislation, and the likely impacts of different bills on production, employment, and community welfare; (c) ways of making coal a better foundation for economic development in coal-producing areas; (d) ways of bringing stability and predictability to coal demand; (e) company policy toward changes in the industry, especially methods of easing the transition for unemployed miners who will not be rehired; and, finally, (f) public policy and the industry, including demand side regulation, capital formation and investment, the role of the public sector in industry affairs, and likely future trends.

going to tell you a little about those findings as well, and where we think they are leading.

Finally, we are assessing the public and private benefits and costs of the coal industry in Kentucky. Using a balance sheet format, we will project the relationship between the public sector and the coal industry between 1985 and the year 2000, given current policies.

In the early fall we will publish five reports exploring these coal and development issues. I'm giving you a preview this morning.

WHAT DO WE MEAN BY DEVELOPMENT?

Generally, people think of economic development as expanding a local or regional economy so that people have employment and income opportunities. Therefore, we often equate development with creating jobs which, in turn, becomes industrial boosterism and promotion of an "improved business climate". However, development is more than plant attraction. It is a process of building a stable and resilient local economy which provides a good quality of life.

People consider a place "developed" when men and women can find stable employment, good housing, good health care, and send their children to good schools. The quality of the physical environment has emerged as a prime criterion for the quality of life — people want to live and raise families in healthy environments, and corporations want to locate plants in areas which offer their employees these benefits.

HOW DOES DEVELOPMENT HAPPEN?

Economic activity expands, and the benefits, wages and profits, are reinvested, publicly and privately in the place that needs development. Public reinvestment entails taxation and investment of tax revenues in local infrastructure such as roads and water and sewer systems, as well as schools, clinics, libraries, and so forth. Private reinvestment includes savings in local banks, loans to new businesses, as well as local expenditures and construction — what the economists call "multipliers".

An important factor in stimulating this private sector reinvestment process is widespread distribution, both of income and employment. When

income is concentrated in the hands of a few people, it is less likely to to percolate down through the local economy and improve conditions over all.

Public sector reinvestment depends upon adequate taxation. Of course, international competition puts a limit on how much taxation and other costs any one industry or corporation can absorb and still produce its products at a profit. That is what makes coal a "mixed blessing" for your counties. And it is what leads us back to policies which promote coal. If we can't add on to the costs the coal industry absorbs and make it share more of the benefits without damaging its competitiveness, then we end up working to expand the markets for coal so that the pie will be bigger and coal counties can have a larger piece.

That's a long introduction to our research. Most of the research I am going to share with you this morning looked at the effectiveness of those promotional policies. When coal grew in the 1970s, did the coal field counties improve? Does development follow growth?

CHANGES IN RURAL KENTUCKY, 1960-1980

Economic and social changes occurred throughout rural Kentucky between 1960 and 1980. There were changes all over rural America during this period, both in what sector made up the economic base of rural counties, and in social conditions.

Changes in the economic base

Generally rural America shifted away from dependence upon agriculture, and became more dependent upon manufacturing. Many refer to the movement of manufacturing into rural areas as "rural industrialization". In 1960 18% of rural Kentucky earned income came from agriculture, 11% from mining, and 13% from manufacturing; in 1980 agriculture made up only 6%, mining had increased to 17%, and manufacturing had increased to 18%. Interestingly, in rural Kentucky, government's portion stayed the same, at 18%.

Changes in social conditions

Rural Kentucky "caught up", somewhat, with the rest of America, and differences in conditions also narrowed <u>among</u> counties. In 1960 per capita personal income in rural Kentucky was 51 percent of the national

average, but by 1980 it had risen to 64 percent. These increases are reflected in a general decrease in the poverty rate: low income families (families with incomes less than \$7500 in 1980; less than \$3000 in 1960) made up about 54 percent of all families in rural Kentucky in 1960 — 2 and 1/2 times the proportion in the nation; by 1980 27 percent of families in rural Kentucky were low income, compared to 14 percent nationwide.

In housing conditions, we moved from 33 percent plumbed housing units to 86 percent. Education, you won't be surprised to hear, is more problematic: Kentucky has not closed the gap with the rest of the nation—we lag behind as much as we did in the 1960s, despite improvements in the rural counties. In 1960 only 20 percent of rural Kentucky adults had a high school education, (less than half the national figure at the time), but in 1980 43 percent had completed high school (close to two-thirds the national figure of 67 percent).

Changes in Coal Counties compared to other counties

In order to look more closely at coal county development and change, I divided rural Kentucky counties into four groups, according to the main economic base in each. The groups include agriculture, coal mining, manufacturing, and a "residual" category of counties in which government makes up the primary economic base (like Franklin or Lyon counties), or which have no dominant base (like Estill). This categorization gave me 27 rural coal counties, 6 in western Kentucky and 21 in eastern Kentucky.

ECONOMIC GROWTH

Coal counties had a much larger growth in income than non-coal counties, no matter how you measure income. Coal counties growth in earned income (net labor and proprietor income by place of residence, non-transfer payment income) between 1960 and 1980 was 164 percent, compared to 111 percent over all in rural Kentucky counties, 91 percent in farm counties, 93 percent in manufacturing counties, and 88 percent in counties that have a mixed economy or depend heavily on income from government work.

This greater percentage growth in coal counties would suggest greater opportunity for economic development. Poverty levels should go down.

There should be more money for "public and private reinvestment" in the

local economies. We would expect to see evidence of greater social gains. However, conditions in coal counties improved at virtually the same level as conditions in the other types of counties, even though they experienced substantially less economic growth.

DEVELOPMENT INDICES, 1960 AND 1980

I constructed a summary measure of development, which includes a poverty indicator, an education indicator, and a housing indicator. I add these up for each county, and thus have a development score— the maximum possible is 300%. Presumably a "fully developed" county would have 100% of its families with incomes over the poverty level of \$7500, 100% of its adults would have a highschool education, and 100% of its housing units would be plumbed. To give you an idea of what conditions are like elsewhere, I have figured these indices for the rest of the nation and for West Virginia. As you can see, the U.S. as a whole has a score of 251%; the rural U.S. scores 235; West Virginia scores 226, and Kentucky scores 225. Rural Kentucky scores 202.

When we look at these scores by base in rural Kentucky, we see that farm and coal counties lag behind the others. Farm counties have a cumulative index of 188 in 1980, and coal an index of 191. Manufacturing is a little higher, at 212, and government-mix counties the highest, at 218. Of course, our real interest here is in the <u>change</u> that occurred between 1960 and 1980, because, although we don't expect miracles from economic growth, we do expect more change when growth is higher. After all, that's what our policy's hope is pinned on.

As you can see, the change is virtually the same across all the bases. Even though coal growth was 164 percent, compared to around 90 percent in the other economic bases, the improvement in conditions in coal counties was just about the same as it was in all the other bases.² Let's look more specifically at the differences between bases.

There were some unusually big changes, but they don't follow the sectoral differences. If there's time later, I have some maps I can show you which pinpoint the counties that really improved a lot.

LOW INCOME FAMILIES

In 1960, 61 percent of families in coal counties had incomes less than \$3000, compared to 60 percent in farm counties, 50 percent in manufacturing counties, and 46 percent in the government-mixed group. By 1980, coal counties had 30 percent low income families (less than \$7500, which is equivalent to the \$3000 in 1960). But farm counties also had 30 percent, while manufacturing counties had 24 percent and government-mixed counties 23 percent. In other words, both farm and coal counties improved about "30 percentage points", while both manufacturing and government-mix counties improved about 25 percentage points. Total income grew at a much greater rate in coal counties, but this growth did not translate into greater reductions in poverty levels. Apparently, the income growth was concentrated at the top.

HOUSING CONDITIONS

The same pattern is evident in changes in housing conditions. Only 28 percent of housing units in coal counties had plumbing in 1960, compared to 26 percent in farm counties, 39 percent in manufacturing counties and 40 percent in the government-mixed group. There were substantial changes between 1960 and 1980 in rural Kentucky! In 1980 83 percent of coal county houses had plumbing, 80 percent of farm county units, 89 percent of manufacturing county houses and 91 percent of our mixed industrial counties. Once again, however, changes were paced the same across county groups — coal and farm both gained about 55 percentage points, and manufacturing and the mixed group each gained about 50 points.

EDUCATION

We see the pattern repeated when we look at education gains across rural Kentucky. Coal and farm counties started out lower and ended up lower, but they narrowed the gap a little between themselves and the manufacturing and government-mixed counties. Coal counties did not stand out, however.

In 1960 only 16 percent of the adults in coal counties had a high school education. Seventeen percent of adults in farm counties were high school graduates, and 23 and 24 percent in the other two groups. By 1980 both farm and coal counties had 38 percent high school graduates, compared to 47 and 50 in the other two groups. Gains in education were more equal across all the bases, and in this respect farm and coal counties did not narrow the gap very much. As you can see, farm counties achieved a 21 point gain, coal 22, manufacturing 24 and the government-mix counties 26 points.

WHAT DO THESE COMPARISONS SHOW?

I looked at a number of other indicators for evidence that coal counties were improving faster than other counties, but there was none. (Coal and farm counties lag on sewer and water systems too, even though coal counties are more densely populated than manufacturing). You might be able to say that the growth prevented coal counties from sliding further back, but since the farm counties improved without growth, you can't say even that with certainty. There are two trends here.

- * Conditions in all of rural Kentucky improved, and in some cases counties with the poorest conditions in 1960 "caught up" with other counties by 1980 (education excepted).
- * Overall, however, conditions in 1960 were the best predictor of conditions in 1980, the greater economic growth in coal counties notwithstanding.

It appears that public and private reinvestment of the greater economic growth in coal counties failed to occur. Why?

For one thing, income and work are distributed much more <u>unequally</u> in coal counties. Coal counties have the highest earnings per job and the highest average pay, but the lowest per capita tax revenues and savings deposits. They have the same proportion of working age and elderly people as the other county groups (despite the myth that they have more dependency), but they have a greater proportion of families with no worker. Almost one fourth of the families in coal counties reported no worker in the family!

Finally, and importantly for coal counties' future, coal counties have an alarmingly greater proportion of teenagers who are not in school, the army, working or looking for work. Fully 36% of the 16-19 year olds in coal counties have nothing to do, and that does not include teens who are looking for work or in school.

In sum, coal counties have "skewed" economies, a kind of dual economy, with some miners and coal operators earning good money, and a lot of families and households that are at the bottom of the ladder. When this dual economic structure combines with the mountainous topography and dependence upon a single industry that we have in eastern Kentucky, there is not much potential for income growth to stimulate development.

Of course, coal is volatile, and even since 1980, as you know, thousands of miners have been laid off in the Kentucky coal fields. In fact, even when the UMW and BCOA negotiated a new contract without a strike, miners and communities in the coal fields "absorbed" all the negative effects of that agreement. Utilities had overstocked in anticipation of the strike, and so demand for coal declined dramatically. Coal companies laid off workers, and coal communities dependent upon coal employment faced another hard winter. Miners and their communities bore the cost of that volatility.

This recent episode in coal volatility (and the fact that coal miners and communities absorb its impact) suggests why coal income does not get reinvested in the community. The money represented by greater economic growth in coal counties is not being invested by wage earners or local entrepreneurs, as far as we can tell, because these gains end up being transient. Miners and operators may "consume" rather than "invest" their income gains because they don't really see a future for their communities.

Of course, I don't need to tell this group that the public sector, for its part, isn't doing much better. The severance tax on coal production, as you know, provides some 8 percent of the state's revenue. But the state doesn't "invest" this money either — it used it to replace food sales tax revenues in 1972, and ever since has poured the bulk of it into the general fund, "consuming" the revenue from a non-renewable resource. I think that the severance tax has enabled state to avoid raising property taxes and individual income taxes. This translates into coal field subsidy of the rest of the state.

Half of the severance tax funds over \$177 million go back to coal producing and coal impacted counties, and most of the money is used for roads. As you know, there is a formula which requires a certain portion to be used for roads, but often your coal counties use an even greater proportion than required on roads.

For example, in Martin County in 1982 severance tax revenue of \$1.2 million made up 54% of all county revenue, and 82% of that money was spent on roads and 16% on administration. (Overall, 61% of total expenditures were on roads.) When coal counties did not receive expected severance tax revenues in recent years because production was down, basic county budget items went unfunded. Neither the state nor the counties reinvest the revenue from coal production. And both entities face uncertain revenue sources from coal — coal is just as volatile for the public sector as it is for the private sector.

FUTURE TRENDS IN COAL PRODUCTION, PRODUCTIVITY AND EMPLOYMENT

The Energy Information Administration of the Department of Energy has made forecasts of future coal production for the nation and for Kentucky. DOE forecasts are a fairly common standard, but the numbers they released were considered high, even by the National Coal Association, which projects fewer tons ten years from now. Therefore, DOE revised its projections recently. We are revising our own numbers, and using Mine Health and Safety Administration figures for employment since they will be more accurate.

To give you an idea of trends in production and employment in coal, however, I am going to show you our earlier forecasts. While these will be revised for our reports in the fall, the older numbers still reflect the overall trends accurately.

We took 90 percent of the DOE forecasts as a reasonable figure. (These figures are lower than the KY Dept of Mines and Minerals because the latter counts everyone who worked in the industry, as if they worked steadily. This difference adds about 25% to employment. Thus you hear that we have 45,000 miners, but actually DOE says in 1983 Kentucky had about 36,433 miners, and MSHA says we had about 32,284).

Our 90% of DOE projects that coal production in Kentucky will rise from 128,694,000 tons in 1983 to about 178,074,000 tons in 1995. If there were no continued increases in productivity, that would mean a net increase in Kentucky coal employment of about 20,000 in 1995.

However, the industry is increasing productivity, and doing so at a steady pace. If you look at this graph of Kentucky productivity between 1975 and 1983, you can see that miners produced more tons of coal over the last few years. In 1980 Kentucky coal miners produced 1.75 tons per hour. In 1981 each miner produced 1.84 tons per hour, and by 1983 each miner was producing an average of 2.09 tons per hour.

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The coal executives with whom we have talked all agree about increased productivity in the past few years. The boom of the late 1970s meant a scramble, and added new producers as well as new, less efficient workers and managers in big operations. These inefficiencies are being "shaken out" now. The coal industry leaders with whom we have spoken confirm that productivity will continue to increase, and their annual reports all predict future profitibility in coal divisions on the basis of increased productivity. Increased productivity, of course, translates into declining employment.

Between 1980 and 1983, Kentucky coal employment declined by 9,962 people. Of course this decline represented a decline in production as well as an increase in productivity, but productivity is likely to increase still further. Annual Kentucky coal production is predicted to increase by about 49 million tons between 1983 and 1995. If there were an annual increase in productivity of 4%, which is a reasonable figure according to industry leaders and analysts, Kentucky would experience a net loss of 4,735 jobs, even though we produce more coal.

Production increases and productivity increases will, of course, vary by region, seam, type of mining and type of coal. East Kentucky production is likely to rise more than other areas, especially deep mines. There will be less surface mining because the easily stripped coal is being mined out, and the regulations are making it less profitable for small operations to strip mine. Western Kentucky, as you realize, is particularly vulnerable to the effects of acid rain legislation since the coal is higher sulfur. What we see in western Kentucky is fewer, larger mines that are holding their production steady through long term contracts, but not experiencing much growth. The uncertainty represented by the potential for new environmental legislation makes it hard for western Kentucky coal companies to crack new markets.

These figures are currently being revised by MACED staff and consultants. We have contracted with Energy Ventures Analysis, a highly sophisticated

energy consulting firm in Washington, to conduct an extensive analysis of productivity in Central Appalachian and Kentucky coal. EVA will be providing us with subregion projections, including seam-by-seam analyses of production and productivity over the next 15 years, as well as a survey of 100 large mines.

WHAT DOES THIS MEAN FOR THE FUTURE OF KENTUCKY COAL COUNTIES?

First, citizens and public officials throughout Kentucky need to recognize that growth in coal, under current policies, does not bring greater improvement in the standard of living in coal counties. Just recognizing that fact is a big step.

Secondly, we need to realize that coal <u>employment</u> is unlikely to grow. The people who lost jobs between 1980 and 1983 are unlikely to find employment in the coal industry again. My understanding is that people have already begun to leave the coal regions again, looking for work and a future for their families in Florida, Texas, and elsewhere. I fear that the coal counties of Kentucky are on the verge of serious emigration again, and that you will lose valuable people on whom your future depends. (I hope to put together a survey of coal counties this fall to see the extent of unemployment, emigration, and what people are planning to do.)

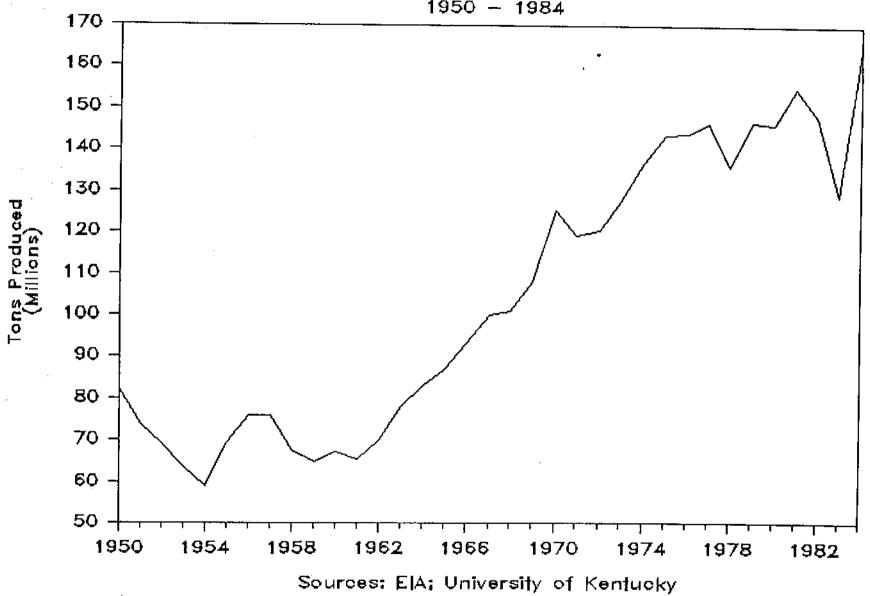
Clearly, all of this suggests that the whole state must take part in planning for the future of its coal producing regions. We cannot expect the coal industry to privide an adequate economic base for the people of the coal fields. The numbers I showed you this morning indicate that even when coal counties experienced dramatic economic growth, when production, employment and the price of coal rose dramatically, the quality of life in coal counties did not improve at a comparable rate. On top of these disappointing findings, the future expansion of coal employment looks dim.

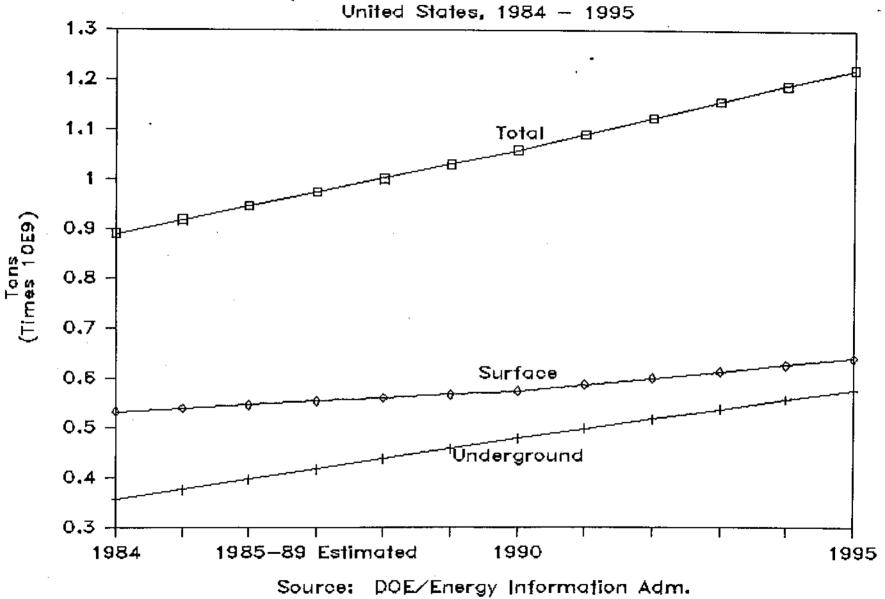
We are developing some ideas at MACED, but we think the real key to change is going to come out of energetic and constructive discussion in forums throughout the state, and particularly the coal fields. We think that the coal field counties have, in effect, been subsidizing cheap energy for American consumers all across the nation, as well as subsidizing the state of Kentucky. Your counties absorb the costs of roads, water problems and the ups and downs of coal demand, and that is the main reason that the

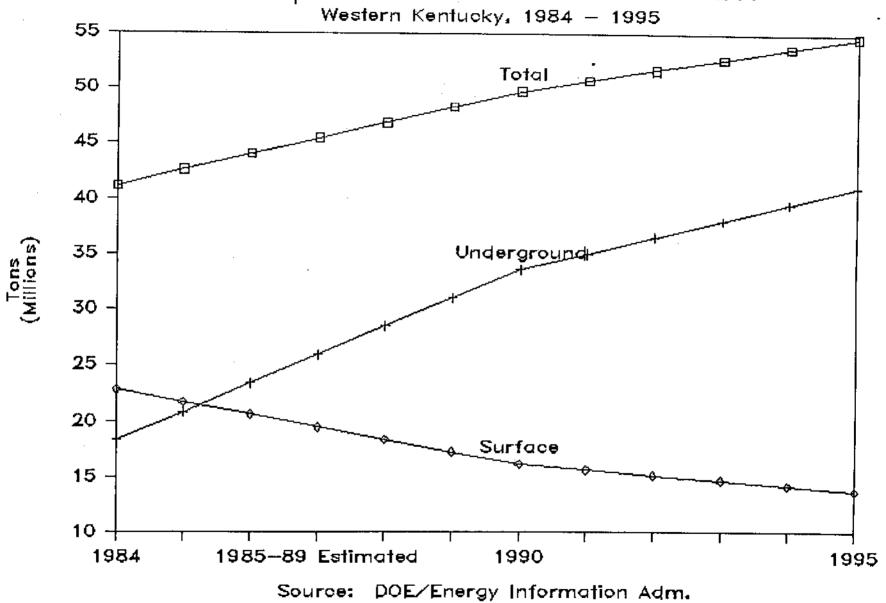
quality of life in coal counties lags behind the rest of the nation. As a nation and as a state, we have failed to develop a comprehensive economic policy. We have pieced together tax policies and environmental policies which are designed to promote growth in coal, protect American energy consumers, protect the environment, and protect the health and safety of miners. We have never devised policies to develop the coal fields.

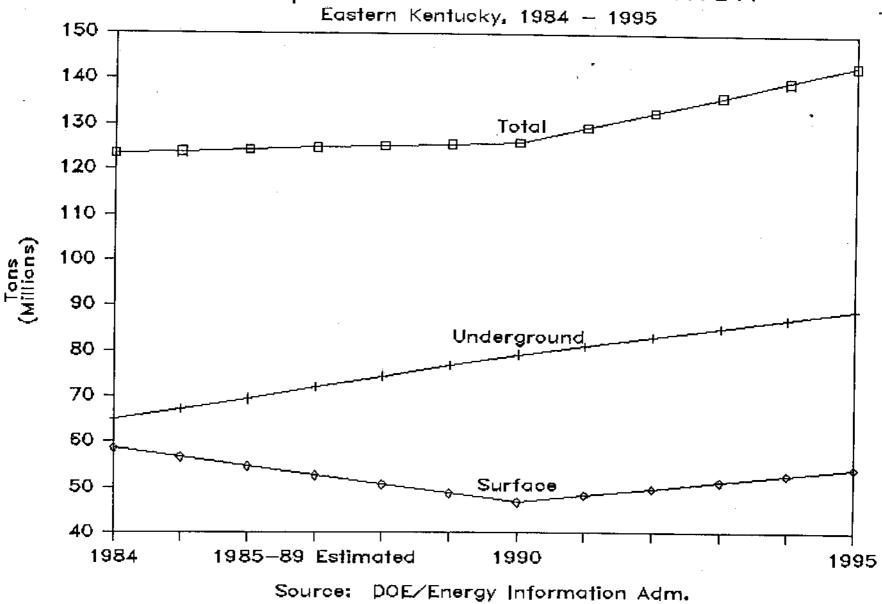
APPENDIX

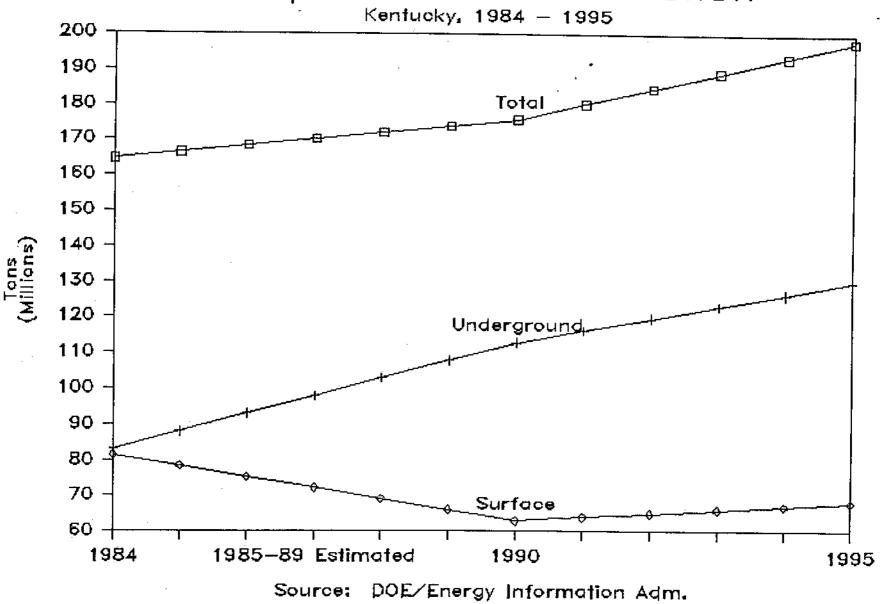
Kentucky Coal Production



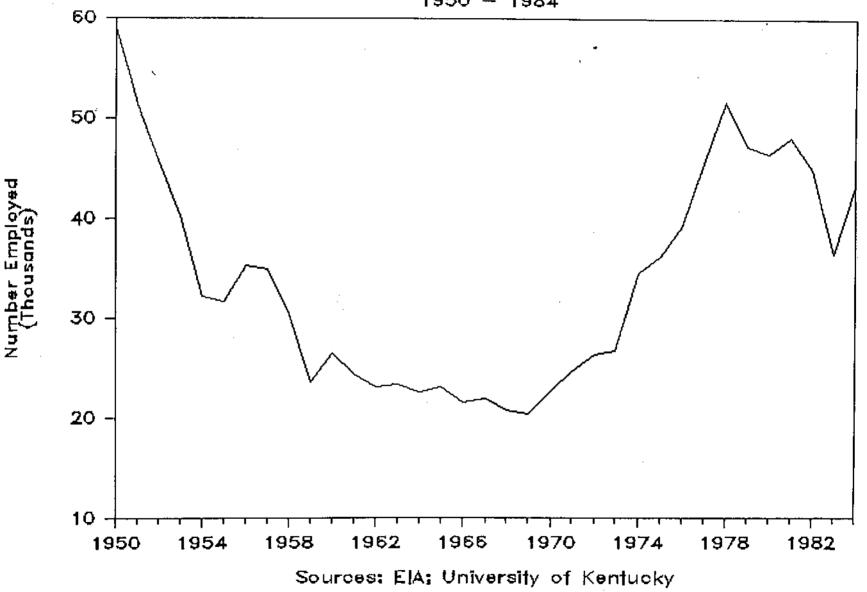




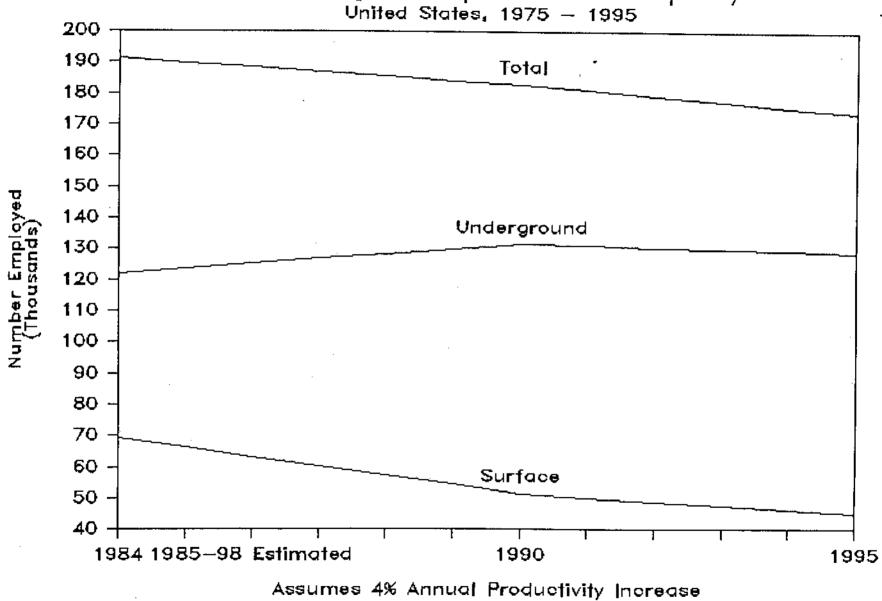




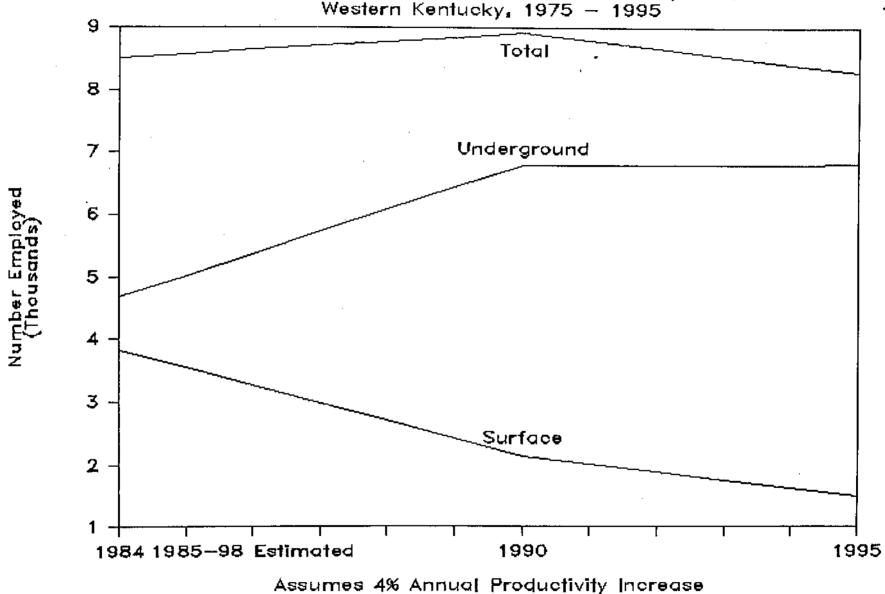
Kentucky Coal Mining Employment



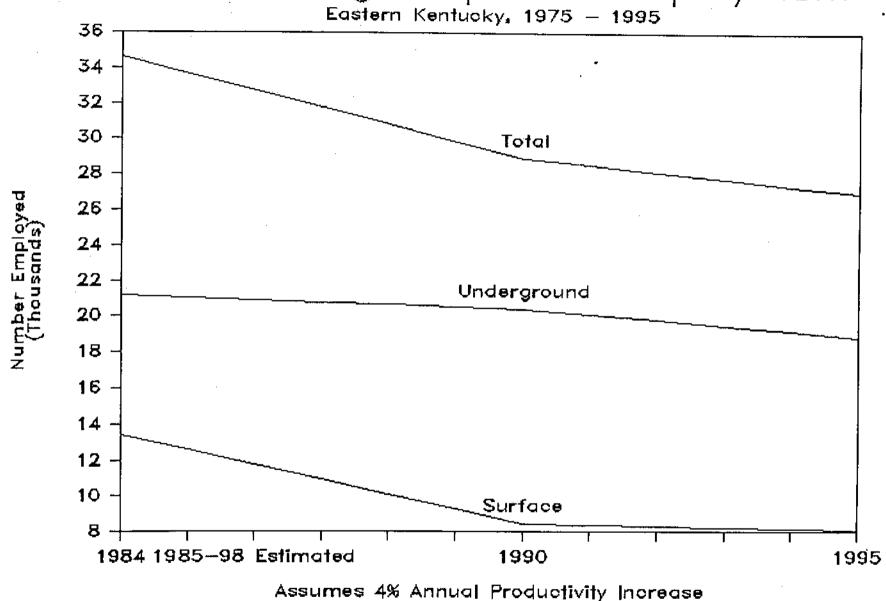
Coal Mining Projected Employment



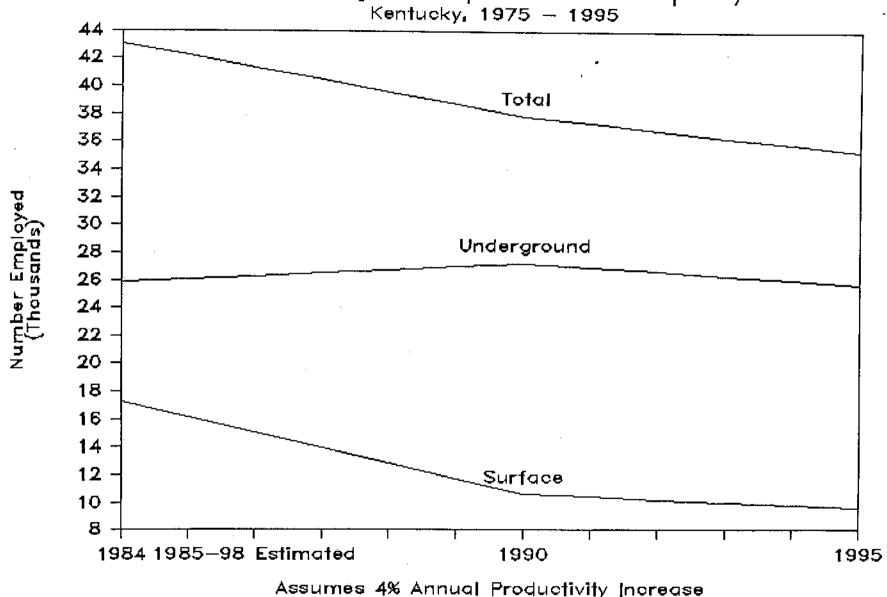
Coal Mining Projected Employment Western Kentucky, 1975 - 1995



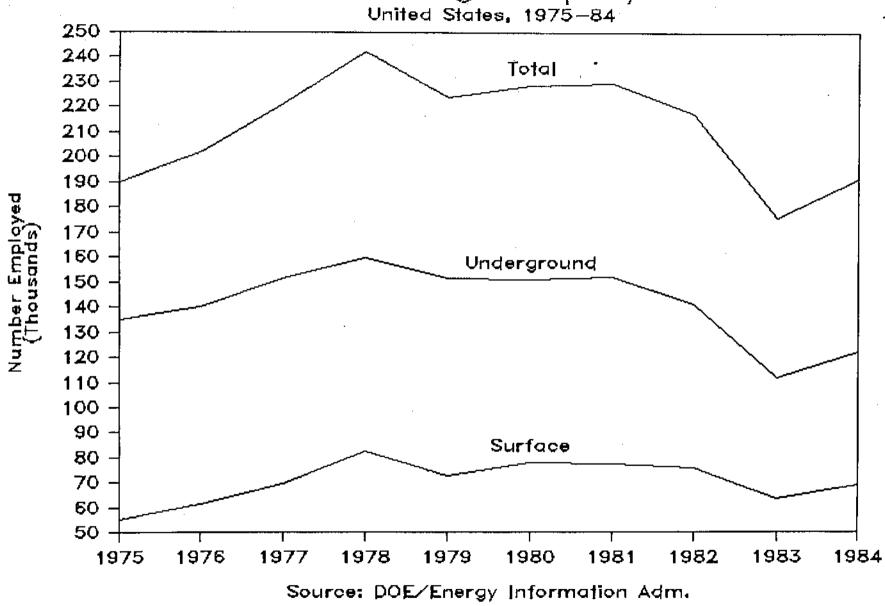
Coal Mining Projected Employment



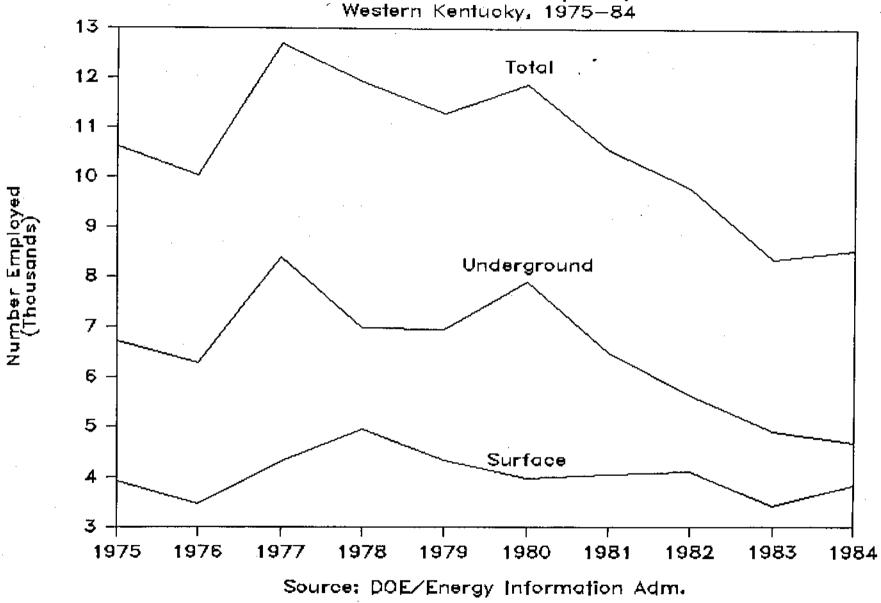
Coal Mining Projected Employment

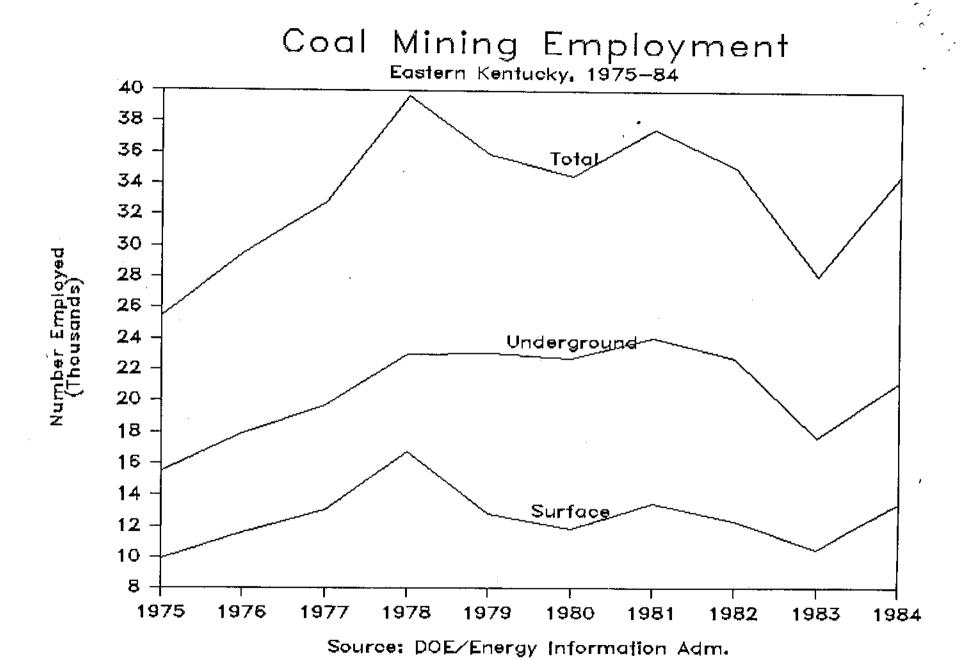


Coal Mining Employment

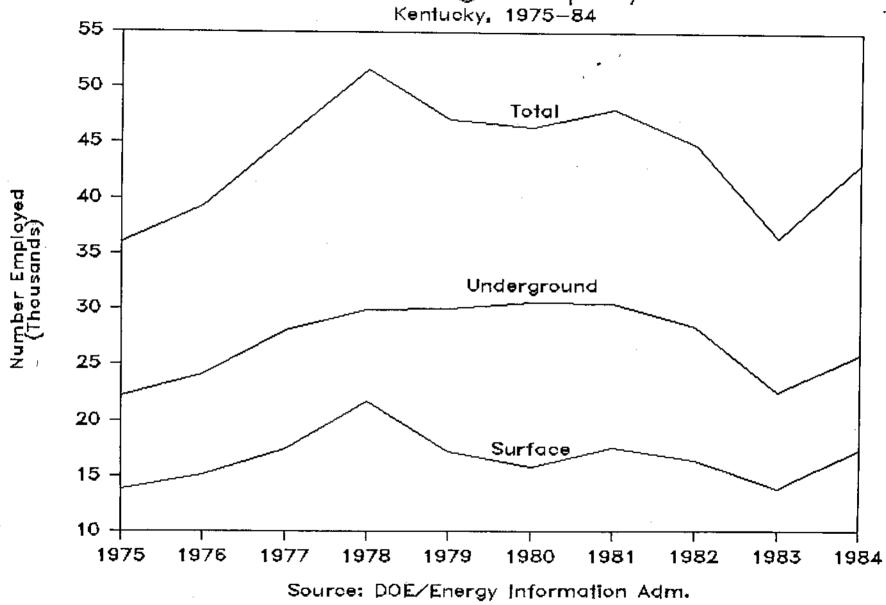


Coal Mining Employment Western Kentucky, 1975-84

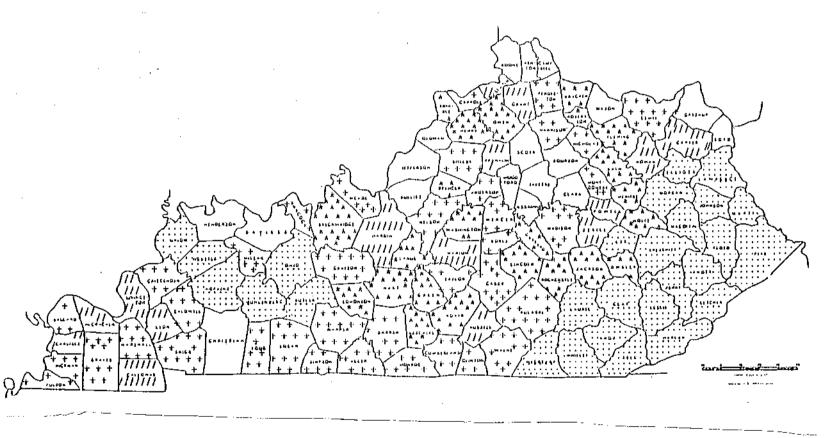




Coal Mining Employment

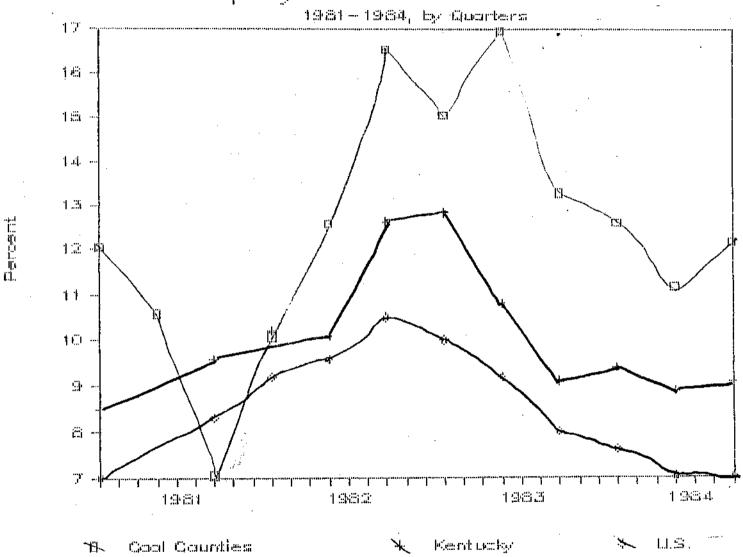


ECONOMIC BASE IN NONMETROPOLITAN KENTUCKY



... COAL /// GOVT-MIX *** FARM +++ MANU SMSA'S

Unemployment in Coal Counties



March 20, 1985

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PRESS RELEASE --

POLL SHOWS KENTUCKIANS SUPPORT PROPOSALS TO IMPROVE COAL COMMUNITIES

Kentuckians have expressed wide support for proposals to improve conditions in coal mining regions of the state, according to a recent survey commissioned by the Mountain Association for Community Economic Development (MACED). Four out of every five Kentucky adults interviewed believes that Kentucky should step up enforcement of existing laws and regulations in an effort to prevent coal mining from damaging the surrounding areas.

Another strong majority (83%) would favor coal communities negotiating with coal companies for help in paying for community services. Communities in some western states such as Colorado and Wyoming have been successful in getting direct help with community costs from coal companies.

Seventy percent of those surveyed also favor increasing Kentucky's coal severance tax if the additional revenue were used to finance improvements in coal county schools, water systems and roads. There was less consensus, however, on the use of coal tax money to attract new industry to coal mining areas. Forty-eight percent of the sample agreed that some tax

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money should be set aside for this purpose, even if it meant less to spend on other programs, while 40% disagreed.

With coal mining employment dependent upon a fluctuating demand for energy, the possibility of stabilizing coal production with a national energy plan has been discussed. Such a plan would require utilities to use a certain amount of coal, as opposed to other fuels. When asked about this idea, 60% of the Kentuckians interviewed were in favor, and 22%, opposed. Not surprisingly, individuals living in coal producing parts of the state were much more likely to favor this proposal. Over two-thirds of those residing in the eastern and western coal fields, 71% and 72%, respectively, favored the national energy plan proposal. In contrast, just over half (53%) of those respondents not living in coal-producing areas favored it.

A majority of Kentuckians (54%) are ready for policy changes, even if it means some loss of coal mining jobs. However, thirty percent felt that Kentucky should make no changes because coal mining jobs would be lost, and 16% did not know. People living in rural areas and small towns were more concerned about potential loss of coal mining jobs (34% agreeing with the statement), than were residents of urban areas (20% in agreement). Cynthia Duncan, Research Director at MACED, believes these results indicate that Kentuckians are ready for policy proposals that return more of the benefits of mining to coal communities, "Kentuckians are fair-minded, and

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the survey responses show that they are likely to support state initiatives to improve conditions in the coal fields."

The survey was conducted by the University of Kentucky Survey Research Center between October 15-26, 1984. A total of 743 Kentucky citizens eighteen years of age and older were interviewed by telephone. The margin of error for all questions was plus or minus four percent at the 95% confidence interval. This means that the results reported can be expected to vary by no more than four percent in either direction from what would have been obtained if every residential telephone number in the state had been called.

Now I'd like to change the subject just a bit and talk about issues related to coal mining in Kentucky. People have suggested a number of changes to help solve problems in coal counties such as bad roads, water pollution, and inadequate funds for schools. I'd like to ask you about some of these.

Do you think we should stabilize coal production with a national energy plan that would require utilities to use a certain amount of coal as opposed to other fuels?

Yes	419	56.9	. .
Yes, depends	26	3.5	60.4
No	163	22.1	
Don't know	129	17.5	
Refused	3	_	
Not asked	3	-	

Do you think we should step up enforcement of existing laws and regulations to prevent mining from damaging coal areas?

Yes	601	81.2
No	73	9.9
Don't know	66	8.9
Refused	1	-
Not asked	2	_

Communities in western states like Colorado and Wyoming have negotiated with coal companies for help in paying for roads, schools, and other community services. Do you think coal communities in Kentucky should do the same thing?

Yes	609	82.5
No	49	6.6
Don't know	80	10.8
Refused	2	
Not asked	3	_

Right now, the tax on coal production in Kentucky is about four percent. Some states have no severance tax at all. Others have tax rates that are five to six times higher than Kentucky's. If the money were to be used for the improvement of schools, roads, and water systems in coal-producing counties, would you favor or oppose increasing Kentucky's coal severance tax?

Favor	515	69.8
Oppose	108	14.6
Don't know	115	15.6
Refused	1	
Not asked	_ 1	_

Some people think that a portion of the money obtained from coal taxes should be set aside to attract new industry to coal counties, even if it means that there is less to spend on other programs. Do you agree or disagree?

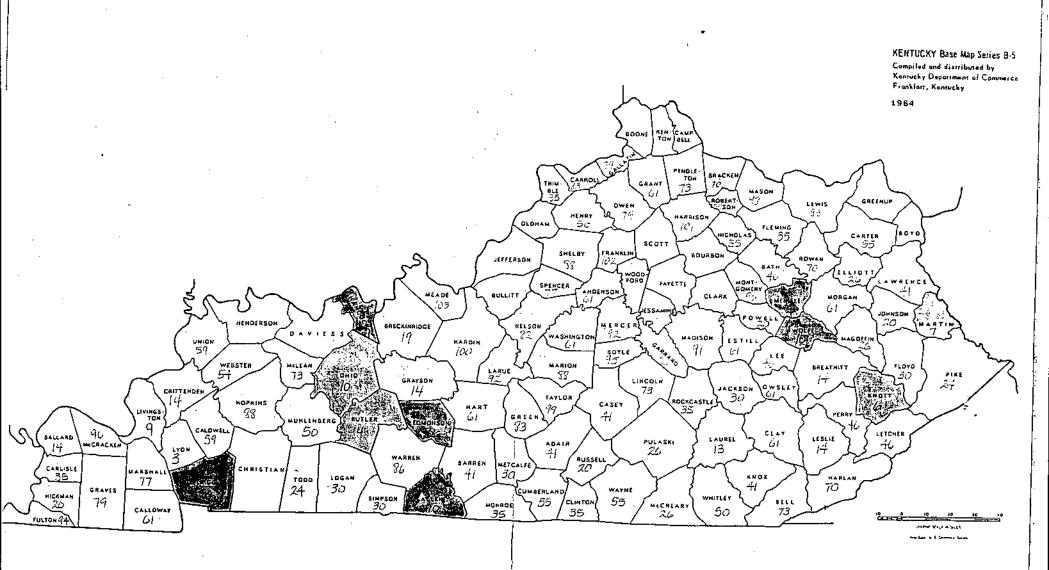
Agree	352	47.9
Disagree	290	39.5
Don't know	93	12.7
Refused	2	-
Not asked	6	-

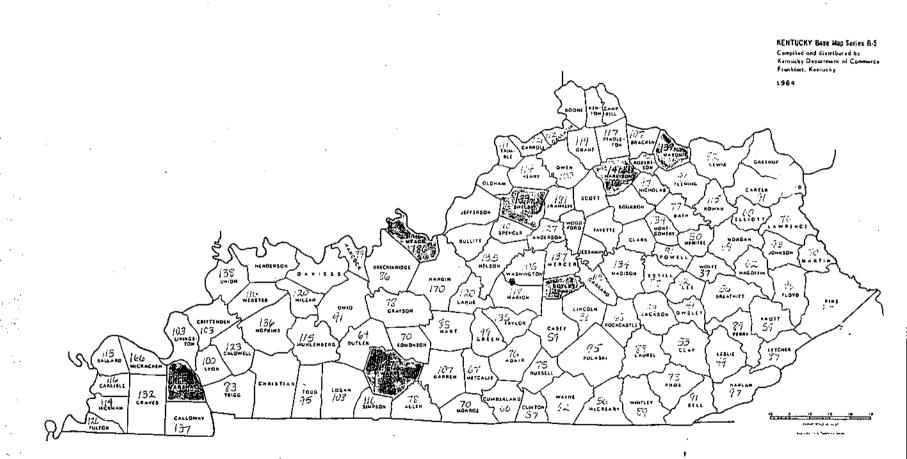
Some people also say we should make no changes in laws and policies related to the coal industry because changes might means the loss of coal mining jobs. Do you agree or disagree?

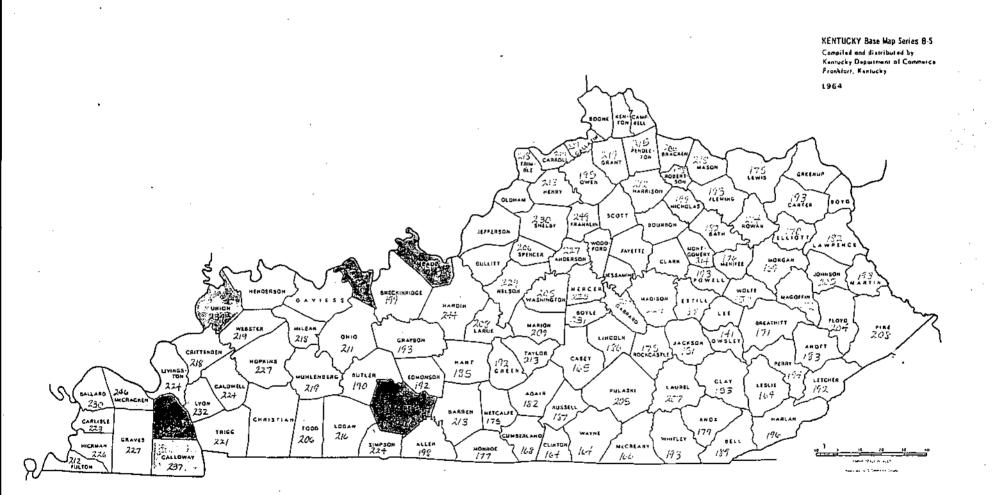
Agree	217	29.7
Disagree	396	54.2
Don't know	118	16.1
Refused	3	-
Not asked	9	_

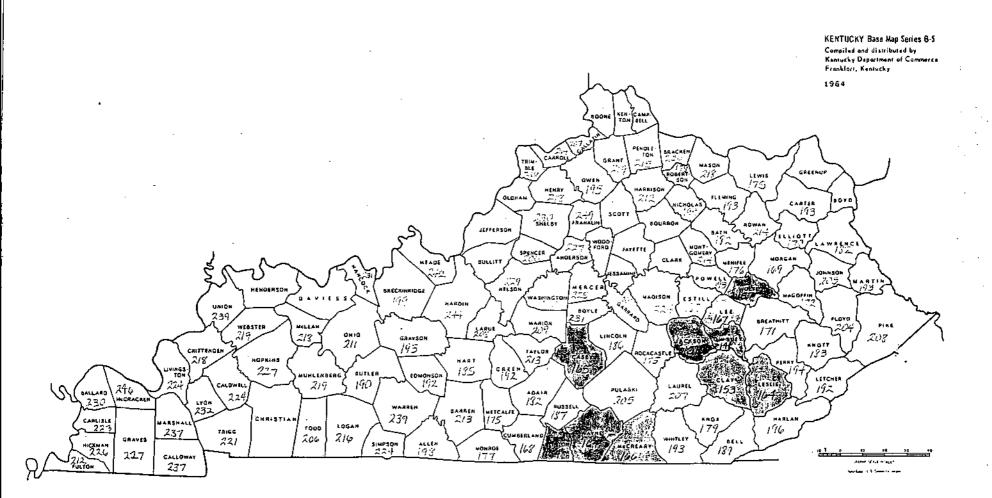
TEN COUNTIES "MOST IMPROVED"

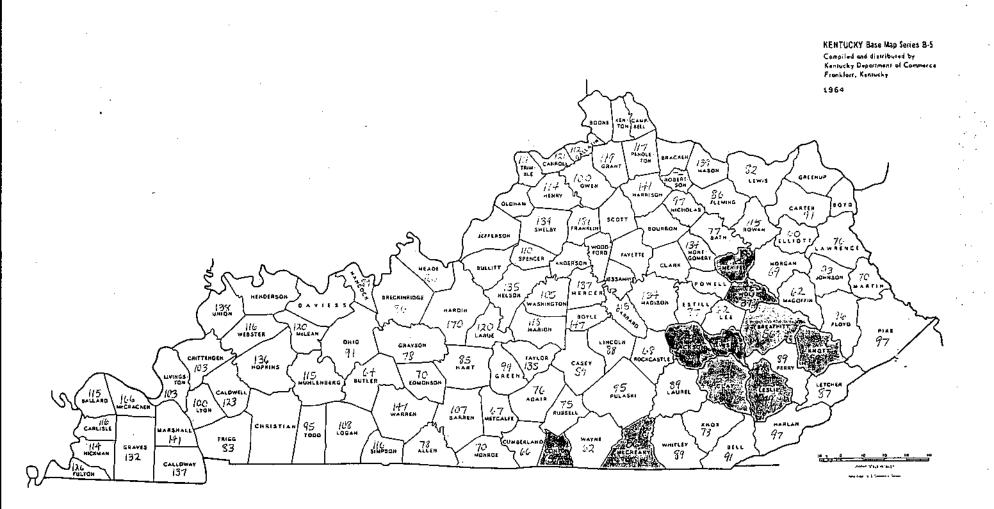
1960-1980











CONAMEO1	GROWTH	DEVEL60	DEVEL80	DEVDIFF	LOINC60	LOINC80
BELL	174	91	189	98	59	31
BREA	225	56	171	115	76	39
BUTL	192	64	190	126	63	26
CLAY	165	53	153	100	73	44
ELLI	172	60	170	110	65	34
FLOY	122	96	204	108	53	24
HARL	145	97	196	99	49	27
HOPK	105	136	227	91	39	17
JOHN	206	93	205	112	57	26
KNOT	209	59	183	124	71	33
KNOX	153	73	179	106	70	37
LAUŘ	78	89	207	118	61	25
LAWR	162	76	182	106	64	34
LEE	90	62	167	105	66	40
LESL	173	49	164	115	73	3 9
LETC	132	87	192	105	55	28
MCCR	123	56	166	110	72	43
MAGO	237	62	172	110	76	36
MART	446	70	193	123	63	29
MORG	100	69	169	100	67	41
MUHL	103	115	219	104	46	19
OHIO	154	91	211	120	57	23
PERR	154	89	194	105	55	26
PIKE	185	97	208	111	53	22
UNIO	123	138	239 219	101	42	14
WEBS	177	116		103	47	20
WHIT	123	8 9	193	104	62	31
A11 KY AVG	106	108	207	99	51	25

GROWIH	Percent change in earned income, 1960-1980, constant dollars
DEVEL60	Index adding percent families not low income, plus percent
	adults with high school education, plus percent housing
	units with complete plumbing (1960)
DEVEL80	Index for 1980
DEVDIFF	Change in development index, 1980 minus 1960

LOINC60 Percent families with incomes below \$3000, 1960
LOINC80 Percent families with incomes below \$7500, 1980

CONAMEO1	PPLUMB60	PPLUM80	PHIGHS60	PHIGHS80	AVGERN80	AVGPAY80	
BELL	. 32	84.35	18	36	14942	267	
BREA	20	72.36	12	37	17158	359	
BUTL	13	81.75	14	35	8661	185	
CLAY	15	69.63	10	28	13690	262	
ELLI	15	73.10	9	31	8083	220	
FLOY	15 33	88.29	16	40	16346	284	
HARL	28	84,52	18	38	17754	317	
HOPK	52	94.05	23	50	14601	274	
JOHN	32	87.73	19	43	12919	237	
KNOT	20	80.28	11	36	15691	266	
KNOX	27	80.36	16	36	11700	215	
LAUR	33	89.02	18	42	11809	233	
LAWR	26	79.80	14	36	11458	220	
LEE	14	71.75	13	. 35	10503	212	
LESL	13	72.45	9	31	12357	235	
LETC	28	81.84	13	38	16972	296	
MCER	19	80.25	· 9	29	10423	202	
MAGO	23	78.88	15	. 30	13232	282	
MART	23	87.20	10	34	27969	483	
MORG	23	79.67	14	30	9717	219	
MUHL	40	93.43	20	45	17192	316	
OHIO	32	89.69	17	44	13792	298	
PERR	27	82.81	16	37	17307	302	
PIKE	34	91.75	16	38	18952	320	
UNIO	51	96.63	30	56	15616	332	
WEBS	40	91.69	23	47	14448	314	
WHIT	34	83.79	18	41	12041	220	
			.				
ALL KY AV	38	87	21	45	10866	223	
	TOTTOGO						

PPLUMB	Percent hou	using units with complete plumbing, 1960
PPLUM8	Percent hou	using units with complete plumbing, 1980
PHIGHS	60 Percent ad	ults with high school education, 1960
PHICHS	Percent adu	ults with high school education, 1980
AVGERNE	30 Average ann	nual earnings per job, 1980
AVGPAY	30. Average wee	ekly wage, 1980

CONAMEOI	PCTWKAGE	PCTNOWKR	UNEMKIDS	INCPC80	MFAINC79	PCTTRN80	PCTERN80	PSIXTY80
BELL	.56	27	35	6476	11913	26	63	12
BR <u>ea</u>	.55	28	37	5203	10796	2 6	66	10
BUTL	56	18	26	5215	13013	25	67	14
CLAY	54	30	51	5092	8901	27	65	10
ELLI	.55	18	30	4460	10961	22	66	11
FLOY	57	23	36	6127	14374	25	65	10
HARL	56	25	39	6719	13376	25	66	11
HOPK	57	14	24	9215	18442	17	72	13
JOHN	57	21	32	6553	14209	22	67	11
KNOT	55	28	37	5199	12085	26	67	9
KNOX	55	29	42	4925	10425	26	63	12
LAUR	57	18	31	566 9	13390	20	69	11
LAWR	55	25	44	5709	11500	24	68	13
LEE	.54	30	24	4440	9506	34	56	15
LESL	56	31	47	4677	10728	27	68	8
LETC	56	26	36	5971	12702	26	66	· 10
MCCR	54	28	3 9	4016	8746	38	55	10
MAGO	55	25	47	4885	10721	25	65	9 8
MART	54	22	40	6885	15646	17	- 76	8
MORG	56	22	44	4500	9114	27	62	12
MUHL	57	18	. 31	8148	17130	19	69	14
OHIO	56	17	29	7083	16150	19	70	14
PERR	56	24	43	6326	14084	25	68	10
PIKE	. 58	22	29	7196	15436	18	72	8
UNIO	57	13	46	7876	19739	13	71	- 11
WEBS	55	19	32	8808	16904	18	69	16
WHIT	57	22	26	6414	11823	30	60	12
ALL KY AVG	57	16	. 25	6376	14435	20	67	12

PCTMKAGE Percent of the poulation over 16 years of age, 1980

PCTNOWKR Percent of families with no worker in 1979

UNEMKIDS Percent of 16-19 year olds not in school, not working, not looking for work, and not in the army

INCPC80 Per capita income, 1980

MFAINC79 Median family income, 1979

PCTTRN80 Percent of total income from transfer payments, 1980

Percent of total income from earnings, 1980

Percent of population 65 years and older

PCTERN80

PSIXTY80

PROPORTION OF POPULATION 16 YEARS AND OLDER EMPLOYED, 1980 AND 1982

	Population 16 and Over 1980	Employment 1980	Percent Employed 1980	Population 16 and Over 1982	Employment 1982	Percent Employed 1982
BELL	24670	11553	0.47	24773	11661	0.77
BREATHITT	11797	6635	0.56	11691	6477	0.47
BUTLER	8239	3325	0.40	8153	3396	0.55
CLAY	` `15584	6798	0.44	15872	7464	0.42
ELLIOTT	4807	3174	0.66	4781	2378	0.47
FLOYD	34586	13805	0.40	35440	14423	0.50
HARLAN	29604	11254	0.38	30194	11074	0.41
HOPKINS	34308	20710	0.60	34658	19748	0.37
JOHNSON	17737	7902	0.45	18015	8216	0.57
KNOTT	12354	4089	0.33	12572	4435	0.46
KNOX	21268	10963	0.52	21415	10428	0.35
LAUREL	27940	17604	0.63	28759	19426	0.49
LAWRENCE	10147	3349	0.33	10230	3472	0.68
LEE	5679	1688	0.30	5610	1813	0.34
LESLIE	10116	4066	0.40	10346	4060	0.32
LETCHER	21458	5960	0.28	21494	5536	0.39
MCCREARY	10765	4086	0.38	11068	4651	0.26
MAGOFFIN	9128	4577	0.50	9345	5311	0.42
MARTIN	9251	8097	0.88	9585	7979	0.57
MORGAN	8712	4631	0.53	8791	4614	0.83
MUHLENBERG	23936	12818	0.54	23787	13492	0.52
OHIO	16003	10909	0.68	15 7 07	10011	0.57
PERRY	23449	11265	0.48	23697	11083	0.64
PIKE	56849	28456	0.50	57559	30455	0.47
UNION	13457	9178	0.68	13469	9482	0.53
VEBSTER	11088	6605	0.60	11051	5987	0.70
WHITLEY	24407	9325	0.38	24744	9018	0.54 0.36
				2-11-1	7010	0,30
AVERAGE (ALL Ky EXCER Fayette Coun		12866	0.54	22980	12664	0.53

PROPORTION OF POPULATION 16 YEARS AND OLDER EMPLOYED, 1984

COUNTY NAME	Population 16 and Over 1982	Employment 1984	Percent Employed 1984
BELL BREATHITT BUTLER CLAY ELLIOTT FLOYD HARLAN HOPKINS JOHNSON KNOTT KNOX LAUREL LAWRENCE LEE LESLIE LETCHER MCCREARY MAGOFFIN MARTIN MORGAN MUHLENBERG OHIO PERRY PIKE UNION	24773 11691 8153 15872 4781 35440 30194 34658 18015 12572 21415 28759 10230 5610 10346 21494 11068 9345 9585 8791 23787 15707 23697 57559 13469	11455 6249 3418 8043 2664 13431 10653 19289 7931 4132 11082 20384 3824 2024 3863 5628 4234 5464 7355 4024 12178 10487 10555 28033 8774	0.46 0.53 0.42 0.51 0.56 0.38 0.35 0.56 0.44 0.33 0.52 0.71 0.37 0.36 0.37 0.26 0.38 0.58 0.77 0.46 0.51 0.45
WEBSTER WHITLEY	11051 24744	5338 9091	0.48 0.37

AVERAGE

22980

13076

0.55

(ALL Ky EXCEPT Fayette County)

COAL COUNTY TAX RECEIPTS

COUNTIES	POPULATION YEAR 1980	KENTUCKY INDIVIDUAL INCOME TAX ROUNDED TO 000	KENTUCKY INDIVIDUAL INCOME TAX PERCAPITA	SALES AND USE TAX RECEIPTS ROUNDED TO 000	SALES AND USE TAX RECEIPTS PERCAPITA
BELL BREATHITT BUTLER CLAY ELLICTT FLOYD HARLAN HOPKINS JOHNSON KNOTT KNOX LAUREL LAWRENCE LEE LESLIE LETCHER McCREARY MAGOFFIN MARTIN MORGAN MUHLENBERG OHIO PERRY	34330 17004 11064 22752 6908 48764 41889 46174 24432 17940 30239 38982 14121 7754 14882 30687 15634 13515 13925 12103 32238 21765 33763	4235 1847 1043 2102 443 6462 6132 8704 3451 2012 2592 4616 1536 619 1740 3935 1025 1332 2532 945 5163 2881 5407	123 109 94 92 64 133 146 189 141 112 86 118 109 80 117 128 66 99 182 78 160 132 160	7501 1302 709 2562 252 7434 7679 10076 4654 1168 3249 6661 1281 708 816 4235 1047 813 2522 929 4187 2814	218 77 64 113 36 152 183 218 190 65 107 171 91 91 55 138 67 60 181 77 130 129
PIKE UNION WEBSTER WHITLEY	81123 17821 14832 33396	13536 3083 2677 3497	167 173 180 105	7066 15906 3111 1542 9020	209 196 175 104 270

COAL COUNTY REVENUE

COUNTIES	POPULATION YEAR 1980	TOTAL REVENUE	TOTAL REVENUE PERCAPITA	FEDERAL GOVERNMENT REVENUE	FEDERAL GOVERNMENT REVENUE PERCAPITA
BELL BREATHITT BUTLER CLAY ELLIOTT FLOYD HARLAN HOPKINS JOHNSON KNOTT KNOX LAUREL LAWRENCE LEE LETCHER McCREARY MAGOFFIN MARTIN MORGAN MUHLENBERG OHIO PERRY PIKE	34,330 17,004 11,064 22,752 6,908 48,764 41,889 46,174 24,432 17,940 30,239 38,982 14,121 7,754 14,882 30,687 15,634 13,515 13,925 12,103 32,238 21,765 33,763 81,123	2,224,000 2,359,000 1,480,000 4,895,000 1,169,000 2,974,000 5,895,000 4,416,000 4,509,000 2,109,000 4,837,000 1,745,000 1,745,000 1,783,000 1,783,000 2,170,000 2,170,000 2,170,000 2,713,000 1,719,000 2,357,000 2,936,000 1,389,000 3,851,000 5,490,000 3,067,000 7,701,000	64.78 138.73 133.77 215.15 169.22 60.99 140.73 95.64 184.55 117.56 159.96 44.76 126.27 197.19 145.81 88.41 109.95 174.40 210.84 114.76 119.46 252.24 90.84 94.93	356,000 338,000 185,000 1,405,000 113,000 346,000 2,111,000 364,000 576,000 256,000 325,000 211,000 244,000 194,000 276,000 300,000 227,000 192,000 245,000 243,000 306,000 176,000 807,000	10.37 19.88 16.72 61.75 16.36 7.10 50.40 7.88 23.58 14.27 10.75 5.41 17.28 25.02 18.55 9.78 14.52 14.52 14.21 17.59 20.08 9.49 8.09 7.82 9.95
UNION WEBSTER WHITLEY	17,821 14,832 33,396	3,031,000 2,148,000 2,778,000	170.08 144.82 83.18	215,000 169,000 357,000	12.06 11.39 10.69

COUNTIES	STATE GOVERNMENT REVENUE	STATE GOVERNMENT REVENUE PERCAPITA	TOTAL GENERAL REVENUE OWN SOURCES	TOTAL GENERAL REVENUE OWN SOURCES PERCAPITA
BELL BREATHITT BUTLER CLAY ELLIOTT FLOYD HARLAN HOPKINS JOHNSON KNOTT KNOX LAUREL LAWRENCE LEE LESLIE LETCHER McCREARY MAGOFFIN MARTIN MORGAN MUHLENBERG OHIO PERRY PIKE	1,039,000 1,689,000 860,000 3,116,000 797,000 1,839,000 2,235,000 2,283,000 3,399,000 1,523,000 1,658,000 681,000 994,000 1,171,000 1,394,000 1,249,000 1,249,000 1,826,000 1,988,000 874,000 2,574,000 1,608,000 2,014,000 4,321,000	30.27 99.33 77.73 136.95 115.37 37.71 53.36 49.44 139.12 84.89 54.83 17.47 70.39 151.02 93.67 63.32 79.89 135.11 142.76 72.21 79.84 73.88 59.65 53.26	829,000 332,000 393,000 374,000 259,000 789,000 1,501,000 534,000 330,000 2,850,000 852,000 545,000 164,000 500,000 470,000 243,000 278,000 703,000 272,000 969,000 3,668,000 789,000 2,486,000	24.15 19.52 35.52 16.44 37.49 16.18 35.83 38.12 21.86 18.39 94.25 21.86 38.60 21.15 33.60 15.32 15.54 20.57 50.48 22.47 30.06 168.53 23.37 30.64
UNION WEBSTER WHITLEY	2,107,000 1,387,000 1,686,000	118.23 93.51 50.49	. 688,000 592,000 732,000	38.61 39.91 21.92

TAX COUNTY PERCENT OF PERCENT OF GENERATED RECEIVED SEVERANCE TAX TOTAL GENERATED REVENUE	SPENT ON ROADS
BELL 8,542,184 568,673 0.07 0.26 BREATHITT 8,717,164 592,920 0.07 0.25 BUTLER 2,331,575 215,112 0.09 0.15 CLAY 2,686,192 310,141 0.12 0.06 ELLIOTT 1,991,014 216,372 0.20 0.19 FLOYD 9,467,223 738,410 0.08 0.25 HARLAN 18,115,176 852,727 0.05 0.14 HOPKINS 11,404,238 847,256 0.07 0.19 JOHNSON 2,595,373 382,079 0.15 0.08 KNOTT 10,334,625 676,005 0.07 0.32 KNOX 2,049,119 236,940 0.12 0.05 LAUREL 3,024,278 293,794 0.15 LAWRENCE 75,029 380,480 5.07 0.25 LESLIE 8,715,266 748,984 0.09 0.35 LETCHER 9,933,289 787,621 0.08 0.29 McCREARY 1,235,533 163,887 0.13 0.10 MAGOFFIN 4,746,797 432,742 0.09 0.18 MARTIN 22,468,219 1,170,244 0.05 0.40 MORGAN 406,574 108,164 0.27 0.08 MUHLENBERG 11,712,184 991,224 0.08 0.26 OHIO 8,612,375 696,120 0.08 0.29 PIKE 43,476,855 2,641,408 0.06 0.34 UNION 14,053,477 1,098,488 0.08 0.36 WEBSTER 6,257,090 593,650 0.09 0.28 WHITLEY 3,737,121 299,531 0.08 0.11	0.12 0.87 100.00 0.69 0.43 0.74 0.32 0.00 0.98 N/A 0.31 0.53 0.46 0.27 0.65 0.56 0.25 0.59 0.82 100.00 0.81 0.09 0.64 0.52 0.64 0.71

COUNTIES	SCHOOL LOCAL REVENUE ROUNDED TO 000	SCHOOL LOCAL REVENUE % OF I	SCHOOL STATE REVENUE ROUNDED TO OOO	SCHOOL STATE REVENUE Z OF R TOTAL	SCHOOL FEDERAL REVENUE COUNDED TO OCO	SCHOOL FEDERAL REVENUE Z OF TOTAL
BELL BREATHITT BUTLER CLAY ELLIOTT FLOYD HARLAN HOPKINS JOHNSON KNOTT KNOX LAUREL LAWRENCE LEE LESLIE LETCHER McCREARY MAGOFFIN MARTIN MORGAN MUHLENBER OHIO PERRY PIKE UNION WEBSTER WHITLEY	1042 666 349 194 119 687 1283 3130 1032 216 507 911 291 245 255 910 217 127 632 162 982 775 999 3908 1713 837 889	8 10 10 2 5 5 9 20 12 3 5 7 6 9 5 9 3 3 12 4 9 12 8 14 30 17 8	8810 4429 2705 6072 1785 10460 10201 10314 5996 4537 6782 9245 3575 1815 3743 7077 4525 3596 3473 3255 7229 5024 8325 18924 3500 3563 7976	70 65 76 68 71 77 71 68 69 69 73 74 68 73 72 77 68 76 65 77 72 67 62 74	2695 1754 509 2605 594 2376 2925 1766 1660 1846 2561 2528 996 572 1473 1792 1522 933 1026 868 2915 713 2284 5297 435 539 1923	22 26 14 29 24 18 20 12 19 28 26 20 20 22 27 18 24 20 20 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20

DRAFT

COAL PRODUCTION, EMPLOYMENT, & PRODUCTIVITY

Preliminary Figures
(To Be Revised)

' Production and Employment Projections, 1990 - 1995 Kentucky, Eastern and Western Kentucky, United States

PRODUCERS	1990 DOE PROJECTED PRODUCTION	1990 PROJECTED EMPLOYMENT		1995 DOE PROJECTED PRODUCTION	1995 PROJECTED EMPLOYMENT
Kentucky			_	· <u></u>	
Total	175,665,000	37,816		197,860,000	35,220
Deep	112,755,000	27,203		129,830,000	25,638
Strip	62,911,000	10,613		68,031,000	9,583
Eastern Ky.	. ,	,		00,032,000	7,303
Total	125,949,000	28,905		143,161,000	26,932
Deep	79,179,000	20,429		88,855,000	18,843
Strip	46,771,000	8,475		54,306,000	8,088
Western Ky					- 7
Total	49,716,000	8,911		54,699,000	8,288
Deep	33,576,000	6,773		40,975,000	6,794
Strip	16,140,000	2,138		13,725,000	1,494
Totals for U.S.				•	
Total	1,056,767,000	182,728	1	,221,477,000	173,633
Deep	479,753,000	131,288	_	577,216,000	128,601
Strip	573,968,000	51,440		638,950,000	45,032

Kentucky Coal Industry Productivity, 1975 - 84 (Production per Miner per Hour, in Short Tons)

tastern Kentucky			Western Kentucky			Kentucky Total .			
Year	Underground Productivity	Surface Productivity	Total Productivity	Underground Productivity	Surface Productivity	Total Productivity	Underground Productivity	Surface Productivity	Total Productivity
1975 1976 1977	1.40 1.40 1.28	2.39 2.47 2.23	1.80 1.84 1.4	1.81 1.85 1.57	3.09 3.98 3.31	2.58 2.62	1.53	2.63 2.87	2.04 2.05
1978 1979 1980	1.23 1.22 1.39	2.14 2.19 2.18	1,62 1,55 1,68	1.46 1.39 1.49	2.78 2.92 2.76	2.22 1.97 1.94 1.96	1.38 1.29 1.26 1.41	2.51 2.29 2.38 2.33	1.85 1.70 1.64 1.75
1981 1982 1983 1984*	- 1.46 1.48 1.75 1.82	2.26 2.34 2.31	1.76 1.79 1.98	1.52 1.60 2.04	3.10 2.62 2.92	2.12 2.03 2.45	1.47 1.51 1.81	2.45 2.41 2.47	1.84 1.84 2.09
1304"	1.82	2.40	2.06	2,12	3,04	2.60	1.87	2.54	2.14

^{*} MACED Caluclation based upon DOE preliminary Estimates for 1984

Kentucky Coal Prouduction and Employment, 1975-84

Underground

Surface

Year	Production	Average Daily Employment	Production	Average Daily Employment		Production	Average Daily Employment
1975	65,632,000	22,200	77,981,000	13,870		143,613,000	36,070
1976	64,432,000	24,153	79,500,000	15,070		143,932,000	39,223
1977	61,672,000	28.112	84.590.000	17,377	2	146,262,000	45,489
1978	59,485,000	29,951	76,204,000	21,671	7.4	135,689,000	51,622
1979	73,361,915	30,009	73,185,887	17,181		146,547,802	47,190
1980	74,953,726	30,581	71,032,566	15,814		145,986,292	46,395
1981	77,204,030	30,521	77,555,599	17,529		154,759,629	48,050
1982	74,783,880	28,421	73,146,160	16.439		147,930,040	44,860
1983	64,825,916	22,533	63,867,857	13,900		128,693,773	36,433
1984*	83,129,745	25,835	81,483,255	17,274		164,613,000	43,110

^{*} DOE Preliminary Estimates for 1984

Eastern Kentucky Coal Prouduction and Employment, 1975-84

Underground

Surface

Year	Production	Average Daily Employment	Production	Average Daily Employment	Production	Average Daily Employment
1975	40,628,000	15,500	46,628,000	9,950	87,257,000	25,450
1976	40,511,000	17.883	50,587,000	11,598	91,098,000	29,481
1977	38,296,000	19,743	55,661,000	13,048	93,957,000	32,791
1978	41,625,000	22,996	54,608,000	16,706	96,233,000	39,702
1979	54,129,728	23,064	49,949,266	12,838	104,078,994	35,902
1980	55,678,205	22,702	49,884,913	11.819	105,563,118	34,521
1981	59;620,680	24,032	55,792,282	13,473	115,412,962	37,505
1982	57,069,246	22,782	51,960,507	12,319	109,029,753	35,101
1983	49,009,252	17,615	44,190,025	10,485	93,199,277	28,100
1984*	64,817,550	21,161	58,644,450	13,446	123,462,000	34,607

^{*} DOE Preliminary Estimates for 1984

Western Kentucky Coal Prouduction and Employment, 1975-84

Underground

Surface

Yea	r Production	Average Daily Employment	Production	Average Daily Employment	Production	Average Daily Employment
197	5 25,004,000	6,700	31,353,000	3,920	56,357,000	10,620
197		6,270	28,913,000	3,472	52,834,000	10,012
197		8,369	28,929,000	4.329	52,305,000	12,698
197	8 17,860,000	6,955	21,596,000	4,965	39,456,000	11,920
197	9 19,232,187	6,945	23,236,621	4,343	42,468,808	11,288
198	0 19,275,521	7,879	21,147,653	3,995	40,423,174	11,874
198	1 17,583,350	6,489	21,763,317	4,06	39,346,667	10,545
198	2 17,714,634	5,639	21,185,653	4,120	38,900,287	9,759
198	3 15,816,664	4,918	19,677,832	3,415	35,494,496	8,333
198	4* 18,312,195	4,674	22,838,805	3,828	41,151,000	8,502

^{*} DOE Preliminary Estimates for 1984

United States Coal Prouduction and Employment, 1975-84

Underground

Surface

Year	Production	Average Daily Employment	Production	Average Daily Employment	Production	Average Daîly Employment
 1975	292,879,000	134,710	355,172,000	55,130	648,053,000	189,840
1976	294,834,000	139,960	383,619,000	61,655	678,453,000	201,915
1977	265,949,000	151,513	425,731,000	69,822	691,127,000	221,317
1978	242,151,000	159,747	422,837,000	82,490	664,988,000	242,237
1979	316,069,251	151,454	456,568,660	72,824	773,455,911	223.747
1980	329,073,191	150,685	490,642,575	77,884	819,715,766	228,569
1981	311,074,196	151,795	499,245,405	77,507	810,319,601	229,302
1982	336,647,168	141.239	491,663,359	75,878	828,310,527	217,117
1983	298,018,513	111,888	474,682,044	63,721	772,700,557	175,609
1984#	340,059,462	117,612	549,959,538	71,958	890,019,000	189,569

^{*} DOE Preliminary Estimates for 1984

United States Coal Industry Productivity, 1975-84 (Production per Miner per Hour, in Short Tons)

Year	Underground Productivity	Surface Productivity	Total Productivity
1975	1.19	3.20	1.83
1976	1.14	3.26	1.80
1977	1.08	3.17	1.82
1978	1.04	3.04	1.79
1979	1.06	2.76	1.75
1980	1.04	2.93	1.86
1981	1.29	3.50	2.11
1982	1.37	3.49	2.13
1983	1.62	3.88	2.51
1984*	1.71	4.00	2 . 59

^{*} MACED Caluclation based upon DOE preliminary Estimates for 1984

SCENARIO I: DOE PRODUCTION FORECASTS

PRODUCERS	1990 DOE PROJECTED PRODUCTION	1990 PROJECTED EMPLOYMENT	1995 DOE PROJECTED PRODUCTION	1995 PROJECTED EMPLOYMENT
Kentucky Total Deep Strip	175,665,000 112,755,000 62,911,000	37,816 27,203 10,613	197,860,000 129,830,000 68,031,000	35,220 25,638 9,583
Eastern Ky. Total Deep Strip	125,949,000 79,179,000 46,771,000	28,905 20,429 8,475	143,161,000 88,855,000 54,306,000	26,932 18,843 8,088

Occupational Tax

Advantages and Disadvantages of the Occupational Tax as a Revenue Source in Kentucky Coal Counties

Prepared by:

Ramona Combs Research Assistant MACED

Occupational Tax

The occupational tax is a means of collecting revenue from those people who work inside the taxing unit. In Kentucky, the tax may be levied on individuals and on businesses on any one of the following bases:

- (1) flat rate schedule for individual occupations and businesses
- (2) a percentage of wages or earnings of individuals (paid by wage earner)
- (3) a percentage of the net profits of businesses. 1

Presently in Kentucky, 10 counties and 70 municipalities are using the occupational tax. In speaking with representatives of all of the 10 counties and several of the municipalities, I found that all seemed to talk very favorably about the occupational tax. One of the counties in particular (Hancock) said that they were a very poor county until the occupational tax was enacted, but now they are doing very well.

Of course just like everything else, the occupational tax has its cons as well as its pros. Some of them are listed below:

CONS:

- * If a county has a population of over 30,000 then that county would have to have a voter referendum to enact the occupational tax. (Eleven of the 27 coal counties would have to have a voter referendum.)
- * A study by Michael G. Fullington, Assistant Professor at Arkansas State
 University, concludes that the occupational tax could possibly have a
 negative impact on the growth of municipalities (although there is
 disagreement with this argument).

Taken from The Tax Climate in Kentucky, 1974; Kentucky Dept. of Commerce.

- * Just by being a "tax", it could cause opposition and criticism.
- * Average potential cost to employees at a 1% tax rate range from \$119.82 a year in Butler County to \$249.29 a year in Martin County.

 (The particular amount depends on the gross income per taxpayer.) A person making minimum wage would pay approximately \$58.96 a year (at a 1% tax rate) while a coal miner (with an average wage of \$22,310 a year) would pay approximately \$223.10 a year. If a county is comprised of mostly low wage workers, then the tax might be considered unfair.

PROS:

- * It can be a major source of revenue for coal counties, ranging from \$51,740 a year in Elliot County to \$3,971,610 a year in Pike County, based on a 1% tax rate. (This is especially important in Kentucky because of the cap on property taxes and the cut in revenue-sharing.)
- It can be used to pay for specific projects such as: new courthouses, annexes to buildings, administration buildings, etc., then can be taken off when the project is paid for or left on to use for something else. (An example of this is Rowan County, who passed an "occupational and profit" tax in 1981 at 1/4 of 1% to pay for the indebtedness of a new courthouse. They are going to take the tax off when the courthouse is paid for.)

² This figure derived from data in Kentucky Economic Statistics, 1984.

- * It can tax workers living outside the county. (Many of the counties and cities using the occupational tax, tax nonresidents at a lower rate.)
- * It can be used to help ensure county services such as police, fire, and ambulance.
- * If the population of the county is under 30,000, then a voter referendum is not needed in order to enact the occupational tax.
- * The occupational tax is usually easy to administer (providing that the county exempts occupations like domestics, field workers, and other workers who can easily hide their incomes).
- * It responds well to fluctuations in the economy (which can be an asset in periods of high inflation).
- * It is politically easier to enact the occupational tax than it would be to enact another type of tax.³

³ The last three "pros" taken from "Occupational Taxes and the Growth of Municipalities," by Michael G. Fullington, <u>Managing Local Government</u>, March 1984, p.1.

Counties in Kentucky that Use the Occupational Tax

County	Population	<u>Average</u> Gross Income per Taxpayer	Total Covered Wages	Revenue from Occ. Tax	<u>Date</u> <u>Enacted</u>	Purpose
Boone	50,033	\$17,749	\$259,679,000	\$3-4,000,000	1978	More revenue
Boyle	26,120	14,453	136,925,000	450,000	1975	Renovate courthouse
Campbell	82,634	15,625	208,497,000	?	1978	Transit and mental health
Fayette	213,084	17,487	1,575,916,000			Data not available yet
Hancock	7,940	17,431	98,271,000	1,100,000	1973	More revenue
Jefferson	687,886	17,161	4,912,008,000	133,000,000	1962	Operating expenses
Kenton	140,129	16,125	380,425,000	2,200,000	1980	More revenue
Marshall	27,239	14,390	128,184,000	700,000	1981	New roads and road repair
Rowan	19,361	12,925	61,964,000	160,000	1981	New courthouse
Woodford	18,757	16,399	80,866,000	1,000,000 +	1972	New courthouse

COAL COUNTIES

County	Population	Total Covered Wages	Potential Occ. Tax Revenue (1%)	Severence Tax Revenue	Property Tax Revenue
Bell *	35,395	\$144,331,000	\$1,443,310	\$568,673	\$1,729,000
Breathitt	17,832	63,123,000	631,230	592,920	793,000
Butler	11,500	20,095,000	200,950	215,112	562,000
Clay	23,936	82,750,000	827,500	310,141	475,000
Elliot	7,293	5,174,000	51,740	216,372	270,000
Floyd *	52,687	168,366,000	1,683,660	738,410	1,707,000
Harlan *	43,441	181,219,000	1,812,190	852,727	1,940,000
Hopkins *	48,760	257,015,000	2,570,150	847,256	5,235,000
Johnson	26,663	85,915,000	859,150	382,079	1,630,000
Knott	18,977	45,293,000	452,930	676,005	617,000
Knox *	32,173	56,344,000	563,440	236,940	932,000
Laurel *	42,568	154,687,000	1,546,870	293,794	1,467,000
Lawrence	15,222	23,869,000	238,690	335,777	853,000
Lee	8,060	13,128,000	131,280	380,480	650,000
Leslie	15,860	23,139,000	231,390	748,984	503,000
Letcher *	32,965	73,996,000	739,960	787,621	1,437,000
McCreary	16,586	24,449,000	244,490	163,887	546,000
Magoffin	14,372	33,359,000	333,590	432,742	514,000
Martin	15,372	121,088,000	1,210,880	1,170,244	694,000
Morgan	12,730	27,205,000	272,050	108,164	449,000
Muhlenberg '	* 33,599	133,430,000	1,334,300	991,224	2,176,000
Ohio	22,766	79,547,000	795,470	696,120	1,156,000
Perry *	36,052	168,622,000	1,686,220	898,145	1,738,000
Pike * *	87,563	397,161,000	3,971,610	2,641,408	4,157,000
Union	18,284	150,950,000	1,509,500	1,098,488	1,933,000
Webster	15,387	58,560,000	585,600	593,650	1,198,000
Whitley *	36,000	105,402,000	1,054,020	299,531	1,659,000

^{*}Counties that would need voter referendum to enact occupational tax