

ORBES

Volume III-B
Special Study Report

A Benefit-Cost Analysis of Power in the ORBES Region

Richard A. Tybout
The Ohio State University

May 15, 1977

PHASE I

OHIO RIVER BASIN ENERGY STUDY

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1. INTRODUCTION

The ultimate objective of the analysis is to compare estimated future demand for electricity in the Ohio River Basin (ORB) with projected production of the same in years 1985 and 2000. Two future production estimates have been used in the Ohio River Basin Energy Study (ORBES); i.e., Ford Foundation Technical Fix (TF) and Bureau of Mines (BOM) projections, authored by Dupree and Corsentino. The former were derived from an economic model of the economy, including prices as explicit variables, but with a specific policy of growth limitation assumed. The latter were based on in-depth knowledge of past trends in the energy industry, but without explicit consideration of prices or economy-wide growth.

The analysis to follow applies various approaches to the estimation of demand for electricity and gas in the ORB region in 1985 and 2000. The demand projections are based on (1) growth rates from various economy-wide models, corrected to apply to the Bureau of Census regions including ORB; and (2) price projections based on the same economy-wide models, applied to demand elasticities. Demand projections so determined are then compared with the TF and BOM projections. Demand measures benefits at the projected price and quantity levels. The TF and BOM projections give a basis for cost determination. It is not necessary to explicitly find costs, however, since they are implied by prices on which the demand projections are based. Given these conditions, it follows that if demands are greater than (or equal to) the supplies projected by TF or BOM, then the benefits exceed the costs; otherwise, not.

The analysis proceeds in three major steps. First, the data base and historic economy-energy growth trends in the United States are reviewed. Second, specific application of economy-energy growth trends is made to ORB. Third, the results are reviewed and conclusions drawn in the light of various qualifications, including export of energy from ORB and load management utility pricing. Although the major emphasis is on electric power, a certain amount of information is developed with respect to natural gas. The latter is a substitute energy source for electricity and is the subject of demand forecasts designed to take account of the effects of gas prices on electric power consumption.

2. HISTORIC SURVEY

It is convenient to divide the energy economy of the United States into four time periods. The first extends from 1880 to 1920; the second from 1920-47; the third from 1947-73; and the fourth is the remainder of the present century. The present historic survey emphasizes the first three and prepares the way for consideration of the fourth.

2.1 THE FIRST 40 YEARS, 1880-1920

During the first 40 years, the Gross National Product (GNP) increased by a factor of 3.84, but energy input, excluding fuel wood, increased by the greater factor of 9.3 (1, p. 145, 158). The corresponding average annual rates of growth are approximately 3.4 percent for GNP and 5.6 percent for energy consumption. This period was characterized by technological change in which energy was substituted for labor and capital, though at a reduced rate as the year 1920 was approached.

2.2 THE REVERSAL, 1920-1947

In the period from 1920 to 1947, the relative rates of growth were reversed. The GNP grew by a factor of 3.12, which corresponds to an average growth rate of 3.8 percent per year, while energy input grew by a factor of 1.72 or an annual average of 1.8 percent (1, p. 145). Thus the year 1920 marks the point in U.S. economic development when the technology of energy use shifted from increasing to decreasing intensivity per unit of output.

Several phenomena gave rise to this result. In the first place, the composition of GNP changed. Mining and manufacturing accounted for a larger share of GNP in the 1880-1920 period than in the post 1920 period. These are energy-intensive activities. A shift in the composition of output from mining and manufacturing to less energy-intensive outputs, such as services, thus accounted in part for the trend in energy usage. But all services are not sparing of energy. Transportation, in particular, is energy intensive.

A second economy-wide phenomenon is the efficiency with which labor and capital inputs are used. Fabricant reports that total output per unit of labor and capital grew by an annual average rate of 1.3 percent from 1889 to 1919 and by 2.1 percent between 1919 and 1957 (2, p. 11). It seems reasonable to hypothesize that improvements in the technology of the use of energy were a part of the efficiency gains noted by Fabricant. The improvement in the efficiency of labor and capital between Fabricant's two periods corresponds to a comparable improvement in the efficiency of energy use between approximately corresponding periods as reported by Schurr et al., though in the latter case the efficiency shift led to a reversal of GNP output per unit energy input.

Schurr et al. cite two technological changes that undoubtedly played an important part in the process; i.e., the use of electricity and the internal combustion engine. Consider energy in three forms: (1) as electric power, (2) as internal combustion fuels, and (3) all other energy, mainly industrial process and space heat. In 1955, eleven times as many kilowatt hours of electricity were produced as in 1920 and fifteen times as much internal combustion fuel was used; while the third category grew by less than 50 percent (1, p. 176). By 1955, electricity and internal combustion fuels accounted for 20 percent each of input Btu, while the "all other" category accounted for 60 percent (1, p. 175).

Increases in the use of electricity resulted in improvements in direct thermal efficiency as compared with mechanical power from centrally driven prime movers in industrial establishments. Even more important, shop organization and job layout were freed from the spatial constraints of shafts and belt systems. The locational flexibility of electric-power motors led to industrial efficiency attributable to the way energy is used with, of course, corresponding beneficial effects on the GNP-energy ratio. Similar changes occurred with the internal combustion engine. The latter brought greater thermal efficiency to transportation and, in addition, indirectly increased productivity on the farm, reduced costs of inventory management, reduced commuter time, and in other ways improved the flexibility with which power could be used throughout the economic system.

Important as the preceding changes are, the absolute size of the "all other" energy category assured that changes there had an important effect on aggregate statistics. Insofar as process and space heat are concerned --the most important components of this category--a conversion from coal to oil and gas improved overall conversion efficiencies from something in the range of 50 percent to 65 percent or more. The category is too heterogeneous to generalize about other effects, though, of course, the phasing out of the industrial shop prime mover and the steam locomotive led to significant gains in the average thermal efficiency of the "all other" group as a whole.

2.3 THE POST WORLD-WAR II PERIOD, 1947-73

The third phase deals with energy and economic growth since World War II, up to the time of the Arab oil embargo and the increasing focus of public attention on energy policy.

In considering this period, it is desirable to separate three energy streams. First is the energy inputs, as used in previous analysis. Second and third, two streams of outputs will be considered. Energy end products are energy products purchased directly by households, such as gasoline, electricity, or natural gas, plus the same products purchased by commercial establishments. The third stream is energy purchased for industrial processing.

Energy inputs measured in Btu grew at an average of 3.6 percent per annum, as compared with a 3.7 percent average real GNP growth rate (3). Domestic production of energy inputs, however, grew over the 1947-73 period at only 2.8 percent per year (3). The difference was imports. The United States went from a slight export excess in the immediate post-World War II years to significant net imports by 1973.

The growth of energy inputs and GNP at approximately the same rates might seem to imply a departure from the efficiency gains of the 1920-50 period; in point of fact, it does not. If we consider only industrial uses of energy, efficiency gains were quite marked. Industrial output, as measured by the Federal Reserve Board index of industrial production, grew at an annual average rate of 4.5 percent while inputs to industry increased at only 1.5 percent. In calculating energy inputs to industry, that share of electricity consumed by industry plus processed fuels produced by refineries, are reckoned at the levels of energy inputs to the electric power plants and to the refineries. Hence, gains in electric power efficiency and improvements in refinery operation contribute to the rather impressive overall improvement in productivity.

The reason that energy consumption for the economy as a whole showed an energy input growth rate almost equal to that of the real GNP is that consumption of energy end products increased more rapidly than GNP, at an annual rate of 5 to 6 percent in the immediate post-World War II years and 4.5 percent from 1953-1973. By 1967, energy end products accounted for 56.1 percent of the use (measured in Btu) of all energy inputs. The growth in energy end products reflected more household consumption attending a higher standard of living, especially increased private transportation by automobile. Note also that commercial uses of motor vehicles fall in this category, whether such use is by common carrier or private fleet. Prior to World War II, there had, of course, been household and commercial uses of energy. These were not distinguished from other uses and may have exerted a depressing influence on productivity gains, depending on relative productivity in the household and consumption sectors as compared with the industrial sector. But there was no question in the post-World War II period. Productivity gains were clearly smaller and the expansion of consumption for new purposes, regardless of productivity, caused higher growth rates in the household-commercial sector.

2.4 THE FUTURE

The future of energy consumption is bound to differ from its past. For the first time in man's economic history, real costs and real prices (prices corrected for inflation) of certain energy sources are increasing. Industrial trends in the reduced use of energy per unit of output (greater energy efficiency) can be expected to accelerate. Whether there will be a reversal in energy end-use trends is another matter. Increasing real income leads to increasing energy consumption, though at a less than proportional rate, for given energy prices (4, Ch. 5). But, of course, real prices are increasing. The question is whether they are increasing fast enough to bring an absolute reduction in energy end use.

The answer varies by energy source. The "age of fluid fuels," to use Harrison Brown's term, is on the wane. But the age of government price setting is not. If market forces were given full sway, real prices would be higher than at present for both crude oil and natural gas. Usage of these energy sources would be slowed and the likelihood of absolute decrease in consumption greater. Instead, federal policies impair price adjustments and introduce uncertainty into the forecasting process. We shall conclude that natural gas, but not crude oil, consumption will decrease in both the year 1985 and year 2000 projections.

On the other hand, as we shall see, there is every reason to think that real costs and prices of electric power will change very little or even decrease in the decades ahead. The implied result is a comparative shift in consumption from oil and gas to electric power-intensive uses. Exactly where and how this will take place is beyond the scope of the present investigation.

The most reliable sources of projections are those based on economy-wide models, and greatest reliance is placed on the same in the chapters to follow. With past trends for some fuels subject to reversal and real costs increasing, a comprehensive analysis is called for. Fortunately, a comprehensive approach has been taken by a number of analysts. We shall note their results in attempting to evaluate the energy future of the Ohio River Basin.

REFERENCES

1. S. H. Schurr et al., Energy in the American Economy. Baltimore: Johns Hopkins Press, 1960.
2. S. Fabricant. Basic Facts on Productivity Change. Occassional Paper 63: National Bureau of Economic Research. New York, 1959.
3. C. Gehman. "U.S. Energy Supplies and Uses," Federal Reserve Bulletin. Washington, December, 1973.
4. Ford Foundation Energy Policy Project, A Time to Choose. Ballinger Publishing Company, 1974.

3. REGIONAL ECONOMIC GROWTH

3.1 INTRODUCTION

Regional energy growth is, of course, a part of national energy growth. Much of the analysis of regional growth is based on extrapolation from national projections. The Federal Energy Administration (FEA) has made both regional and national projections. The latter, combined with historic regional-national relationships, provide the bases for such extrapolation.

The analysis proceeds in the following three major steps:

1. Data base, Tables III-B-1-5;
2. Price and quantity growth rates, 1975-85 and 1975-2000; Tables III-B-6-10;
3. Regional adaptations of price and quantity growth rates, Tables III-B-11-16.

Data are collected at the county level, though the results are deemed significant only for aggregates of these. Counties within the Ohio River Basin (ORB) are aggregated in the following three groups for each of the four ORBES states: (1) plant counties, those in which plants to be constructed in the Bureau of Mines (BOM) scenario from 1985 to 2000 are located; (2) Standard Metropolitan Statistical Areas (SMSAs) in the ORB region, excluding those already represented among the plant counties; and (3) other ORB counties not included in either of the two preceding groups. A fourth category was included for each state; i.e., all non-ORB counties. This last category was needed to bridge the gap between ORB data and some data that are given only as state totals. Since the entire state of Kentucky is included in the ORB region, there are no counties in this last category in Kentucky.

3.2 DATA BASE

The data are given in Tables III-B-1-5. Except for Table III-B-2, these are too voluminous to include in the text. Tables III-B-1, III-B-3, III-B-4, and III-B-5 appear in Appendices B, C, D, and E, where they are listed by states. Exact documentary sources are given with the tables. Energy data (Tables III-B-1-4) are for 1974; economic data (Table III-B-5) are for 1972.

Electricity prices by state, county, and customer class are given in Table III-B-1. These were obtained from U.S. Federal Power Commission records of typical electric bills. They are prices in existence on January 1, 1974, for specific levels of consumption as shown in the table. Since electric power prices are based on declining block rates, it is necessary to select particular levels of consumption for each customer class. The levels chosen were near the average consumption in each case.

It is possible that a small error might be introduced in any projections by an increase in the average consumption in each customer class, on the assumption that declining block structures continue into the future. There is ample reason to think, however, on the basis of information given in Section 3.3, below, that block rates will be subject to diminished differentials in the future, or will be phased out in favor of rates that do not vary with the volume of consumption.

Electricity prices in Table III-B-1 were associated with counties by identifying particular towns to which the prices apply. That is to say, the Federal Power Commission's survey of typical bills gives results by towns, not by counties. The former were translated to counties by identifying towns within counties. In counties with no towns large enough to be listed, state average prices were used. Or, in towns where commercial or industrial service was not great enough to contain any instances of bills at the selected commercial and industrial levels, state average commercial or industrial rates were used at these levels.

Gas prices for the fourth quarter 1974 are given in Table III-B-2. These are for key metropolitan areas, selected so as to represent the ORB region within each state. Gas prices were not available at more detailed levels.

Table III-B-2

NATURAL GAS PRICES BY KEY METROPOLITAN AREA OF ORB STATES
FOURTH QUARTER, 1974
DOLLARS PER MILLION Btu

	<u>Residential</u>	<u>Customer Class</u> <u>Commercial^a</u>	<u>Industrial^b</u>
Illinois (Peoria)	1.26	1.21	1.02
Indiana (Indianapolis)	1.02	1.07	0.81
Kentucky (Ashland)	1.22	1.19	1.02
Ohio (Columbus)	1.21	1.22	1.04

- (a) Prices listed represent midpoints for ranges of prices given in the Source.
- (b) Prices listed are midpoints for ranges of prices for firm (not interruptible) industrial supply.

SOURCE: Foster Associates, personal communication.

Quantities of electricity consumed, to the nearest 1,000 megawatt hours, in 1974, are shown in Table III-B-3 by state, county and customer class. Also shown are quantities generated. It is interesting to compare the quantities generated with the quantities consumed in plant counties. See Table III-B-3A for each state. There is already more generated than consumed in these counties in Illinois, Indiana, and Kentucky.

The source for Table III-B-3, Energetics (1), gives only the totals for consumption and generation. Consumption by customer classes was inferred from use factors defined as follows for each of the customer classes:

$$\text{Residential use factor, } R = \frac{\text{Residential Consumption}}{\text{Personal Income}} \quad (1)$$

$$\text{Commercial use factor, } C = \frac{\text{Commercial Consumption}}{\text{Retail Sales} + \text{Farm Product Sales}} \quad (2)$$

$$\text{Industrial use factor, } I = \frac{\text{Industrial Consumption}}{\text{Value Added}} \quad (3)$$

Numerical values were obtained for each of the above use factors for each of the four states. These factors were then used with the values in the denominator for each county to get estimates of residential, commercial, and industrial consumption (in megawatt hours) in that county. These estimates were totaled by county and the totals compared with the totals shown in Energetics for each of the same counties. Where any differences were found, the customer classes were adjusted upward or downward by the same fraction in each county so as to make the totals for the customer classes equal to that in Energetics. In fact, there should have been no differences, because Energetics reports that the county totals given therein were calculated in the first place by the same procedure in reverse, beginning with state totals by customer classes (1, p. 24-25).

Table III-B-4 gives gas consumption by state, county, and customer class in billions of Btu in 1974. Exactly the same method of calculation was used here as in Table III-B-3. Energetics gives county totals. These were divided into residential, commercial, and industrial consumption with the help of use factors as defined in Eqs. (1), (2), and (3), followed by the same method of reconciliation, except that in the case of natural gas, the amount used in electric power generation stations of capacity greater than 25 MW was known and was allocated by the county independently of the amounts assigned to the three customer classes. Also, as in the case of electricity, the method was identical with that used by Energetics in getting county totals in the first place (1, p. 22).

Table III-B-5 shows state and county values for the economic variables used in the denominators of Eqs. (1), (2), and (3). Personal income is obtained by multiplying the per capita income from column (1) by the population in column (2).

3.3 NATIONAL GROWTH RATES

Projected price growth rates in constant dollars, or real prices, are shown in Table III-B-6 for the period 1975-85 and in Table III-B-7 for the period 1975-2000. Both tables report the results of different studies in which models of the U.S. economy were used. Thus, projected price growth rates of energy products take account not only of expected conditions in energy markets, but also of expected conditions in all other markets.

Growth rates in both Tables III-B-6 and Table III-B-7 are expressed as annual average rates and must be compounded in going from the initial to the terminal year. They do not necessarily give correct estimates for intervening years. Thus, comparison of rates in Table III-B-6 with those in Table III-B-7 shows differences for the same energy source and study.

Consider Table III-B-6. Three studies are shown, in Parts A, B, and C, respectively. These are given in the sequence in which the studies were published. Part A is the Ford Foundation study, from which two sets of real price projections are reported. The first is based on historic demand and supply relationships, not historic growth rates. Natural gas, for example, is projected to have a very considerable real price increase, though it has not had such price increases in the decades prior to the forecast. The technical fix projection (TF) is the same one as used in ORBES for projecting one of the alternative quantity growth rates. The technical fix growth path is one generated by public policies that assure that energy conservation practices and known energy-saving technologies are incorporated into consumption and production patterns while not changing existing life styles (2, Ch. 3). More rapid rates of growth of price are intentionally used as policy measures to help produce the energy-saving results.

Part B gives the Hudson-Jorgenson (HJ) estimates. The same two authors played a leading part in making the Ford Foundation estimates. Hudson-Jorgenson's base case assumes that traditional supply and demand relationships prevail into the future. Their "Independence Tax" case assumes that a Btu tax is imposed sufficient to achieve energy independence by 1985. As a result of the tax, real prices (including the tax) increase at more rapid rates.

The third set of projections, in Part C, was made by the U.S. Federal Energy Administration (FEA) in its National Energy Outlook. Four FEA projections are shown. These are the four combinations of Business-As-Usual (BAU) and Conservation with two sets of crude oil prices, \$13/bbl and \$16/bbl. The prices are hypothesized for imported crude oil in 1985, in 1975 dollars. Imported oil is currently selling at a price near the low end of the \$13 to \$16 range per barrel. The FEA scenarios are defined as follows (3, Appendix E):

BAU Demand--conventional demand analysis uninfluenced by mandatory conservation actions of government, but does include the price effect of higher energy prices.

Table III-B-6

U.S. ANNUAL AVERAGE
RATES OF GROWTH OF REAL PRICES,
PERCENT PER ANNUM 1975-85

	Coal	Petroleum Products	Natural Gas	Electricity
PART A. FORD FOUNDATION ESTIMATES				
Historic Growth	1.78	5.74	5.96	-0.90
Technical Fix	2.63	8.38	6.12	4.33
PART B. HUDSON-JORGENSON ESTIMATES				
Base Case	3.08	0.497 ^a	2.45	-0.211
Independence Tax	6.36	3.44 ^a	6.10	0.955
PART C. U.S. FEDERAL ENERGY ADMINISTRATION				
Business-As-Usual (\$13/bbl oil)	2.2	0.70	6.2	2.1
Business-As-Usual (\$16/bbl oil)	2.3	2.4	6.2	2.2
Conservation (\$13/bbl oil)	2.1	0.62	5.3	1.3
Conservation (\$16/bbl oil)	2.3	2.0	5.3	1.3
PART D. REPRESENTATIVE RATES				
	2-4	2-4	5-6	1-2

(a) Crude petroleum

SOURCE: Part A: Ford Foundation Energy Policy Project, A Time to Choose (Ballinger, 1974), Appendix F, pp. 498 and 502-3.
Growth rates have been corrected for changes in the value of the dollar, as given in the same source.

Table III-B-6 (Continued)

- Part B:** E. A. Hudson and D. W. Jorgenson, "U.S. Energy Policy and Economic Growth, 1975-2000," Bell Journal of Economics and Management Science, Vol. 5 (Autumn, 1974), p. 493 for base case, Tables 1, 9, 20, and 21 combined to deduce effects of independence tax. Undeflated rates are corrected for changes in the value of the dollar.
- Part C:** U.S. Federal Energy Administration, National Energy Outlook (1976). Business-As-Usual (\$13/bbl oil) case, Appendix C, p. 25. The other three cases were calculated by working back from 1985 prices (in 1975 dollars) for the Business-As-Usual (\$13/bbl oil) case with growth rates for that case to get 1974 prices. These were compared with 1985 prices in the other three cases, as given in Appendix G. Prices per barrel of oil refer to import prices assumed to hold (in 1975 dollars) in 1985.
- Part D:** Inferences based on judgment from rates shown in Parts A, B, and C.

BAU Supply--assumes decontrol of old oil and deregulation plus a series of moderate conventions with respect to oil, gas, coal, and nuclear power. Electricity peak demand grows one half a percent faster than average demand and a small synthetic fuels effort is mounted before 1985.

Conservation Demand--in the field of transportation, a specific schedule for improvements of automobile efficiency, incentives for a national van pool program, and a change in Civil Aeronautics Board regulations to increase airline load factors from 55 to 65 percent are all assumed. Various thermal efficiency standards and tax benefits for buildings are adopted, together with appliance efficiency improvements and mandatory labelling, elimination of gas pilot lights on new appliances, and mandatory retrofit of certain residential heating systems. In the industrial sector there is an expanded energy accounting and reporting system, with technical assistance programs and efficiency guidelines for selected industrial equipment. Electric utilities are given incentives to stimulate load management actions designed to keep peak load growth one percent below total load growth.

Conservation Supply-- same as BAU supply

A considerable range of growth rates is observable for the same fuels in Table III-B-6. Consider first the Historic Growth, Base, and Business-As-Usual cases. These are all intended to reflect the assumption of no changes in energy policies from those existing in mid 1975, either by U.S. or foreign governments, over the forecast period. There are both agreements and disagreements. Electricity prices are expected to grow the least and natural gas prices the most, except in the Hudson-Jorgenson Base Case, where coal price growth exceeds natural gas price growth. Petroleum products grow by relatively small rates in the two more recent studies (Parts B and C) but at a rapid rate in Part A, doubtless because the analysis was conducted prior to the radical price increases in crude oil in late 1973-early 1974 period.

Note the difference in the relative price growth rates of the BAU and conservation scenarios in the Ford and HJ forecasts, on the one hand, and the FEA forecasts, on the other. In the HJ forecast, the Btu tax helps drive up the energy prices. In the Ford forecast, petroleum products are driven up in price by unfavorable domestic supply conditions combined with restrictions on imports, while recent reductions in electric power productivity are assumed to continue and to drive up electric power prices. Increased prices of these energy sources work their way through the economy. The result is to produce an overall energy input rate of 1.6 percent per year as compared with 3.5 percent in the BAU case. (These last figures are not shown in Table III-B-6.) In contrast, the causation runs the other way, from conservation demand, in the case of the FEA forecasts. (See the previous definitions of FEA conservation demand and supply.) Hence, price growth rates are lower for the FEA conservation cases than

for the corresponding BAU cases. Needless to say, economy-wide inflationary effects (not shown) are also lower in the FEA scenarios.

Which cause and effect is likely to dominate is not only a matter of public policy, but also of the real scarcity situation. The writer holds that the Ford-HJ cause and effect is the more likely to dominate, even though some lowering of demand by voluntary and mandatory conservation efforts will probably also take place.

The last line of Table III-B-6 shows representative rates that will be used at a later point for calculating plausible figures for real price growth. These rates were chosen by a subjective selection from among the rates shown, with special emphasis on the H-J and FEA forecasts, which are clearly based on post-embargo conditions, and with consideration for the probable greater importance of supply constriction than autonomous demand decline in producing conservation.

Table III-B-7 follows the same pattern as Table III-B-6 but applies to the time period 1975-2000. As with Table III-B-6, the growth rates are intended to characterize the relationship between the initial and terminal years only. No FEA forecasts were available for the year 2000, for which the Hudson-Jorgenson estimates include only the base case. A new study, by Nordhaus, is added.

Nordhaus' growth rates were given for the time span 1970 to 2010. They are here interpreted to apply to the period 1975-2000. Nordhaus' model is not of the entire economy, but only energy demand and supply, subdivided by energy sectors. The rest of the economy is treated in such a way as to make this possible. Productivity trends are included in the analysis and environmental protection is explicitly recognized as a consumer of resources, at the levels of environmental protection envisaged in 1973. Only Nordhaus' base case is reported. He also investigates the cost of energy independence, but does not give price growth rates or enough information to infer growth rates.

Comparing the representative rates in Tables III-B-6 and III-B-7, it will be seen that coal and electricity real prices are expected to grow at the same rates in both 1975-85 and 1975-2000. However, petroleum product prices are expected to grow relatively more rapidly toward the end of the time period to the year 2000 and natural gas prices to grow relatively more rapidly in the more immediate time horizon of the decade 1975-85.

Tables III-B-8 and III-B-9 give quantity growth rates, again as annual averages. Parts A, B, and C of Table III-B-8 give quantity growth rates drawn from the same models as the real price growth rates in the same parts of Table III-B-6. Part D gives the Bureau of Mines (BOM) projections, which, as previously noted, are used to get a second reference point (along with the TF projections) for ORBES. The BOM projections are of approximately the same vintage as the FEA forecasts but differ in that they are not based on economic analysis. In contrast to the other three, the Bureau of Mines forecasts are simply physical projections based on past and

Table III-B-7

U.S. ANNUAL AVERAGE
RATES OF GROWTH OF REAL PRICES,
PERCENT PER ANNUM 1975-2000

	Coal	Petroleum Products	Natural Gas	Electricity
PART A. NORDHAUS ESTIMATES				
Base Case	0.7	4.6 ^a	3.9	1.1
PART B. FORD FOUNDATION ESTIMATES				
Historic Growth	5.72	4.54	4.94	2.53
Technical Fix	7.52	6.11	6.41	5.66
PART C. HUDSON-JORGENSEN ESTIMATES				
Base Case	2.69	0.70 ^a	2.82	-0.22
PART D. REPRESENTATIVE RATES				
	2-4	3-5	3-5	1-2

(a) Crude petroleum

SOURCE: Part A: W. D. Nordhaus, "The Allocation of Energy Resources," Brookings Papers on Economic Activity, Vol. 3 (1973), pp. 555-6.

Part B: Ford Foundation Energy Policy Project, A Time to Choose (Ballinger, 1974), Appendix F, pp. 498 and 502-3. Growth rates have been corrected for changes in the value of the dollar, as given in the same source.

Part C: E. A. Hudson and D. W. Jorgenson, "U.S. Energy Policy and Economic Growth, 1975-2000," Bell Journal of Economics and Management Science, Vol. 5 (Autumn, 1974), p. 490. Undeflated rates are corrected for changes in the value of the dollar.

Part D: Inferences based on judgment from rates shown in Parts A, B, and C.

Table III-B-8
 U.S. ANNUAL AVERAGE
 RATES OF GROWTH OF QUANTITIES OF Btus CONSUMED
 PERCENT PER ANNUM 1975-1985

	<u>Coal</u>	<u>Petroleum Products</u>	<u>Natural Gas</u>	<u>Electricity</u>
PART A. FORD FOUNDATION ESTIMATES				
Historic Growth	3.4	1.2	3.4	6.6
Technical Fix	2.8	-1.0	2.8	3.3
PART B. HUDSON-JORGENSEN ESTIMATES				
Base Case	2.2	2.8 ^a	1.6	5.5
Independence Tax	1.7	0.75 ^a	-1.2	4.9
PART C. U.S. FEDERAL ENERGY ADMINISTRATION				
Business-As-Usual (\$13/bbl oil)	5.4	2.2	1.0	5.7
Business-As-Usual (\$16/bbl oil)	5.9	1.5	1.0	5.9
Conservation (\$13/bbl oil)	5.1	0.4	0.6	5.6
Conservation (\$16/bbl oil)	4.4	2.8	-1.0	2.2
PART D. BUREAU OF MINES (DUPREE-CORSENTINO) ESTIMATES				
	4.4	2.8	-1.0	2.2
PART E. REPRESENTATIVE RATES				
	3-5	1-2	1-2	4-6

(a) Crude petroleum

Table III-B-8 (Continued)

- SOURCE: Part A: Ford Foundation Energy Policy Project, A Time to Choose (Ballinger, 1974), Appendix F, pp. 498 and 502-3.
- Part B: E. A. Hudson and D. W. Jorgenson, "U.S. Energy Policy and Economic Growth, 1975-2000," Bell Journal of Economics and Management Science, Vol. 5 (Autumn, 1974), pp. 492, 509.
- Part C: U.S. Federal Energy Administration, National Energy Outlook (1976). Growth rates for all four cases are found by comparing 1974 and 1985 quantities in Appendix G.
- Part D: W. G. Dupree, Jr. and J. S. Corsentino, United States Energy Through the Year 2000 (Revised), U.S. Department of the Interior, Bureau of Mines (December, 1975), p. 28.
- Part E: Inferences based on judgment from rates shown in Parts A, B, C, and D.

Table III-B-9
 U.S. ANNUAL AVERAGE
 RATES OF GROWTH OF QUANTITIES OF Btus CONSUMED
 PERCENT PER ANNUM 1975-2000

	Coal	Petroleum Products	Natural Gas	Electricity
PART A. FORD FOUNDATION ESTIMATES				
Historic Growth	3.8	2.1	2.2	5.6
Technical Fix	2.6	0.27	1.3	2.7
PART B. HUDSON-JORGENSEN ESTIMATES				
Base Case	2.7	2.2 ^a	1.1	5.1
PART C. BUREAU OF MINES (DUPREE-CORSENTINO) ESTIMATES				
	3.7	1.5	-0.49	5.9
PART D. REPRESENTATIVE RATES				
	2-4	1-2	1-2	3-6

(a) Crude petroleum

SOURCE: Part A: Ford Foundation Energy Policy Project, A Time to Choose (Ballinger, 1974), Appendix F, pp. 498 and 502-3.

Part B: E. A. Hudson and D. W. Jorgenson, "U.S. Energy Policy and Economic Growth, 1975-2000," Bell Journal of Economics and Management Science, Vol. 5 (Autumn, 1974), p. 492.

Part C: W. G. Dupree, Jr. and J. S. Corsentino, United States Energy Through the Year 2000 (Revised), U.S. Department of the Interior, Bureau of Mines (December, 1975), p. 29.

Part D: Inferences based on judgment from rates shown in Parts A, B, C, and D.

expected future trends in the energy industries. The authors, Dupree and Corsentino, give no alternatives for the BOM forecasts. They are here interpreted as expected results of policies in existence in 1975, when they were developed. No distinction is made in either Tables III-B-8 or III-B-9 between crude and refined petroleum. Both grow at substantially the same rates in any one analysis.

Table III-B-9 is related to III-B-8 as Table III-B-7 was related to III-B-6. FEA estimates were not made for the period 1975-2000 and hence do not appear in Table III-B-9. The quantity growth rates in Parts A and B of Table III-B-9 are drawn from the same models as the real price growth rates in Parts B and C of Table III-B-7. A comparison of the representative rates shown in Tables III-B-8 and III-B-9 shows continuous slow growth expected in consumption of petroleum products and natural gas in both the 1975-85 and 1975-2000 time spans. Electricity and coal are expected to have more rapid growth over the entire period to the year 2000, but especially in the decade ending in 1985.

Table III-B-10 gives the author's best judgment of annual rates of growth of real prices and quantities for selected years and energy sources, as drawn from previous analysis of Tables III-B-6-9. Single figures, rather than ranges of figures, appear in each cell, but no more precision is to be implied than suggested by the previous ranges of "representative rates." Table III-B-10 serves to summarize the projections for future reference.

Table III-B-10
BEST JUDGMENT
U.S. ANNUAL AVERAGE RATES OF GROWTH
PERCENT PER ANNUM

	Coal	Petroleum Products	Natural Gas	Electricity
PART A. 1975-1985				
Real Prices	2.2	2.0	5.5	1.5
Quantities	5.7	1.0	0.8	5.7
PART B. 1975-2000				
Real Prices	3.0	1.0	3.0	0.5
Quantities	2.7	2.2	1.1	5.1

3.4 REGIONAL GROWTH RATES

Regional projections are not available for the boundaries of the Ohio River Basin as defined in the present study. They are available, however, for two Census Divisions, East North Central and East South Central, which, between them, include ORB. These two Census Divisions are defined as the following states:

<u>East North Central (ENC)</u>	<u>East South Central (ESC)</u>
Ohio	Kentucky
Indiana	Tennessee
Illinois	Alabama
Michigan	Mississippi
Wisconsin	

FEA projections to 1985 for these two Census Divisions will be used as a basis for estimating growth in price and demand for ORB. The estimates will be made in two steps. Tables III-B-11 and III-B-12 give the historic (1960-72) price and quantity growth rates for East North Central and East South Central compared with the United States as a whole. Tables III-B-13 and III-B-14 give the same as projected by FEA to 1985.

Consider Tables III-B-11 and III-B-12. As shown in Table III-B-11, for most energy sources and in all three customer classes, historic real price trends have been downward. In the residential sector, ENC plus ESC (ORB) has been roughly at the national rate for natural gas, but has not experienced quite the national decline in petroleum products and electricity prices. Despite these facts, residential consumption of all three energy sources has increased at rates comparable to the national average, treating ENC and ESC together (see Table III-B-12).

In the ENC and ESC commercial sectors, prices have gone down only for gas and electricity. But rates of growth in consumption have increased markedly for all three energy sources, in the U.S. and in ENC-ESC. Similar observations apply in the industrial sector, although here it appears that a significantly greater than U.S. average increase took place in natural gas consumption in ENC-ESC in 1960-72, (see Tables III-B-11 and III-B-12).

Now, consider projections to 1985, as shown in Tables III-B-13 and III-B-14. No decreases in real prices are expected, except, interestingly enough, in ENC, where a very slight downward movement of electricity real price is projected in the residential and commercial customer sectors. Real prices of natural gas are expected to rise in ENC-ESC for residential and industrial consumption, but not as much as in the nation. The same is probably true in the industrial sector, although a precise statement cannot be made without quantitatively weighing the separate ENC and ESC Divisions. Growth rates for natural gas decline less in the residential sector and increase more in the commercial and industrial sectors of ENC-ESC than for the nation. In the case of electricity, the situation is mixed, between ENC and ESC, on the one hand, and among consumer sectors on the

Table III-B-11
 REGIONAL VS. U.S. ANNUAL AVERAGE
 RATES OF GROWTH OF REAL PRICES, 1960-72
 PERCENT PER ANNUM

	<u>Coal</u>	<u>Petroleum Products^a</u>	<u>Natural Gas</u>	<u>Electricity</u>
PART A. RESIDENTIAL SECTOR				
East North Central		1.1	-1.5	-3.4
East South Central		-0.7	-1.7	-3.3
U.S.		-2.4	-1.6	-4.1
PART B. COMMERCIAL SECTOR				
East North Central		0.7	-2.1	-3.7
East South Central		5.6	-1.3	-3.6
U.S.		-0.5	-1.4	-4.5
PART C. INDUSTRIAL SECTOR				
East North Central	1.0	0.0	-2.5	-1.0
East South Central	4.4	-0.4	-0.9	1.6
U.S.	3.2	1.0	-0.5	-1.3

(a) Petroleum products include distillate, residual oil, kerosene, and liquified gases only.

SOURCE: U.S. Federal Energy Administration, National Energy Outlook (1976), Appendix C, Table 12b.

Table III-B-12

REGIONAL VS. U.S. ANNUAL AVERAGE
RATES OF GROWTH OF QUANTITIES CONSUMED, 1960-72
PERCENT PER ANNUM

	Coal	Petroleum Products ^a	Natural Gas	Electricity
PART A. RESIDENTIAL SECTOR				
East North Central		-1.5	4.6	7.3
East South Central		4.8	3.0	8.3
U.S.		0.4	4.2	7.7
PART B. COMMERCIAL SECTOR				
East North Central		5.4	9.1	8.5
East South Central		25.3	4.8	8.3
U.S.		5.1	6.7	9.7
PART C. INDUSTRIAL SECTOR				
East North Central	-1.7	-1.2	7.4	4.8
East South Central	2.6	4.0	5.0	2.7
U.S.	-0.8	2.6	4.4	5.5

(a) Petroleum products include distillate, residual oil, kerosene, and liquified gases only.

SOURCE: U.S. Federal Energy Administration, National Energy Outlook (1976), Appendix C, Table 12a.

Table III-B-13

**REGIONAL VS. U.S. ANNUAL AVERAGE
RATES OF GROWTH OF REAL PRICES, 1974-85
PERCENT PER ANNUM**

	<u>Coal</u>	<u>Petroleum Products^a</u>	<u>Natural Gas</u>	<u>Electricity</u>
PART A. RESIDENTIAL SECTOR				
East North Central	1.0	4.5	-0.5	
East South Central	1.0	4.6	1.5	
U.S.	1.5	5.7	1.3	
PART B. COMMERCIAL SECTOR				
East North Central	1.0	5.4	-0.8	
East South Central	1.1	5.8	1.8	
U.S.	1.4	6.8	0.5	
PART C. INDUSTRIAL SECTOR				
East North Central	3.3	0.0	4.5	1.7
East South Central	-1.9	2.2	7.2	4.6
U.S.	2.2	0.8	7.0	3.4

(a) Distillate price used for regional calculation in residential and commercial sector; residual price used for calculation in industrial sectors.

SOURCE: U.S. Federal Energy Administration, National Energy Outlook (1976), Appendix C, Table 13b.

Table III-B-14
 REGIONAL VS. U.S. ANNUAL AVERAGE
 RATES OF GROWTH OF QUANTITIES CONSUMED, 1974-85
 PERCENT PER ANNUM

	Coal	Petroleum Products	Natural Gas	Electricity
PART A. RESIDENTIAL SECTOR				
East North Central		2.43	-0.77	8.15
East South Central		2.72	-1.59	6.18
U.S.		3.00	-1.80	7.50
PART B. COMMERCIAL SECTOR				
East North Central		1.80	1.11	3.90
East South Central		2.32	3.10	4.71
U.S.		2.00	0.80	3.90
PART C. INDUSTRIAL SECTOR				
East North Central	1.09	2.70	2.43	2.65
East South Central	6.41	5.11	2.10	4.84
U.S.	1.50	2.90	2.1	4.40

SOURCE: U.S. Federal Energy Administration, National Energy Outlook
 (1976), Appendix C, Table 13a.

other. No clear statement can be made as to whether ENC-ESC as a whole is different from the nation in a given sector. Insofar as any conclusion is possible, it appears that we would not be far wrong to use national price and growth rates for electricity in ORB.

The case of coal takes on special interest because of the possible use of this energy source for the production of synthetic fuels, especially high and low Btu gas, in ORB. As shown in Table III-B-13, the real price of coal is expected to decline in ESC, although it is expected to rise in ENC. The expected rate of growth of coal consumption in ESC is shown (see Table III-B-14) to be much above the national average for the period 1975-85. Prices projected by Foster Associates (4) place both high and low Btu synthetic gas from Eastern Bituminous coal in the same range as natural gas in the period 1985 to 2000. Low Btu gas is expected to be produced by 1985, but high Btu gas is scheduled to come in later.

A comparison is made in Table III-B-15 between the rates of growth of natural gas prices projected by FEA and those by Foster Associates in the above-cited study. FEA rates of growth are shown in Column (1). Foster Associates' rates of growth are shown in Columns (2) and (3). Foster considers two cases, regulation and free market; whereas FEA considers only the continuance of existing public policies; that is to say, regulation. Table III-B-15 shows that in all three customer classes, the Foster rates of growth of real prices are higher for both the regulation and free market cases. Rates of growth of real prices are also shown to the year 2000 in the Foster projections, but not in the FEA projections.

Table III-B-16 gives "best judgment" rates of growth for both real prices and quantities in the ORB region. The projections to 1985 are based on FEA prices and quantities for the average of ENC and ESC. As shown in Table III-B-15, the FEA projections might be based on relatively low real price growth in the case of natural gas. (The Foster Associates report does not include price projections for electricity.) However, the FEA projections are used because they were obtained from a model that includes both price and quantity for all energy sources, including electricity.

Parts C and D of Table III-B-16 give growth rates to the year 2000. We have no sure way of distinguishing regional from national growth in this period. Hence these projections were made by taking the ratio of national growth rates 1975-2000 over 1975-85 from Table III-B-10 and applying this ratio, for the appropriate fuel, to the corresponding rates for 1975-85, as given in Parts A and B of Table III-B-16. This approach assumes that ORB retains the same relation to national growth patterns in 1985-2000 as it had in 1975-85.

Table III-B-15

NATURAL GAS AVERAGE ANNUAL
 RATES OF GROWTH OF REAL PRICES,
 PERCENT PER ANNUM 1975-85 AND 1975-2000

Federal Energy Administration Average of ENC and ESC ^a	Foster Associates, Average for Columbus, Ohio, and St. Louis, Missouri Regulation	Free Market
(1)	(2)	(3)
PART A. RESIDENTIAL		
1975-85	4.6	6.5
1975-2000		4.4
		4.3
PART B. COMMERCIAL		
1975-85	5.6	6.4
1975-2000		4.3
		5.2
PART C. INDUSTRIAL		
1975-85	5.4	8.1
1975-2000		5.3
		6.1

(a) ENC: East North Central
 ESC: East South Central

SOURCE: Column (1): Table III-B-13
 Columns (2) and (3): Growth rates calculated from prices given
 in Foster Associates, Inc., "Fuel and Energy Price Forecasts,"
 Electric Power Research Institute EA-411, Project 759-2 (1977),
 Vol. II, p. 99.

Table III-B-16
BEST JUDGMENT
ORB ANNUAL AVERAGE RATES OF GROWTH
PERCENT PER ANNUM

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>
PART A. 1975-85 REAL PRICES			
Electricity	0.5	0.5	3.2
Natural Gas	4.6	5.6	5.9
PART B. 1975-85 QUANTITIES			
Electricity	7.2	4.3	3.8
Natural Gas	-1.2	2.1	2.3
PART C. 1975-2000 REAL PRICES			
Electricity	-0.5	-0.5	2.2
Natural Gas	2.1	3.1	3.4
PART D. 1975-2000 QUANTITIES			
Electricity	6.6	3.7	3.2
Natural Gas	-0.9	2.4	2.6

SOURCES: Parts A and B: Average rates for East North Central and East South Central regions from Tables III-B-13 and III-B-14.

Parts C and D: Rates in Parts A and B multiplied by the corresponding ratios of national growth rates in 1975-2000 over 1975-85, from Table III-B-10.

REFERENCES

1. Frank R. Drysdale and Charles E. Calef. The Energetics of the United States of America: An Atlas. Brookhaven National Laboratory, 1976.
2. Ford Foundation Energy Policy Project, A Time to Choose. Battlinger Publishing Company, 1974.
3. U.S. Federal Energy Administration, National Energy Outlook. Washington, 1976.
4. Foster Associates, Inc., Fuel and Energy Price Forecasts. Electric Power Research Institute, 1977.

4. PROJECTIONS

4.1 PRICE-BASED PROJECTIONS

Real price growth rates from Table III-B-16 are used to calculate projected prices in 1985 and 2000 for electricity and natural gas, respectively. The electricity projections are shown in Tables III-B-17 and III-B-18 (Appendices B through E) by county for the same four groups of counties in each state as in Table III-B-1. The gas projections are shown in Tables III-B-19 and III-B-20. These are by state, following Table III-B-2.

Price projections are used to get price-based quantity projections, with which supply will be compared. There are two possible ways of relating prices to quantities, i.e., by (1) single-equation models and (2) multiple economy-wide equation models. The price growth rates and the quantity growth rates reported in Table III-B-16 were chosen in the first place from economy-wide multiple equation models. Hence, the advantages of the second approach have already been included in the analysis. Now, the single-equation approach will be used, in addition, as another way of translating the price growth rates into quantity growth rates.

A compressive single-equation analysis suitable for our purposes has been published by Mount, Chapman, and Tyrrell (MCT) (1). In contrast to most other studies of electric power demand, the MCT analysis gives consistent formulations for the three customer classes, residential, commercial, and industrial. It also reports results by census regions and, within these, by states, for the three most important independent variables, population, income, and price of electricity. Other variables are for the nation as a whole within customer classes, except for the intercept, which is given by census region.

Mount, Chapman, and Tyrrell have a constant elasticity model, a variable elasticity model, and a variable elasticity model with shift parameters for such regional variables as climate and degree of urbanization. The constant elasticity model will be used here. The reason is that the MCT variable elasticity model introduces the levels of the causal factors in a way that we shall find mathematically inconvenient for the present formulation. More specifically, as will be shown below, the causal factors in the present application are assumed to change in accordance with growth rates. This necessitates a reformation that is minor with the constant elasticity model but would not be excessively complex with the MCT variable elasticity model. Insofar as the shift parameters are concerned, we take these to be adequately represented by the intercepts which, as noted above, shift with each Census Division.

Table III-B-19

NATURAL GAS PRICES IN ORB COUNTIES BY STATE, 1985
DOLLARS PER MILLION Btu (1974 DOLLARS)

	Residential	Commercial	Industrial
Illinois	2.09	2.24	1.96
Indiana	1.69	1.98	1.55
Kentucky	2.02	2.20	1.96
Ohio	2.01	2.26	1.99

SOURCE: Growth rates from Table III-B-16 applied to prices from Table III-B-2.

Table III-B-20

NATURAL GAS PRICES IN ORB COUNTIES BY STATE, 2000
DOLLARS PER MILLION Btu (1974 DOLLARS)

	Residential	Commercial	Industrial
Illinois	2.18	2.71	2.47
Indiana	1.76	2.40	1.96
Kentucky	2.11	2.66	2.47
Ohio	2.09	2.73	2.52

SOURCE: Growth rates from Table III-B-16 applied to prices from Table III-B-2.

The MCT constant elasticity regression is

$$Q_t = A Q_{t-1}^{\lambda} V_{1t}^{\beta_1} \cdots V_{5t}^{\beta_5}, \quad (4)$$

where

t is the t^{th} year,

Q is the quantity of electricity demanded,

V_n is the level of the n^{th} (of five) causal factor, and

$A, \lambda, \beta_1 \cdots \beta_5$ are parameters found by econometric analysis.

A recursive system such as shown in Eq. (4) would approximate equilibrium over a long enough period of time for any levels of the causal variables. However, in a dynamic situation, where the levels of the variables are changing continuously, the structure of Eq. (4) must be changed. This is done by substituting for the lagged value Q_{t-1} . To illustrate the principle, consider the structure of Eq. (4) with only one variable.

$$Q_t = A V_t^{\beta} A^{\lambda} V_{t-1}^{\lambda \beta} A^{\lambda^2} V_{t-2}^{\lambda^2 \beta} \cdots A^{\lambda^{n-1}} V_{t-(n-1)}^{\lambda^{n-1} \beta} Q_{t-n}^{\lambda^n}, \quad (5)$$

or

$$Q_t = A^{(1+\lambda+\lambda^2+\cdots+\lambda^{n-1})} V_t^{\beta} V_{t-1}^{\lambda \beta} V_{t-2}^{\lambda^2 \beta} \cdots Q_{t-n}^{\lambda^n}. \quad (6)$$

Now, with a given rate of growth, k , per unit time period,

$$V_{t-1} = V_t e^{-k}$$

$$V_{t-2} = V_t e^{-2k}$$

$$V_{t-3} = V_t e^{-3k}$$

etc.

then

$$Q_t = A^{(1+\lambda+\lambda^2+\cdots)} V_t^{\beta} (1+\lambda+\lambda^2+\cdots) e^{-k\beta(\lambda+2\lambda^2+3\lambda^3+\cdots)} Q_{t-n}^{\lambda^n}. \quad (7)$$

It can be shown that

$$s = 1 + \lambda + \lambda^2 + \cdots + \lambda^n = \frac{1 - \lambda^{n+1}}{1 - \lambda}; \quad (8)$$

$$S = \lambda + 2\lambda^2 + 3\lambda^3 + \dots + n\lambda^n = \frac{\lambda(1 - \lambda^{n+1})}{(1 - \lambda)^2} - \frac{\lambda^{n+1}(n + 1)}{1 - \lambda}. \quad (9)$$

The approach will be to determine the factor by which the quantity at time $t = n$ ($= 1985, 2000$) is greater than that in a base period, $t = b$ ($= 1974$) for the ORBES section of each state. Thus, equations (7), (8), and (9) substituted into Eq. (4) with the base period b as period $t - n$, give

$$\frac{Q_n}{Q_b} = A^S V_1^{\beta_1 S} \exp(-k_1 \beta_1 S) \dots V_5^{\beta_5 S} \exp(-k_5 \beta_5 S) \quad (10)$$

An intuitive discussion of Eq. (10) will describe the process. The coefficients β_j are short-run elasticities. Each of these is weighted for each year by $0 < \lambda < 1$ to the appropriate power for that year and applied to the corresponding variable as shown in Eq. (6), above. The effect of each variable is then represented by the sum of its individual short-term effects, with account taken for the change in the level of the variable itself as time passes. Neither Q_b in the base year nor Q_n in the terminal year are equilibrium amounts as compared with what these quantities would be if the variables were to remain for an infinite period of time at their levels in each of these years.

Values of A , λ , and β_1 through β_5 are given in Table III-B-25 from MCT. Values of s and S , defined in Eqs. (8) and (9), are given in Table III-B-26. Rates of growth of price are from Table III-B-16. Price-based projections of demand are given in Table III-B-27. Other sources of data, where relevant, are noted in the source for Table III-B-27.

Refer to Table III-B-27. Demand is given for two sectors; i.e., residential and commercial-industrial combined. The reason for combining the last two is that CMT's distinction between commercial and industrial is not the same as that used herein, on which the Energetics data are based.

Demand totals are compared with 1985 planned supply. The latter is calculated from planned capacity. With lead times for power plant construction close to ten years from inception to power generation, commitments are already made for capacity that will be in existence in 1985. Two kinds of adjustments were necessary to convert planned megawatts of capacity to megawatt hours of generation. These are the (1) export factor and (2) load factor.

The export factor refers to the percentage of power exported. In three of the four-state ORBES subsectors, more power was generated in 1974 than was used within the subsector. The exact figures are shown in Table III-B-3C for each of the states. For purposes of calculating megawatt hours of supply to the subsector, the complement of the export factor, or the percentage consumed at home, is the more useful concept. The following are percentages of generation given over to home consumption:

Table III-B-25
MOUNT, CHAPMAN, TYRRELL COEFFICIENTS

		A Census Div. Constant	λ Dimension- less	β_1 Population, Thousands	β_2 Personal Income Per Capita, \$ ^a	β_3 Price of Electricity Mills/kW-h ^b	β_4 Price of Gas, \$ Per 10^3 Therms ^a	β_5 Price of Appliances, Index ^a
Ohio	R ^b	1.616	0.8859	0.12	0.02	-0.14	0.02	-0.05
	C ^b	1.810	0.8735	0.13	0.11	-0.18	0.01	0
	I ^b	1.618	0.8869	0.12	0.06	-0.21	0	0
Indiana	R	1.616	0.8859	0.12	0.02	-0.14	0.02	-0.05
	C	1.810	0.8735	0.13	0.11	-0.17	0.01	0
	I	1.618	0.8869	0.12	0.06	-0.23	0	0
Illinois	R	1.616	0.8859	0.12	0.02	-0.14	0.02	-0.05
	C	1.810	0.8735	0.13	0.12	-0.19	0.01	0
	I	1.618	0.8869	0.12	0.05	-0.23	0	0
Kentucky	R	1.623	0.8859	0.11	0.02	-0.14	0.02	-0.05
	C	1.754	0.8735	0.13	0.10	-0.14	0.01	0
	I	1.648	0.8869	0.13	0.07	-0.18	0	0

(a) 1970 dollars

(b) R: residential
C: commercial
I: industrial

SOURCE: Mount, T.D., Chapman, L. D., and Tyrrell, T. L., "Electricity Demand in the United States: An Econometric Analysis," Oak Ridge National Laboratory, 1973 (NSF/EP-49).

Table III-B-26

VALUES OF s AND S
($n = 10$)

	λ	s	S
Residential	0.8859	6.155	24.67
Commercial	0.8735	5.861	22.61
Industrial	0.8869	6.179	24.84

SOURCE: Calculation based on Eqs. (8) and (9).

Table III-B-27
 PRICE-BASED PROJECTIONS,
 ORBES COUNTIES BY STATE
 1985
 (THOUSANDS OF MEGAWATT HOURS)

	Demand		Total	Supply, Planned, Total
	Residential	Commercial + Industrial		
Illinois	12,562	17,161	29,723	29,480
Indiana	18,705	29,400	48,105	65,477
Kentucky	19,258	32,852	52,110	75,976
Ohio	34,327	55,140	89,467	149,606

SOURCE: Demand calculation based on Eq. (10) using coefficients from Tables III-B-25 and III-B-26, plus the following:

V_1 (population): Table II-B-2-1 ORBES Report

V_2 (per capita income): Table III-B-5 with 2.7 percent annual growth, U.S. F.E.A., National Energy Outlook (1976), p. C-22, Table 9b.

V_3 (price of electricity): Tables III-B-1, III-B-16, and III-B-17.

V_4 (price of gas): Table III-B-2, III-B-16, and III-B-19.

V_5 (appliance prices): Survey of Current Business, trends of 1960-74 extrapolated.

Supply calculation based on Table 1 g/h-16 ORBES Task 1 Report with export factors and load factors calculated as described in the text.

Illinois ORBES Counties:	29.5%
Indiana ORBES Counties:	69.7%
Kentucky ORBES Counties:	81.5%
Ohio ORBES Counties:	116.5%

Thus, net exports are more than 70 percent of the power generated in Illinois-ORBES. In Indiana net exports are about 30 percent; in Kentucky, about 20 percent; and in Ohio-ORBES, there are net imports; i.e., 16.5 percent more power is consumed than is generated. In order to estimate local planned supply, the same percentages were assumed to hold in 1985.

Second, a target load factor of 67 percent was assumed for 1985. The 1975 load factor was 61 percent (2, p. 236). FEA regards a 67 percent load factor as attainable in 1985 with reasonable load management techniques (2, p. 237). (A model of peak load pricing for the purpose is included in Appendix A, below.)

On the supply side, there is the question of a reserve margin. Normal practice is to allow 20 percent. FEA reports that in recent years excess reserves have been 14 percent above the traditional 20 percent (2, p. 222). The reasons for this are not clear. Large units (600 MW and above) installed today are less reliable than in the past (3, pp. 18-20). It is also, of course, possible that capacity has been overbuilt. But neither explanation would seem acceptable for a long run analysis. Accordingly, the traditional 20 percent excess reserve margin will be used herein.

The foregoing considerations are brought into the calculation of planned supply in the following way. Planned megawatts of capacity, as given in the source for Table III-B-27, are multiplied by 8760, the number of hours in a year. The result is multiplied by (1) the fraction not exported; (2) the load factor 0.67; and (3) the capacity factor 0.80. The last allows for the 20 percent reserve margin.

A comparison of total demand and planned supply in Table III-B-27 shows that the latter significantly exceeds the former in all state-ORBES subsectors except Illinois. This result would be changed but little if the 1975 load factor of 61 percent were used instead of 67 percent. From a benefit-cost standpoint, the implication is that costs exceed benefits except in Illinois. This conclusion, however, is based on only the price-based analysis and applies only to one of the two target years being considered, 1985.

4.2 QUANTITY-BASED PROJECTIONS

Quantity-based projections are made to both 1985 and 2000. The same planned supply is used for the former as in Table III-B-27, and for the same reason; i.e., capacity on the line by year 1985 is already committed. On the other hand, supply planned for year 2000 is a policy variable today. Alternative levels of planned supply, as developed for the purpose of ORBES, will be used for comparison with the quantity-based projections to 2000.

4.2.1 1985 PROJECTIONS

Quantity-based projections to 1985 are shown in Table III-B-21 by states and counties. These are based on quantity growth rates shown in Table III-B-16. ORBES county totals are summarized in Table III-B-28.

Refer to Table III-B-28. The comparison of demand and supply leads to the same conclusions as in Table III-B-27; i.e., planned supply is higher than demand is expected to be, on the basis of the same home consumption ratios as existed in 1974 with the load factor of 67 percent and a 20 percent reserve margin. Even if the load factor were reduced to 61 percent, as in 1975, there would be excess supply. The implication is that benefits fall correspondingly short of costs with planned supply.

It is significant that the same conclusion is reached for both the price-based and the quantity-based projections. The former were derived from the CMT model and price growth rates. The latter were derived from quantity growth. Each of the price and quantity growth rates were independently inferred from a series of different economy-wide models.

Table III-B-28

QUANTITY-BASED PROJECTIONS
ORBES COUNTIES BY STATE
1985
(MILLIONS OF MEGAWATT HOURS)

	Demand				Supply, Planned
	Residential	Commercial	Industrial	Total ^a	
Illinois	9	4	11	24	29
Indiana	24	9	22	55	65
Kentucky	33	27	30	66	75
Ohio	37	24	47	107	149

(a) Totals may differ slightly, due to rounding.

SOURCE: Demand is from Table III-B-2TC, Appendices B, C, D, and E.
Planned supply is from Table III-B-27.

4.2.2 2000 PROJECTIONS

Demand projections to the year 2000 for electric power appear in Table III-B-22, Appendix B, C, D, and E. These have been summarized by ORBES counties within states in Table III-B-29. Only total demand is reported. Because of the greater error in making projections so far into the future, details by customer class are omitted from Table III-B-29.

Supply projections were made by the Energy Resources Center of the University of Illinois at Chicago Circle, based on the Bureau of Mines and Technical Fix assumptions adopted in the ORBES study. The Energy Resources Center projections were of installed capacity, corrected to year 2000 for retirements as well as additions, and distributed among the ORBES states. Capacity projections were corrected to megawatt-hours using the same home consumption factors, load factors, and reserve margins as in Tables III-B-27 and III-B-28.

Comparing total demand with supply in Table III-B-29, it is clear that the TF projections come closer to our demand projections than do the BOM. Moreover, the demand projections are relatively high compared to what might

Table III-B-29

QUANTITY-BASED PROJECTIONS
ORBES COUNTIES BY STATE
2000
(MILLIONS OF MEGAWATT HOURS)

	Total Demand	Supply	
		BOM	TF
Illinois	46	72	28
Indiana	109	176	68
Kentucky	134	202	78
Ohio	203	472	182

SOURCE: Demand is from Table III-B-22C. Supply is from Energy Resources Center, University of Illinois at Chicago Circle, Forecasts of Electric Power and Energy Requirements for the ORBES States and the ORBES Subregions Through the Year 2000, (1976), Tables 11-14 and 21-24, adjusted for same export factors, load factors, and reserve margin as used in Tables III-B-27 and III-B-28 of the present report.

reasonably be achieved by load management in the year 2000. It will be recalled that a load factor of 67 percent is used in Table III-B-29. This is the load factor projected by FEA for 1985. By the year 2000, a higher load factor might very well be achieved.

A final observation goes back to a point noted early in this study; the BOM forecasts were not derived from an economic model, but from independent projection of past trends, qualified implicitly by the authors' expectations about economic matters. Forecasting is far from a precise science, but we know enough about it to rank as more promising the general model approach than that used by BOM. At the same time, it is important to note that the TF scenario assumed a particular policy orientation. However sophisticated the Ford Foundation model, the TF projections also rest on policy assumptions. It turns out that the growth rates we have used, which were based on a survey of models, combined with the expectation that public policy would give some play to conservation as a goal, come out relatively close to the Ford Foundation (TF) supply projections.

REFERENCES

1. T. D. Mount, L. D. Chapman, T. L. Tyrrell. "Electricity Demand in the United States: An Econometric Analysis." Oak Ridge National Laboratory, 1973 (NSF/EP-49).
2. U.S. Federal Energy Administration, National Energy Outlook. Washington, 1976.
3. U.S. Federal Energy Administration, A Report on Improving the Productivity of Electric Powerplants. Washington, 1975.

APPENDIX A
PEAK LOAD PRICING MODEL

APPENDIX A

PEAK LOAD PRICING MODEL

In general, elasticity of demand is defined as

$$\eta = \frac{dQ/Q}{dP/P} = \frac{d(\ln Q)}{d(\ln P)} . \quad (A-1)$$

Integration and rearrangement gives

$$Q = AP^\eta , \quad (A-2)$$

where A is the number whose logarithm is the integration constant. Elasticity η is negative when P and Q both apply to the same commodity; i.e., for "own" price elasticity. It is positive when P and Q apply to each of two substitute commodities. The latter is, then, a cross elasticity.

Now, consider two different times of the day, say, two discrete hours, i and j , in which there is electric power demand. On the assumption that demand in one hour is substitutable for demand in the other hour,

$$Q_i = A_i P_i^{-\eta_{ii}} P_j^{\eta_{ij}} \quad (A-3)$$

and

$$Q_j = A_j P_j^{-\eta_{jj}} P_i^{\eta_{ji}} . \quad (A-4)$$

The double subscripts indicate own and cross elasticities, respectively. Negative signs have been added to distinguish the expected signs of the own and cross elasticities. It can be shown that

$$\eta_{ii}\eta_{jj} = \eta_{ij}\eta_{ji} . \quad (A-5)$$

Let i and j be numbered from 1 to 24 for the hours of the day, but any hour may take on the value $i = 1$ and all hours before and after it are numbered in ascending order. Consider the case in which all days are alike. Then, numbering may cross the date line in either direction. We hypothesize that own elasticities and cross-hour elasticities are related by a decay constant, k :

$$\eta_{ij} = -\eta_{ii} \exp[-(j - i) k] . \quad (A-6)$$

In general, for each hour, i :

$$Q_i = A_i P_i^{-\eta_{ii}} \prod_{j=2}^{24} P_j^{-\eta_{ii}} \exp[-(j - i) k] \quad i, j = 1 \dots 24 . \quad (A-7)$$

Thus, there are 24 parameters n_{ij} , 24 parameters A_j , and the parameter k to be simultaneously estimated. The estimation process could be simplified by grouping together selected hours and by truncating the decay relationship such that only those cross elasticities having

$$\exp[-(j - i) k] > \epsilon$$

are considered. Since k is a parameter to be estimated, the last condition would require a trial and error process.

APPENDIX B

ILLINOIS

Sources for Tables

No. III-B-

- 1 U.S. Federal Power Commission, Typical Electric Bills, 1974.
- 3 Drysdale, Frank R., and Calef, Charles E., The Energistics of the United States of America: An Atlas, (Brookhaven National Laboratory, 1976). Residential, commercial and industrial consumption was determined with the help of use factors as given in Eqs. (1), (2), and (3) in the text and related discussion.
- 4 Ibid.
- 5 U.S. Bureau of the Census, County and City Data Book, 1972 (U.S. Government Printing Office, 1973).
- 17 Growth rates for 1975-85 from Table III-B-16 applied to prices in Table III-B-1. Prices are in 1974 dollars.
- 18 Growth rates for 1975-2000 from Table III-B-16 applied to prices in Table III-B-1. Prices are in 1974 dollars.
- 21 Growth rates for 1975-85 from Table III-B-16 applied to quantities in Table III-B-3.
- 22 Growth rates for 1975-2000 from Table III-B-16 applied to quantities in Table III-B-3.
- 23 Growth rates for 1975-85 from Table III-B-16 applied to quantities in Table III-B-4.
- 24 Growth rates in 1975-2000 from Table III-B-16 applied to quantities in Table III-B-4.

TABLE 1A: ELECTRICITY PRICES FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2001 BROWN	9.35	3.7	62.39	4.2	2266.	1.9
2002 CASS	10.33	4.1	62.39	4.2	2266.	1.9
2003 CLARK	9.74	3.9	62.39	4.2	2266.	1.9
2004 GREEN	10.33	4.1	62.39	4.2	2266.	1.9
2005 HAMILTON	9.30	3.7	62.39	4.2	2266.	1.9
2018 HANCOCK	9.15	3.7	62.39	4.2	2266.	1.9
2019 HENDERSON	9.39	3.8	62.39	4.2	2266.	1.9
2006 IROQUOIS	10.33	4.1	62.39	4.2	2266.	1.9
2007 JERSEY	10.33	4.1	62.39	4.2	2266.	1.9
2008 LAWRENCE	10.33	4.1	62.39	4.2	2266.	1.9
2020 LIVINGSTON	9.68	3.9	62.39	4.2	2266.	1.9
2009 MARSHALL	8.84	3.5	62.39	4.2	2266.	1.9
2010 MERCER	8.12	3.2	62.39	4.2	2266.	1.9
2011 PERRY	8.12	3.2	62.39	4.2	2266.	1.9
2012 PULASKI	9.35	3.7	62.39	4.2	2266.	1.9
2013 ST.CLAIR	8.39	3.4	62.39	4.2	2266.	1.9
2014 SCHUYLER	10.33	4.1	62.39	4.2	2266.	1.9
2015 SCOTT	9.35	3.7	62.39	4.2	2266.	1.9
2016 WASHINGT	8.12	3.2	62.39	4.2	2266.	1.9
2017 WHITE	8.32	3.3	62.39	4.2	2266.	1.9

TABLE 1B: ELECTRICITY PRICES FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2021 CHAMPAIG	9.54	3.8	56.52	3.8	2120.	1.8
2022 HENRY	8.77	3.5	62.39	4.2	2266.	1.9
2023 MACON	8.87	3.5	77.61	5.2	2144.	1.8
2024 MADISON	8.23	3.3	62.39	4.2	2266.	1.9
2025 MCLEAN	8.59	3.4	62.39	4.2	2266.	1.9
2026 PEORIA	8.84	3.5	53.04	3.5	2443.	2.0
2027 SANGAMON	8.06	3.2	62.39	4.2	2266.	1.9
2028 TAZEWELL	8.94	3.6	62.39	4.2	2266.	1.9
2029 WOODFORD	9.39	3.8	62.39	4.2	2266.	1.9

TABLE 1C: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2030 ADAMS	9.76	3.9	62.39	4.2	2266.	1.9
2031 ALEXANDER	6.25	2.5	62.39	4.2	2266.	1.9
2032 BOND	8.12	3.2	62.39	4.2	2266.	1.9
2033 BUREAU	8.71	3.5	62.39	4.2	2266.	1.9
2034 CALHOUN	9.39	3.8	62.39	4.2	2266.	1.9
2035 CHRISTIANA	10.73	4.3	62.39	4.2	2266.	1.9
2036 CLAY	9.28	3.7	62.39	4.2	2266.	1.9
2037 CLINTON	8.56	3.4	62.39	4.2	2266.	1.9
2038 COLES	10.65	4.3	62.39	4.2	2266.	1.9
2039 CRAWFORD	10.33	4.1	62.39	4.2	2266.	1.9
2040 CUMBERLAND	9.39	3.8	62.39	4.2	2266.	1.9
2041 DEWITT	8.12	3.2	62.39	4.2	2266.	1.9
2042 DOUGLASS	9.39	3.8	62.39	4.2	2266.	1.9
2043 EDGAR	10.33	4.1	62.39	4.2	2266.	1.9
2044 EDWARDS	9.39	3.8	62.39	4.2	2266.	1.9
2045 EFFINGHAM	9.39	3.8	62.39	4.2	2266.	1.9
2046 FAYETTE	9.39	3.8	62.39	4.2	2266.	1.9
2047 FORD	10.33	4.1	62.39	4.2	2266.	1.9
2048 FRANKLIN	10.33	4.1	62.39	4.2	2266.	1.9
2049 FULTON	9.83	3.9	62.39	4.2	2266.	1.9
2050 GALLATIN	9.39	3.8	62.39	4.2	2266.	1.9
2051 GRUNDY	9.68	3.9	62.39	4.2	2266.	1.9
2052 HARDIN	9.39	3.8	62.39	4.2	2266.	1.9
2053 JACKSON	10.62	4.2	62.39	4.2	2266.	1.9
2054 JASPER	9.50	3.8	62.39	4.2	2266.	1.9
2055 JEFFERSON	8.12	3.2	62.39	4.2	2266.	1.9
2056 JOHNSON	9.39	3.8	62.39	4.2	2266.	1.9
2057 KANKAKEE	9.68	3.9	62.39	4.2	2266.	1.9
2058 KNOX	8.19	3.3	62.39	4.2	2266.	1.9
2059 LASALLE	8.14	3.3	62.39	4.2	2266.	1.9
2060 LOGAN	9.40	3.8	62.39	4.2	2266.	1.9
2061 MARION	8.12	3.2	62.39	4.2	2266.	1.9
2062 MCDONOUGH	10.33	4.1	62.39	4.2	2266.	1.9
2063 MACOUPIN	8.12	3.2	62.39	4.2	2266.	1.9
2064 MASON	10.33	4.1	62.39	4.2	2266.	1.9
2065 MASSAC	8.50	3.4	62.39	4.2	2266.	1.9
2066 MENNARD	10.33	4.1	62.39	4.2	2266.	1.9
2067 MONROE	8.12	3.2	62.39	4.2	2266.	1.9
2068 MONTGOMERY	8.85	3.5	62.39	4.2	2266.	1.9
2069 MORGAN	8.12	3.2	62.39	4.2	2266.	1.9
2070 MOULTRIE	8.05	3.2	62.39	4.2	2266.	1.9
2071 PIATT	8.12	3.2	62.39	4.2	2266.	1.9
2072 PIKE	10.33	4.1	62.39	4.2	2266.	1.9
2073 POPE	9.39	3.8	62.39	4.2	2266.	1.9
2074 PUTNAM	9.39	3.8	62.39	4.2	2266.	1.9
2075 RANDOLPH	8.63	3.5	62.39	4.2	2266.	1.9
2076 RICHLAND	10.33	4.1	62.39	4.2	2266.	1.9
2077 SALINE	9.22	3.7	62.39	4.2	2266.	1.9
2078 SHELBY	10.33	4.1	62.39	4.2	2266.	1.9
2079 STARK	9.39	3.8	62.39	4.2	2266.	1.9

TABLE 1C: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2080 UNION	10.33	4.1	62.39	4.2	2266.	1.9
2081 VERMILLI	8.85	3.5	62.39	4.2	2266.	1.9
2082 WABASH	10.29	4.1	62.39	4.2	2266.	1.9
2083 WARREN	8.12	3.2	62.39	4.2	2266.	1.9
2084 WAYNE	9.76	3.9	62.39	4.2	2266.	1.9
2085 WILLIAMS	10.52	4.2	62.39	4.2	2266.	1.9
2086 BOONE	19.39	7.8	62.39	4.2	2266.	1.9

TABLE 10: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2087 CARROLL	10.15	4.1	62.39	4.2	2266.	1.9
2088 COOK	9.93	4.0	79.34	5.3	2469.	2.1
2089 DEKALB	9.95	4.0	62.39	4.2	2266.	1.9
2090 DUPAGE	9.51	3.8	77.61	5.2	2426.	2.0
2091 LODAVIES	10.69	4.3	62.39	4.2	2266.	1.9
2092 KANE	9.68	3.9	77.61	5.2	2426.	2.0
2093 KENDALL	9.68	3.9	62.39	4.2	2266.	1.9
2094 LAKE	9.80	3.9	77.61	5.2	2266.	1.9
2095 MCHENRY	9.86	3.9	62.39	4.2	2266.	1.9
2096 OGLE	9.49	3.8	62.39	4.2	2266.	1.8
2097 ROCKTSLA	8.99	3.6	53.14	3.5	2201.	1.9
2098 LEE	9.68	3.9	62.39	4.2	2266.	1.9
2099 STEPHENS	9.68	3.9	62.39	4.2	2266.	1.9
2100 WHITESID	9.68	3.9	62.39	4.2	2266.	1.9
2101 WINNEBAG	8.80	3.5	62.39	4.2	2411.	2.0
2102 WILL	9.68	3.9	77.61	5.2	2426.	2.0

TABLE 3A: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
2001 BROWN	6.	0.	20.	26.	0.
2002 CASS	16.	3.	44.	63.	0.
2003 CLARK	15.	0.	52.	67.	0.
2004 GREEN	18.	2.	58.	78.	0.
2005 HAMILTON	8.	1.	19.	29.	0.
2018 HANCOCK	28.	1.	77.	106.	0.
2019 HENDERSON	10.	0.	31.	41.	0.
2006 IROQUOIS	40.	12.	119.	171.	0.
2007 JERSEY	22.	1.	41.	64.	0.
2008 LAWRENCE	21.	0.	36.	57.	0.
2020 LIVINGSTON	56.	3.	141.	199.	0.
2009 MARSHALL	17.	7.	42.	66.	0.
2010 MERCER	20.	0.	64.	85.	0.
2011 PERRY	21.	11.	37.	69.	0.
2012 PULASKI	7.	1.	12.	20.	0.
2013 ST.CLAIR	357.	152.	386.	895.	0.
2014 SCHUYLER	10.	0.	28.	38.	0.
2015 SCOTT	7.	0.	21.	28.	18.
2016 WASHINGT	17.	1.	36.	55.	0.
2017 WHITE	20.	3.	50.	72.	0.
SUBTOTAL	717.	198.	1314.	2229.	10.

TABLE 3B: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
2021 CHAMPAIG	250.	37.	336.	623.	309.
2022 HENRY	71.	20.	171.	262.	0.
2023 MACON	157.	178.	217.	552.	0.
2024 MADISON	295.	312.	329.	936.	6010.
2025 MCLEAN	128.	106.	229.	463.	0.
2026 PEORIA	280.	179.	428.	887.	2429.
2027 SANGAMON	246.	91.	358.	695.	488.
2028 TAZEWELL	139.	190.	155.	484.	3089.
2029 WOODFORD	39.	5.	88.	132.	0.
SUBTOTAL	1606.	1118.	2310.	5034.	12325.

TABLE 3C: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
2030 ADAMS	77.	76.	144.	298.	0.
2031 ALEXANDER	10.	5.	26.	41.	0.
2032 BOND	15.	7.	31.	53.	0.
2033 BUREAU	49.	17.	116.	182.	0.
2034 CALHOUN	6.	0.	15.	21.	0.
2035 CHRISTIANA	42.	12.	112.	165.	6183.
2036 CLAY	17.	4.	34.	55.	0.
2037 CLINTON	30.	10.	59.	99.	0.
2038 COLES	56.	32.	115.	203.	0.
2039 CRAWFORD	22.	24.	36.	82.	1047.
2040 CUMBERLAND	11.	1.	27.	40.	0.
2041 DEWITT	23.	10.	52.	85.	0.
2042 DOUGLASS	21.	24.	42.	87.	0.
2043 EDGAR	25.	11.	62.	99.	0.
2044 EDWARDS	3.	17.	7.	27.	0.
2045 EFFINGHAM	26.	8.	73.	107.	0.
2046 FAYETTE	22.	4.	52.	78.	0.
2047 FORD	21.	6.	64.	91.	0.
2048 FRANKLIN	41.	4.	65.	111.	0.
2049 FULTON	43.	36.	86.	165.	0.
2050 GALLATIN	7.	2.	19.	28.	0.
2051 GRUNDY	39.	14.	55.	108.	9939.
2052 HARDIN	5.	0.	10.	15.	0.
2053 JACKSON	66.	12.	93.	171.	1024.
2054 JASPER	13.	1.	37.	51.	0.
2055 JEFFERSON	36.	9.	66.	112.	0.
2056 JOHNSON	8.	0.	15.	23.	0.
2057 KANKAKEE	109.	110.	205.	424.	0.
2058 KNOX	79.	55.	143.	276.	0.
2059 LASALLE	129.	119.	250.	498.	0.
2060 LOGAN	37.	33.	82.	152.	0.
2061 MARION	45.	14.	84.	143.	0.
2062 MCDONOUGH	41.	14.	98.	153.	0.
2063 MACOUPIN	53.	5.	112.	170.	0.
2064 MASON	23.	3.	54.	79.	1103.
2065 MASSAC	14.	7.	23.	44.	7025.
2066 MENNARD	1.	44.	4.	49.	0.
2067 MONROE	25.	1.	42.	68.	0.
2068 MONTGOMERY	34.	8.	89.	131.	552.
2069 MORGAN	43.	29.	96.	167.	1435.
2070 MOULTRIE	16.	6.	37.	59.	0.
2071 PIATT	17.	33.	25.	75.	0.
2072 PIKE	21.	3.	76.	100.	313.
2073 POPE	4.	0.	6.	10.	0.
2074 PUTNAM	6.	3.	13.	22.	1776.
2075 RANDOLPH	35.	17.	61.	113.	1747.
2076 RICHLAND	4.	55.	9.	67.	0.
2077 SALINE	29.	2.	68.	99.	0.
2078 SHELBY	26.	3.	66.	95.	0.
2079 STARK	9.	2.	29.	40.	0.

TABLE 3C: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
2080 UNION	18.	5.	28.	52.	0.
2081 VERMILLI	119.	99.	184.	402.	1017.
2082 WABASH	15.	10.	26.	51.	0.
2083 WARREN	25.	8.	80.	113.	0.
2084 WAYNE	11.	27.	23.	61.	0.
2085 WILLIAMS	46.	18.	87.	151.	1488.
2086 BOONE	27.	58.	42.	127.	0.
SUBTOTAL	1795.	1138.	3656.	6588.	34649.
ORBES-TOTAL	4117.	2454.	7280.	13851.	46992.

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TABLE 3D: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
2087 CARROLL	24.	3.	73.	100.	0.
2088 COOK	8483.	6094.	9431.	24009.	11126.
2089 DEKALB	91.	61.	160.	312.	0.
2090 DUPAGE	1017.	191.	939.	2147.	0.
2091 LODAVIES	26.	2.	61.	89.	0.
2092 KANE	443.	101.	578.	1122.	0.
2093 KENDALL	45.	0.	64.	109.	0.
2094 LAKE	823.	108.	742.	1673.	5084.
2095 MCHENRY	166.	114.	200.	480.	0.
2096 OGLE	53.	37.	116.	206.	0.
2097 ROCKTSLA	224.	226.	263.	712.	10397.
2098 LEE	43.	20.	96.	160.	790.
2099 STEPHENS	56.	59.	111.	227.	0.
2100 WHITESID	162.	41.	85.	287.	0.
2101 WINNEBAG	348.	363.	345.	1056.	1448.
2102 WILL	319.	222.	406.	947.	14175.
SUBTOTAL	12323.	7644.	13669.	33636.	43020.
STATE-TOTAL	16439.	10099.	20949.	47487.	90012.

TABLE 4A - NATURAL GAS CONSUMPTION FOR BILLIONS OF BTU'S - PLANT COUNTIES

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2001 BROWN	117.	2.	321.	440.
2002 CASS	359.	44.	764.	1166.
2003 CLARK	330.	0.	859.	1189.
2004 GREEN	387.	34.	974.	1395.
2005 HAMILTON	185.	20.	330.	536.
2018 HANCOCK	603.	7.	1301.	1911.
2019 HENDERSON	200.	0.	511.	711.
2006 IROQUOIS	917.	164.	2112.	3193.
2007 JERSEY	462.	12.	689.	1163.
2008 LAWRENCE	443.	0.	588.	1031.
2020 LIVINGSTON	1280.	37.	2529.	3846.
2009 MARSHALL	401.	109.	790.	1300.
2010 MERCER	423.	6.	1050.	1479.
2011 PERRY	547.	178.	749.	1474.
2012 PULASKI	159.	15.	215.	389.
2013 ST.CLAIR	9438.	2526.	7986.	19950.
2014 SCHUYLER	209.	0.	457.	666.
2015 SCOTT	144.	5.	346.	495.
2016 WASHINGT	379.	19.	619.	1017.
2017 WHITE	432.	36.	855.	1323.
SUBTOTAL	17414.	3214.	24046.	44674.

TABLE 4B: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2021 CHAMPAIG	5731.	533.	6013.	12277.
2022 HENRY	1643.	288.	3099.	5030.
2023 MACON	5130.	3671.	5574.	14375.
2024 MADISON	14271.	9495.	12453.	36218.
2025 MCLEAN	3248.	1701.	4544.	9493.
2026 PEORIA	7735.	3104.	9242.	20081.
2027 SANGAMON	6166.	1433.	7025.	14624.
2028 TAZEWELL	6057.	5223.	5275.	16556.
2029 WOODFORD	869.	77.	1549.	2495.
SUBTOTAL	50850.	25525.	54774.	131149.

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TABLE 4C: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2030 ADAMS	2300.	1433.	3372.	7106.
2031 ALEXANDER	250.	79.	493.	822.
2032 BOND	386.	115.	605.	1106.
2033 BUREAU	1147.	253.	2156.	3556.
2034 CALHOUN	128.	1.	249.	377.
2035 CHRISTIANA	975.	175.	2052.	3202.
2036 CLAY	393.	65.	623.	1081.
2037 CLINTON	719.	146.	1112.	1977.
2038 COLES	1455.	515.	2336.	4307.
2039 CRAWFORD	689.	462.	883.	2035.
2040 CUMBERLAND	129.	10.	239.	379.
2041 DEWITT	559.	159.	994.	1713.
2042 DOUGLASS	653.	473.	1011.	2137.
2043 EDGAR	613.	174.	1189.	1976.
2044 EDWARDS	0.	0.	0.	0.
2045 EFFINGHAM	599.	118.	1319.	2036.
2046 FAYETTE	497.	63.	913.	1474.
2047 FORD	475.	83.	1140.	1698.
2048 FRANKLIN	930.	61.	1148.	2138.
2049 FULTON	949.	507.	1501.	2957.
2050 GALLATIN	163.	33.	345.	541.
2051 GRUNDY	978.	223.	1082.	2284.
2052 HARDIN	101.	0.	166.	267.
2053 JACKSON	1433.	164.	1596.	3193.
2054 JASPER	268.	14.	617.	899.
2055 JEFFERSON	857.	138.	1219.	2214.
2056 JOHNSON	169.	0.	242.	411.
2057 KANKAKEE	3258.	2081.	4821.	10160.
2058 KNOX	2158.	947.	3061.	6166.
2059 LASALLE	3762.	2176.	5689.	11627.
2060 LOGAN	1044.	582.	1805.	3431.
2061 MARION	1080.	208.	1566.	2855.
2062 MCDONOUGH	967.	206.	1809.	2982.
2063 MACOUPIN	1148.	71.	1912.	3131.
2064 MASON	493.	35.	915.	1442.
2065 MASSAC	367.	107.	463.	936.
2066 MENNARD	33.	736.	75.	844.
2067 MONROE	534.	7.	703.	1244.
2068 MONTGOMERY	769.	121.	1572.	2462.
2069 MORGAN	1126.	480.	1986.	3592.
2070 MOULTRIE	389.	84.	692.	1165.
2071 PIATT	389.	487.	452.	1327.
2072 PIKE	450.	42.	1268.	1760.
2073 POPE	76.	0.	101.	177.
2074 PUTNAM	2717.	786.	4928.	8431.
2075 RANDOLPH	903.	269.	1216.	2388.
2076 RICHLAND	107.	1040.	209.	1356.
2077 SALINE	623.	27.	1143.	1793.
2078 SHELBY	561.	47.	1123.	1731.
2079 STARK	203.	23.	495.	721.

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TABLE 4C: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2080 UNION	441.	83.	530.	1053.
2081 VERMILLI	3490.	1843.	4232.	9565.
2082 WABASH	397.	166.	558.	1121.
2083 WARREN	592.	119.	1480.	2191.
2084 WAYNE	259.	396.	432.	1087.
2085 WILLIAMS	1189.	291.	1759.	3239.
2086 BOONE	1101.	1486.	1328.	3915.
SUBTOTAL	48442.	20412.	76924.	145778.
ORBES-TOTAL	116703.	49152.	155742.	321601.

TABLE 4D: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2087 CARROLL	526.	43.	1227.	1796.
2088 COOK	269732.	122082.	234827.	626641.
2089 DEKALB	2486.	1055.	3433.	6974.
2090 DUPAGE	24261.	2874.	17532.	44667.
2091 LODAVIES	570.	28.	1058.	1656.
2092 KANE	12537.	1805.	12820.	27162.
2093 KENDALL	963.	0.	1054.	2017.
2094 LAKE	27653.	2289.	19539.	49482.
2095 MCHENRY	4803.	2083.	4529.	11415.
2096 OGLE	1408.	625.	2426.	4460.
2097 ROCKTSLA	9023.	5737.	8297.	23057.
2098 LEE	1703.	507.	2971.	5181.
2099 STEPHENS	1694.	1119.	2613.	5426.
2100 WHITESID	4306.	681.	1762.	6749.
2101 WINNEBAG	14735.	9701.	11433.	35869.
2102 WILL	18698.	8213.	18659.	45570.
SUBTOTAL	395099.	158842.	344180.	898122.
STATE-TOTAL	511802.	207994.	499922.	1219723.

TABLE 5A: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN DRBES PLANT COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
2001 BROWN	2241.	5586.	13.	10.	0.	9.	5.
2002 CASS	2547.	14219.	36.	19.	6.	24.	42.
2003 CLARK	2698.	16216.	44.	39.	0.	25.	14.
2004 GREEN	2370.	17014.	40.	34.	4.	23.	20.
2005 HAMILTON	2111.	8665.	18.	8.	3.	10.	7.
2018 HANCOCK	2564.	23645.	61.	38.	1.	35.	43.
2019 HENDERSON	2534.	8451.	21.	19.	0.	11.	16.
2006 TROQUETS	2762.	33532.	93.	62.	21.	57.	80.
2007 JERSEY	2453.	18492.	45.	15.	2.	23.	10.
2008 LAWRENCE	2457.	17522.	43.	9.	0.	22.	22.
2020 LIVINGST	2908.	40690.	118.	59.	4.	72.	65.
2009 MARSHALL	2914.	13302.	39.	21.	13.	22.	31.
2010 MERCER	2588.	17294.	45.	35.	1.	27.	20.
2011 PERRY	2500.	19757.	49.	10.	20.	28.	807.
2012 PULASKI	1730.	8741.	15.	4.	2.	7.	805.
2013 ST.CLAIR	2818.	285176.	804.	22.	267.	357.	519.
2014 SCHUYLER	2679.	8135.	22.	16.	0.	10.	519.
2015 SCOTT	2479.	6096.	15.	11.	1.	9.	516.
2016 WASHINGT	2720.	13780.	37.	18.	2.	16.	516.
2017 WHITE	2520.	17312.	44.	13.	5.	35.	531.
SUBTOTAL		593625.	1602.	462.	350.	823.	4587.

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TABLE 5B1 OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	PER CAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
2021 CHAMPAIG	3214.	163281.	525.	50.	61.	257.	330.
2022 HENRY	3027.	53217.	161.	76.	35.	93.	58.
2023 MACON	3350.	125010.	419.	29.	372.	225.	267.
2024 MADISON	3110.	250934.	780.	24.	645.	356.	230.
2025 MCLEAN	3188.	104389.	333.	73.	217.	186.	256.
2026 PEORIA	3452.	195318.	674.	25.	336.	424.	807.
2027 SANGAMON	3424.	161335.	552.	48.	160.	303.	380.
2028 TAZEWELL	3302.	118649.	392.	33.	420.	157.	312.
2029 WOODFORD	3032.	28012.	85.	33.	9.	51.	38.
SUBTOTAL		1200145.	3921.	392.	2255.	2052.	2678.

TABLE 5C: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
2030 ADAMS	2812.	70861.	199.	36.	154.	127.	120.
2031 ALEXANDE	1998.	12015.	24.	3.	9.	23.	30.
2032 BOND	2556.	14012.	36.	13.	13.	18.	14.
2033 BUREAU	2888.	38541.	111.	57.	31.	59.	56.
2034 CALHOUN	2307.	5675.	13.	7.	0.	7.	8.
2035 CHRISTIA	2629.	35948.	95.	39.	21.	72.	55.
2036 CLAY	2552.	14735.	38.	11.	8.	22.	15.
2037 CLINTON	2401.	28315.	68.	21.	17.	37.	44.
2038 COLES	2804.	47815.	134.	24.	59.	96.	44.
2039 CRAWFORD	2928.	19824.	58.	13.	48.	28.	17.
2040 CUMBERLA	2578.	9772.	25.	13.	3.	13.	11.
2041 DEWITT	3127.	16975.	53.	20.	19.	33.	35.
2042 DOUGLASS	2957.	18997.	56.	24.	51.	24.	33.
2043 EDGAR	2734.	21591.	59.	31.	21.	33.	46.
2044 EDWARDS	2475.	7090.	18.	10.	76.	7.	20.
2045 EFFINGHA	2442.	24608.	60.	19.	15.	55.	41.
2046 FAYETTE	2396.	20272.	49.	17.	8.	33.	28.
2047 FORD	2946.	16382.	48.	26.	11.	38.	52.
2048 FRANKLIN	2350.	38329.	90.	7.	7.	55.	15.
2049 FULTON	2727.	41890.	114.	33.	76.	68.	21.
2050 GALLATIN	2177.	7418.	16.	10.	4.	9.	12.
2051 GRUNDY	3292.	26535.	87.	16.	25.	38.	52.
2052 HARDIN	2055.	4914.	10.	1.	0.	8.	1.
2053 JACKSON	2537.	55008.	140.	10.	20.	77.	21.
2054 JASPER	2592.	10741.	28.	18.	2.	18.	26.
2055 JEFFERSO	2565.	31466.	81.	11.	16.	53.	31.
2056 JOHNSON	2197.	7550.	17.	4.	0.	9.	273.
2057 KANKAKEE	2900.	97250.	282.	34.	224.	199.	124.
2058 KNOX	3123.	61280.	191.	40.	104.	111.	85.
2059 LASALLE	2961.	111409.	330.	64.	237.	214.	163.
2060 LOGAN	2800.	33538.	94.	34.	65.	57.	36.
2061 MARION	2619.	38396.	101.	14.	24.	68.	52.
2062 MCDONOUG	2563.	36653.	94.	32.	25.	66.	57.
2063 MACOUP IN	2548.	44557.	114.	42.	9.	63.	42.
2064 MASON	3056.	16161.	49.	21.	4.	30.	60.
2065 MASSAC	2374.	13889.	33.	5.	12.	18.	12.
2066 MENNARD	2781.	9685.	27.	18.	751.	16.	24.
2067 MONROE	2741.	18831.	52.	14.	1.	24.	13.
2068 MONTGOME	2532.	30260.	77.	31.	15.	56.	45.
2069 MORGAN	2870.	36174.	104.	31.	55.	71.	61.
2070 MOULTRIE	2824.	13263.	37.	16.	10.	21.	24.
2071 PIATT	3141.	15509.	49.	10.	76.	22.	24.
2072 PIKE	2481.	19185.	48.	42.	6.	33.	27.
2073 POPE	1908.	3857.	7.	3.	0.	3.	1.
2074 PUTNAM	2777.	5007.	14.	9.	5.	5.	16.
2075 RANDOLPH	2609.	31379.	82.	16.	30.	46.	14.
2076 RICHLAND	2364.	16829.	40.	11.	482.	32.	21.
2077 SALINE	2437.	25721.	63.	7.	3.	58.	41.
2078 SHELBY	2507.	22589.	57.	32.	6.	32.	29.
2079 STARK	2798.	7510.	21.	18.	3.	10.	11.

TABLE 5C: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
2080 UNION	2502.	16071.	40.	7.	9.	20.	312.
2081 VERMILLI	3072.	97047.	298.	41.	196.	160.	136.
2082 WABASH	2754.	12841.	35.	8.	18.	19.	16.
2083 WARREN	2697.	21595.	58.	41.	15.	40.	49.
2084 WAYNE	2408.	17004.	41.	15.	78.	23.	35.
2085 WILLIAMS	2558.	49021.	125.	35.	38.	68.	400.
2086 BOONE	3340.	25440.	85.	17.	142.	40.	113.
SUBTOTAL		1595230.	4373.	1206.	3356.	2683.	3165.
ORBES-TOTAL		3389000.	9896.	2060.	5961.	5558.	10430.

TABLE 5D: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
2087 CARROLL	2819.	19276.	54.	41.	6.	30.	117.
2088 COOK	3771.	5488328.	20696.	17.	11640.	10028.	30450.
2089 DEKALB	3079.	71674.	221.	58.	116.	112.	103.
2090 DUPAGE	4258.	491882.	2094.	12.	308.	832.	1394.
2091 LODAVIES	2566.	21766.	56.	29.	3.	29.	14.
2092 KANE	3585.	251005.	900.	40.	161.	473.	274.
2093 KENDALL	3453.	26374.	91.	28.	0.	28.	12.
2094 LAKE	4179.	382638.	1599.	12.	164.	618.	252.
2095 MCHENRY	3602.	111555.	402.	40.	217.	172.	61.
2096 OGLE	3010.	42867.	129.	61.	71.	63.	51.
2097 ROCKTSLA	3661.	166734.	610.	20.	482.	293.	389.
2098 LEE	2666.	37947.	101.	44.	37.	55.	34.
2099 STEPHENS	3011.	48861.	147.	45.	121.	81.	43.
2100 WHITESID	2917.	249498.	728.	58.	143.	108.	61.
2101 WINNEBAG	3420.	246623.	843.	23.	690.	342.	218.
2102 WILL	3387.	249949.	847.	34.	462.	437.	400.
SUBTOTAL		7906976.	29519.	561.	14623.	13700.	33874.
STATE-TOTAL		11295976.	39415.	2621.	20584.	19258.	44304.

TABLE 17A: ELECTRICITY PRICES FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2001 BROWN	9.96	4.0	66.45	4.4	3222.	2.7
2002 CASS	11.00	4.4	66.45	4.4	3222.	2.7
2003 CLARK	10.37	4.1	66.45	4.4	3222.	2.7
2004 GREEN	11.00	4.4	66.45	4.4	3222.	2.7
2005 HAMILTON	9.90	4.0	66.45	4.4	3222.	2.7
2018 HANCOCK	9.74	3.9	66.45	4.4	3222.	2.7
2019 HENDERSON	10.00	4.0	66.45	4.4	3222.	2.7
2006 IROQUOIS	11.00	4.4	66.45	4.4	3222.	2.7
2007 JERSEY	11.00	4.4	66.45	4.4	3222.	2.7
2008 LAWRENCE	11.00	4.4	66.45	4.4	3222.	2.7
2020 LIVINGST	10.31	4.1	66.45	4.4	3222.	2.7
2009 MARSHALL	9.41	3.8	66.45	4.4	3222.	2.7
2010 MERCER	8.65	3.5	66.45	4.4	3222.	2.7
2011 PERRY	8.65	3.5	66.45	4.4	3222.	2.7
2012 PULASKI	9.96	4.0	66.45	4.4	3222.	2.7
2013 ST.CLAIR	8.94	3.6	66.45	4.4	3222.	2.7
2014 SCHUYLER	11.00	4.4	66.45	4.4	3222.	2.7
2015 SCOTT	9.96	4.0	66.45	4.4	3222.	2.7
2016 WASHINGT	8.65	3.5	66.45	4.4	3222.	2.7
2017 WHITE	8.86	3.5	66.45	4.4	3222.	2.7

TABLE 17B: ELECTRICITY PRICES FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2021 CHAMPAIG	10.16	4.1	60.19	4.0	3015.	2.5
2022 HENRY	9.34	3.7	66.45	4.4	3222.	2.7
2023 MACON	9.45	3.6	82.65	5.5	3049.	2.5
2024 MADISON	8.76	3.5	66.45	4.4	3222.	2.7
2025 MCLEAN	9.15	3.7	66.45	4.4	3222.	2.7
2026 PEORIA	9.41	3.8	56.49	3.8	3474.	2.9
2027 SANGAMON	8.58	3.4	66.45	4.4	3222.	2.7
2028 TAZEWELL	9.52	3.8	66.45	4.4	3222.	2.7
2029 WOODFORD	10.00	4.0	66.45	4.4	3222.	2.7

**TABLE 17C: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS**

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL			
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2030 ADAMS	10.39	4.2	66.45	4.4	3222.	2.7
2031 ALEXANDE	6.66	2.7	66.45	4.4	3222.	2.7
2032 BOND	8.65	3.5	66.45	4.4	3222.	2.7
2033 BUREAU	9.28	3.7	66.45	4.4	3222.	2.7
2034 CALHOUN	10.00	4.0	66.45	4.4	3222.	2.7
2035 CHRISTIA	11.43	4.6	66.45	4.4	3222.	2.7
2036 CLAY	9.88	4.0	66.45	4.4	3222.	2.7
2037 CLINTON	9.12	3.6	66.45	4.4	3222.	2.7
2038 COLES	11.34	4.5	66.45	4.4	3222.	2.7
2039 CRAWFORD	11.00	4.4	66.45	4.4	3222.	2.7
2040 CUMBERLA	10.00	4.0	66.45	4.4	3222.	2.7
2041 DEWITT	8.65	3.5	66.45	4.4	3222.	2.7
2042 DOUGLASS	10.00	4.0	66.45	4.4	3222.	2.7
2043 EDGAR	11.00	4.4	66.45	4.4	3222.	2.7
2044 EDWARDS	10.00	4.0	66.45	4.4	3222.	2.7
2045 EFFINGHA	10.00	4.0	66.45	4.4	3222.	2.7
2046 FAYETTE	10.00	4.0	66.45	4.4	3222.	2.7
2047 FORD	11.00	4.4	66.45	4.4	3222.	2.7
2048 FRANKLIN	11.00	4.4	66.45	4.4	3222.	2.7
2049 FULTON	10.47	4.2	66.45	4.4	3222.	2.7
2050 GALLATIN	10.00	4.0	66.45	4.4	3222.	2.7
2051 GRUNDY	10.31	4.1	66.45	4.4	3222.	2.7
2052 HARDIN	10.00	4.0	66.45	4.4	3222.	2.7
2053 JACKSON	11.31	4.5	66.45	4.4	3222.	2.7
2054 JASPER	10.12	4.0	66.45	4.4	3222.	2.7
2055 JEFFERSO	8.65	3.5	66.45	4.4	3222.	2.7
2056 JOHNSON	10.00	4.0	66.45	4.4	3222.	2.7
2057 KANKAKEE	10.31	4.1	66.45	4.4	3222.	2.7
2058 KNOX	8.72	3.5	66.45	4.4	3222.	2.7
2059 LASALLE	8.67	3.5	66.45	4.4	3222.	2.7
2060 LOGAN	10.01	4.0	66.45	4.4	3222.	2.7
2061 MARION	8.65	3.5	66.45	4.4	3222.	2.7
2062 MCDONOUG	11.00	4.4	66.45	4.4	3222.	2.7
2063 MACOUPIN	8.65	3.5	66.45	4.4	3222.	2.7
2064 MASON	11.00	4.4	66.45	4.4	3222.	2.7
2065 MASSAC	9.05	3.6	66.45	4.4	3222.	2.7
2066 MENNARD	11.00	4.4	66.45	4.4	3222.	2.7
2067 MONROE	8.65	3.5	66.45	4.4	3222.	2.7
2068 MONTGOME	9.43	3.8	66.45	4.4	3222.	2.7
2069 MORGAN	8.65	3.5	66.45	4.4	3222.	2.7
2070 MOULTRIE	8.57	3.4	66.45	4.4	3222.	2.7
2071 PIATT	8.65	3.5	66.45	4.4	3222.	2.7
2072 PIKE	11.00	4.4	66.45	4.4	3222.	2.7
2073 POPE	10.00	4.0	66.45	4.4	3222.	2.7
2074 PUTNAM	10.00	4.0	66.45	4.4	3222.	2.7
2075 RANDOLPH	9.19	3.7	66.45	4.4	3222.	2.7
2076 RICHLAND	11.00	4.4	66.45	4.4	3222.	2.7
2077 SALINE	9.82	3.9	66.45	4.4	3222.	2.7
2078 SHELBY	11.00	4.4	66.45	4.4	3222.	2.7
2079 STARK	10.00	4.0	66.45	4.4	3222.	2.7

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TABLE 17C: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2080 UNION	11.00	4.4	66.45	4.4	3222.	2.7
2081 VERMILLI	9.43	3.8	66.45	4.4	3222.	2.7
2082 HABASH	10.96	4.4	66.45	4.4	3222.	2.7
2083 WARREN	8.65	3.5	66.45	4.4	3222.	2.7
2084 WAYNE	10.39	4.2	66.45	4.4	3222.	2.7
2085 WILLIAMS	11.20	4.5	66.45	4.4	3222.	2.7
2086 BOONE	20.65	8.3	66.45	4.4	3222.	2.7

TABLE 17D: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2087 CARROLL	10.81	4.3	66.45	4.4	3222	2.7
2088 COOK	10.58	4.2	84.50	5.6	3511	2.9
2089 DEKALB	10.60	4.2	66.45	4.45	3222	2.9
2090 DUPAGE	10.13	4.1	82.65	4.4	3450	2.7
2091 LODAVIES	11.38	4.6	66.45	5.5	3222	2.9
2092 KANE	10.31	4.1	82.65	4.45	3222	2.7
2093 KENDALL	10.31	4.1	66.45	4.45	3222	2.7
2094 LAKE	10.44	4.2	82.65	5.5	3222	2.7
2095 MCHENRY	10.50	4.2	66.45	4.4	3222	2.7
2096 OGLE	10.11	4.0	66.45	4.4	3222	2.6
2097 ROCKTSLA	9.57	3.8	56.59	3.8	3130	2.7
2098 LEE	10.31	4.1	66.45	4.4	3222	2.7
2099 STEPHENS	10.31	4.1	66.45	4.4	3222	2.7
2100 WHITESID	10.31	4.1	66.45	4.4	3222	2.7
2101 WINNEBAG	9.37	3.7	66.45	4.4	3428	2.9
2102 WILL	10.31	4.1	82.65	5.5	3450	2.9

TABLE 18A: ELECTRICITY PRICES FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL			
	\$/250KWH C/KWH	\$/1500KWH C/KWH	\$/120,000KWH C/KWH			
2001 BROWN	8.21	3.3	54.78	3.7	4018.	3.3
2002 CASS	9.07	3.6	54.78	3.7	4018.	3.3
2003 CLARK	8.55	3.4	54.78	3.7	4018.	3.3
2004 GREEN	9.07	3.6	54.78	3.7	4018.	3.3
2005 HAMILTON	8.17	3.3	54.78	3.7	4018.	3.3
2018 HANCOCK	8.03	3.2	54.78	3.7	4018.	3.3
2019 HENDERSON	8.24	3.3	54.78	3.7	4018.	3.3
2006 IROQUOIS	9.07	3.6	54.78	3.7	4018.	3.3
2007 JERSEY	9.07	3.6	54.78	3.7	4018.	3.3
2008 LAWRENCE	9.07	3.6	54.78	3.7	4018.	3.3
2020 LIVINGSTON	8.50	3.4	54.78	3.7	4018.	3.3
2009 MARSHALL	7.76	3.1	54.78	3.7	4018.	3.3
2010 MERCER	7.13	2.9	54.78	3.7	4018.	3.3
2011 PERRY	7.13	2.9	54.78	3.7	4018.	3.3
2012 PULASKI	8.21	3.3	54.78	3.7	4018.	3.3
2013 ST. CLAIR	7.37	2.9	54.78	3.7	4018.	3.3
2014 SCHUYLER	9.07	3.6	54.78	3.7	4018.	3.3
2015 SCOTT	8.21	3.3	54.78	3.7	4018.	3.3
2016 WASHINGTON	7.13	2.9	54.78	3.7	4018.	3.3
2017 WHITE	7.30	2.9	54.78	3.7	4018.	3.3

TABLE 188: ELECTRICITY PRICES FOR YEAR 2000 IN OTHER DRBES SMSA COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2021 CHAMPAIG	8.38	3.4	49.62	3.3	3759.	3.1
2022 HENRY	7.70	3.1	54.78	3.7	4018.	3.3
2023 MACON	7.79	3.1	68.14	4.5	3801.	3.2
2024 MADISON	7.23	2.9	54.78	3.7	4018.	3.3
2025 MCLEAN	7.54	3.0	54.78	3.7	4018.	3.3
2026 PEORIA	7.76	3.1	46.57	3.1	4331.	3.6
2027 SANGAMON	7.08	2.8	54.78	3.7	4018.	3.3
2028 TAZEWELL	7.85	3.1	54.78	3.7	4018.	3.3
2029 WOODFORD	8.24	3.3	54.78	3.7	4018.	3.3

TABLE 18C: ELECTRICITY PRICES FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2030 ADAMS	8.57	3.4	54.78	3.7	4018.	3.3
2031 ALEXANDER	5.49	2.2	54.78	3.7	4018.	3.3
2032 BOND	7.13	2.9	54.78	3.7	4018.	3.3
2033 BUREAU	7.65	3.1	54.78	3.7	4018.	3.3
2034 CALHOUN	8.24	3.3	54.78	3.7	4018.	3.3
2035 CHRISTIANA	9.42	3.8	54.78	3.7	4018.	3.3
2036 CLAY	8.15	3.3	54.78	3.7	4018.	3.3
2037 CLINTON	7.92	3.0	54.78	3.7	4018.	3.3
2038 COLES	9.35	3.7	54.78	3.7	4018.	3.3
2039 CRAWFORD	9.07	3.6	54.78	3.7	4018.	3.3
2040 CUMBERLAND	8.24	3.3	54.78	3.7	4018.	3.3
2041 DEWITT	7.13	2.9	54.78	3.7	4018.	3.3
2042 DOUGLASS	8.24	3.3	54.78	3.7	4018.	3.3
2043 EDGAR	9.07	3.6	54.78	3.7	4018.	3.3
2044 EDWARDS	8.24	3.3	54.78	3.7	4018.	3.3
2045 EFFINGHAM	8.24	3.3	54.78	3.7	4018.	3.3
2046 FAYETTE	8.24	3.3	54.78	3.7	4018.	3.3
2047 FORD	9.07	3.6	54.78	3.7	4018.	3.3
2048 FRANKLIN	9.07	3.6	54.78	3.7	4018.	3.3
2049 FULTON	8.63	3.5	54.78	3.7	4018.	3.3
2050 GALLATIN	8.24	3.3	54.78	3.7	4018.	3.3
2051 GRUNDY	8.50	3.4	54.78	3.7	4018.	3.3
2052 HARDIN	8.24	3.3	54.78	3.7	4018.	3.3
2053 JACKSON	9.32	3.7	54.78	3.7	4018.	3.3
2054 JASPER	8.34	3.3	54.78	3.7	4018.	3.3
2055 JEFFERSON	7.13	2.9	54.78	3.7	4018.	3.3
2056 JOHNSON	8.24	3.3	54.78	3.7	4018.	3.3
2057 KANKAKEE	8.50	3.4	54.78	3.7	4018.	3.3
2058 KNOX	7.19	2.9	54.78	3.7	4018.	3.3
2059 LASALLE	7.15	2.9	54.78	3.7	4018.	3.3
2060 LOGAN	8.25	3.3	54.78	3.7	4018.	3.3
2061 MARION	7.13	2.9	54.78	3.7	4018.	3.3
2062 MCDONOUGH	9.07	3.6	54.78	3.7	4018.	3.3
2063 MACOUPIN	7.13	2.9	54.78	3.7	4018.	3.3
2064 MASON	9.07	3.6	54.78	3.7	4018.	3.3
2065 MASSAC	7.46	3.0	54.78	3.7	4018.	3.3
2066 MENNARD	9.07	3.6	54.78	3.7	4018.	3.3
2067 MONROE	7.13	2.9	54.78	3.7	4018.	3.3
2068 MONTGOMERY	7.77	3.1	54.78	3.7	4018.	3.3
2069 MORGAN	7.13	2.9	54.78	3.7	4018.	3.3
2070 MOULTRIE	7.07	2.8	54.78	3.7	4018.	3.3
2071 PIATT	7.13	2.9	54.78	3.7	4018.	3.3
2072 PIKE	9.07	3.6	54.78	3.7	4018.	3.3
2073 POPE	8.24	3.3	54.78	3.7	4018.	3.3
2074 PUTNAM	8.24	3.3	54.78	3.7	4018.	3.3
2075 RANDOLPH	7.58	3.0	54.78	3.7	4018.	3.3
2076 RICHLAND	9.07	3.6	54.78	3.7	4018.	3.3
2077 SALINE	8.10	3.2	54.78	3.7	4018.	3.3
2078 SHELBY	9.07	3.6	54.78	3.7	4018.	3.3
2079 STARK	8.24	3.3	54.78	3.7	4018.	3.3

TABLE 18C: ELECTRICITY PRICES FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2080 UNION	9.07	3.6	54.78	3.7	4018.	3.3
2081 VERMILLI	7.77	3.1	54.78	3.7	4018.	3.3
2082 WABASH	9.03	3.6	54.78	3.7	4018.	3.3
2083 WARREN	7.13	2.9	54.78	3.7	4018.	3.3
2084 WAYNE	8.57	3.4	54.78	3.7	4018.	3.3
2085 WILLIAMS	9.24	3.7	54.78	3.7	4018.	3.3
2086 BOONE	17.02	6.8	54.78	3.7	4018.	3.3

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TABLE 18D: ELECTRICITY PRICES FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
2087 CARROLL	8.91	3.6	54.78	3.7	4018.	3.3
2088 COOK	8.72	3.5	69.66	4.6	4378.	3.6
2089 DEKALB	8.74	3.5	54.78	3.7	4018.	3.3
2090 DUPAGE	8.35	3.3	68.14	4.5	4301.	3.6
2091 LODAVIES	9.39	3.8	54.78	3.7	4018.	3.3
2092 KANE	8.50	3.4	68.14	4.5	4301.	3.6
2093 KENDALL	8.50	3.4	54.78	3.7	4018.	3.3
2094 LAKE	8.60	3.4	68.14	4.5	4018.	3.3
2095 MCHENRY	8.66	3.5	54.78	3.7	4018.	3.3
2096 OGLE	8.33	3.3	54.78	3.7	4018.	3.3
2097 ROCKTSLA	7.89	3.2	46.66	3.1	3902.	3.3
2098 LEE	8.50	3.4	54.78	3.7	4018.	3.3
2099 STEPHENS	8.50	3.4	54.78	3.7	4018.	3.3
2100 WHITESID	8.50	3.4	54.78	3.7	4018.	3.3
2101 WINNEBAG	7.73	3.1	54.78	3.7	4275.	3.6
2102 WILL	8.50	3.4	68.14	4.5	4301.	3.6

TABLE 21A: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2001 BROWN	13.	0.	31.	43.
2002 CASS	36.	5.	67.	107.
2003 CLARK	34.	0.	78.	113.
2004 GREEN	40.	4.	88.	131.
2005 HAMILTON	19.	2.	29.	50.
2018 HANCOCK	62.	1.	118.	181.
2019 HENDERSON	21.	0.	48.	69.
2006 IROQUOIS	89.	18.	181.	289.
2007 JERSEY	48.	1.	63.	112.
2008 LAWRENCE	47.	0.	55.	101.
2020 LIVINGSTON	123.	4.	214.	341.
2009 MARSHALL	37.	12.	64.	112.
2010 MERCER	45.	1.	98.	143.
2011 PERRY	47.	18.	56.	120.
2012 PULASKI	15.	2.	18.	35.
2013 ST.CLAIR	789.	244.	587.	1620.
2014 SCHUYLER	22.	0.	43.	65.
2015 SCOTT	15.	1.	32.	47.
2016 WASHINGTON	38.	2.	55.	96.
2017 WHITE	44.	4.	76.	123.
SUBTOTAL	1584.	319.	1997.	3899.

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TABLE 21B: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2021 CHAMPAIG	554.	59.	510.	1123.
2022 HENRY	157.	32.	260.	449.
2023 MACON	346.	286.	330.	962.
2024 MADISON	652.	500.	500.	1653.
2025 MCLEAN	283.	171.	348.	801.
2026 PEORIA	620.	287.	650.	1557.
2027 SANGAMON	544.	146.	544.	1234.
2028 TAZEWELL	307.	305.	235.	848.
2029 WOODFORD	85.	9.	134.	228.
SUBTOTAL	3548.	1794.	3512.	8855.

TABLE 21C: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2030 ADAMS	171.	123.	220.	513.
2031 ALEXANDE	23.	8.	39.	70.
2032 BOND	34.	12.	46.	92.
2033 BUREAU	107.	27.	177.	312.
2034 CALHOUN	13.	0.	23.	36.
2035 CHRISTIA	92.	19.	170.	280.
2036 CLAY	37.	7.	52.	96.
2037 CLINTON	66.	15.	90.	172.
2038 COLES	124.	51.	175.	350.
2039 CRAWFORD	49.	38.	55.	142.
2040 CUMBERLA	25.	2.	41.	69.
2041 DEWITT	50.	17.	79.	146.
2042 DOUGLASS	47.	39.	63.	149.
2043 EDGAR	56.	18.	95.	169.
2044 EDWARDS	7.	27.	10.	45.
2045 EFFINGHA	57.	13.	111.	181.
2046 FAYETTE	49.	7.	78.	134.
2047 FORD	46.	9.	98.	153.
2048 FRANKLIN	92.	7.	99.	198.
2049 FULTON	94.	58.	131.	283.
2050 GALLATIN	15.	4.	29.	48.
2051 GRUNDY	86.	23.	84.	192.
2052 HARDIN	11.	0.	15.	26.
2053 JACKSON	145.	19.	142.	306.
2054 JASPER	28.	2.	57.	86.
2055 JEFFERSO	81.	15.	101.	196.
2056 JOHNSON	18.	0.	23.	41.
2057 KANKAKEE	240.	177.	312.	729.
2058 KNOX	174.	88.	217.	478.
2059 LASALLE	286.	191.	380.	856.
2060 LOGAN	82.	53.	125.	259.
2061 MARION	100.	22.	127.	250.
2062 MCDONOUG	91.	22.	149.	262.
2063 MACOUPIN	117.	8.	170.	295.
2064 MASON	50.	4.	82.	136.
2065 MASSAC	32.	11.	35.	77.
2066 MENNARD	3.	71.	6.	79.
2067 MONROE	56.	1.	64.	121.
2068 MONTGOME	75.	14.	135.	223.
2069 MORGAN	94.	46.	145.	286.
2070 MOULTRIE	36.	9.	56.	101.
2071 PIATT	37.	53.	38.	128.
2072 PIKE	47.	5.	115.	167.
2073 POPE	8.	0.	10.	18.
2074 PUTNAM	13.	4.	21.	38.
2075 RANDOLPH	78.	27.	92.	198.
2076 RICHLAND	8.	88.	13.	109.
2077 SALINE	64.	3.	103.	171.
2078 SHELBY	57.	5.	100.	162.
2079 STARK	21.	3.	44.	67.

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TABLE 21C: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2080 UNION	41.	9.	43.	92.
2081 VERMILLI	262.	160.	279.	701.
2082 WABASH	33.	16.	40.	89.
2083 WARREN	55.	13.	122.	190.
2084 WAYNE	24.	43.	36.	103.
2085 WILLIAMS	102.	29.	132.	263.
2086 BOONE	60.	93.	63.	217.
SUBTOTAL	3966.	1826.	5556.	11349.
ORBES-TOTAL	9098.	3939.	11065.	24103.

TABLE 21D: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2087 CARROLL	54.	5.	110.	169.
2088 COOK	18748.	9781.	14336.	42865.
2089 DEK ALB	201.	98.	243.	542.
2090 DUPAGE	2248.	307.	1427.	3982.
2091 LODAVIES	57.	3.	93.	153.
2092 KANE	978.	162.	879.	2020.
2093 KENDALL	101.	0.	97.	197.
2094 LAKE	1818.	173.	1128.	3120.
2095 MCHENRY	367.	183.	304.	854.
2096 OGLE	117.	60.	176.	353.
2097 ROCKTSLA	494.	362.	399.	1256.
2098 LEE	96.	33.	146.	275.
2099 STEPHENS	125.	95.	169.	389.
2100 WHITESID	358.	65.	129.	551.
2101 WINNEBAG	769.	583.	524.	1876.
2102 WILL	704.	357.	617.	1678.
SUBTOTAL	27233.	12269.	20777.	60279.
STATE-TOTAL	36331.	16208.	31842.	84381.

TABLE 22A: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2001 BROWN	32.	0.	46.	78.
2002 CASS	89.	6.	101.	198.
2003 CLARK	86.	0.	118.	205.
2004 GREEN	99.	7.	132.	238.
2005 HAMILTON	47.	4.	44.	95.
2018 HANCOCK	156.	1.	178.	335.
2019 HENDERSON	53.	0.	72.	126.
2006 IROQUOIS	225.	30.	274.	529.
2007 JERSEY	121.	2.	95.	218.
2008 LAWRENCE	117.	0.	82.	200.
2020 LIVINGSTON	310.	7.	324.	640.
2009 MARSHALL	93.	19.	97.	208.
2010 MERCER	113.	1.	148.	262.
2011 PERRY	117.	29.	85.	231.
2012 PULASKI	39.	3.	28.	69.
2013 ST. CLAIR	1984.	398.	888.	3270.
2014 SCHUYLER	56.	0.	64.	120.
2015 SCOTT	38.	1.	48.	87.
2016 WASHINGT	97.	4.	83.	184.
2017 WHITE	109.	7.	114.	231.
SUBTOTAL	3981.	520.	3022.	7523.

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TABLE 22B: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN OTHER DBES SMSA COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2021 CHAMPAIG	1391.	97.	772.	2260.
2022 HENRY	395.	52.	394.	840.
2023 MACON	870.	466.	500.	1837.
2024 MADISON	1640.	817.	757.	3214.
2025 MCLEAN	711.	279.	526.	1515.
2026 PEORIA	1558.	468.	984.	3010.
2027 SANGAMON	1367.	238.	824.	2429.
2028 TAZEWELL	772.	499.	356.	1627.
2029 WOODFORD	215.	14.	202.	431.
SUBTOTAL	8919.	2929.	5314.	17162.

TABLE 22C: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2030 ADAMS	429.	200.	332.	961.
2031 ALEXANDER	57.	13.	59.	129.
2032 BOND	85.	19.	70.	174.
2033 BUREAU	270.	45.	268.	582.
2034 CALHOUN	33.	0.	34.	68.
2035 CHRISTIANA	231.	31.	257.	518.
2036 CLAY	93.	11.	78.	182.
2037 CLINTON	167.	25.	136.	329.
2038 COLES	312.	83.	265.	660.
2039 CRAWFORD	123.	62.	83.	268.
2040 CUMBERLAND	64.	4.	62.	130.
2041 DEWITT	127.	27.	119.	273.
2042 DOUGLASS	117.	64.	96.	276.
2043 EDGAR	140.	30.	144.	313.
2044 EDWARDS	17.	45.	16.	78.
2045 EFFINGHAM	144.	21.	168.	333.
2046 FAYETTE	122.	12.	119.	252.
2047 FORD	116.	15.	148.	279.
2048 FRANKLIN	230.	11.	150.	391.
2049 FULTON	237.	95.	198.	530.
2050 GALLATIN	39.	6.	43.	88.
2051 GRUNDY	216.	37.	126.	380.
2052 HARDIN	27.	0.	23.	50.
2053 JACKSON	365.	31.	215.	611.
2054 JASPER	71.	3.	86.	159.
2055 JEFFERSON	202.	24.	152.	379.
2056 JOHNSON	45.	0.	34.	79.
2057 KANKAKEE	603.	288.	472.	1364.
2058 KNOX	437.	144.	328.	908.
2059 LASALLE	719.	311.	575.	1605.
2060 LOGAN	206.	86.	189.	481.
2061 MARION	252.	36.	193.	481.
2062 MCDONOUGH	228.	36.	225.	490.
2063 MACOUPIN	293.	14.	258.	564.
2064 MASON	126.	7.	124.	256.
2065 MASSAC	80.	17.	53.	150.
2066 MENNARD	7.	116.	8.	131.
2067 MONROE	140.	1.	97.	238.
2068 MONTGOMERY	189.	22.	204.	414.
2069 MORGAN	236.	75.	220.	532.
2070 MOULTRIE	91.	15.	85.	191.
2071 PIATT	93.	87.	57.	238.
2072 PIKE	117.	8.	174.	300.
2073 POPE	20.	0.	15.	35.
2074 PUTNAM	32.	7.	31.	70.
2075 RANDOLPH	197.	44.	140.	381.
2076 RICHLAND	20.	143.	20.	183.
2077 SALINE	161.	5.	156.	323.
2078 SHELBY	143.	9.	151.	303.
2079 STARK	52.	4.	67.	123.

**TABLE 22C: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS**

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
	1,000MWH	1,000MWH	1,000MWH	1,000MWH
2080 UNION	102.	14.	65.	181.
2081 VERMILLI	659.	261.	423.	1343.
2082 WABASH	82.	26.	61.	169.
2083 WARREN	139.	21.	184.	344.
2084 WAYNE	61.	70.	54.	185.
2085 WILLIAMS	256.	47.	200.	503.
2086 BOONE	151.	152.	96.	399.
SUBTOTAL	9969.	2981.	8408.	21358.
ORBES-TOTAL	22869.	6430.	16743.	46043.

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TABLE 22D: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
2087 CARROLL	135.	8.	167.	310.
2088 COOK	47125.	15967.	21692.	84784.
2089 DEKALB	504.	160.	368.	1033.
2090 DUPAGE	5650.	501.	2159.	8310.
2091 LODAVIES	143.	5.	141.	289.
2092 KANE	2459.	265.	1330.	4054.
2093 KENDALL	253.	0.	146.	399.
2094 LAKE	4570.	283.	1707.	6560.
2095 MCHENRY	922.	299.	460.	1681.
2096 OGLE	293.	97.	267.	657.
2097 ROCKTSLA	1242.	591.	604.	2438.
2098 LEE	240.	54.	222.	515.
2099 STEPHENS	314.	155.	256.	725.
2100 WHITESID	899.	106.	194.	1200.
2101 WINNEBAG	1932.	952.	793.	3677.
2102 WILL	1770.	582.	934.	3287.
SUBTOTAL	68452.	20028.	31439.	119919.
STATE-TOTAL	91321.	26458.	48182.	165962.

TABLE 23A: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2001 BROWN	102.	3.	413.	519.
2002 CASS	314.	55.	984.	1353.
2003 CLARK	289.	0.	1107.	1396.
2004 GREEN	339.	43.	1255.	1636.
2005 HAMILTON	162.	26.	426.	614.
2018 HANCOCK	528.	9.	1676.	2213.
2019 HENDERSON	175.	0.	658.	833.
2006 IROQUOIS	803.	207.	2720.	3730.
2007 JERSEY	405.	15.	887.	1307.
2008 LAWRENCE	388.	0.	758.	1146.
2020 LIVINGSTON	1121.	46.	3258.	4425.
2009 MARSHALL	351.	137.	1018.	1506.
2010 MERCER	371.	8.	1352.	1730.
2011 PERRY	479.	224.	965.	1668.
2012 PULASKI	139.	19.	276.	435.
2013 ST.CLAIR	8268.	3183.	10286.	21736.
2014 SCHUYLER	183.	0.	589.	772.
2015 SCOTT	126.	6.	446.	578.
2016 WASHINGT	332.	24.	797.	1153.
2017 WHITE	379.	45.	1101.	1525.
SUBTOTAL	15255.	4050.	30971.	50276.

ILLINOIS

TABLE 23B: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2021 CHAMPAIG	5020.	671.	7745.	13437.
2022 HENRY	1439.	363.	3992.	5794.
2023 MACON	4494.	4626.	7179.	16299.
2024 MADISON	12501.	11963.	16039.	40503.
2025 MCLEAN	2845.	2143.	5853.	10841.
2026 PEORIA	6776.	3911.	11904.	22591.
2027 SANGAMON	5401.	1806.	9048.	16255.
2028 TAZEWELL	5306.	6581.	6795.	18682.
2029 WOODFORD	761.	98.	1995.	2853.
SUBTOTAL	44544.	32162.	70549.	147255.

TABLE 23C: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBS COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2030 ADAMS	2015.	1806.	4344.	8165.
2031 ALEXANDE	219.	99.	635.	953.
2032 BOND	338.	144.	780.	1262.
2033 BUREAU	1005.	319.	2777.	4100.
2034 CALHOUN	112.	1.	320.	433.
2035 CHRISTIA	854.	221.	2643.	3718.
2036 CLAY	344.	82.	803.	1229.
2037 CLINTON	630.	183.	1432.	2246.
2038 COLES	1275.	649.	3009.	4933.
2039 CRAWFORD	604.	583.	1138.	2324.
2040 CUMBERLA	113.	13.	308.	435.
2041 DEWITT	490.	201.	1280.	1971.
2042 DOUGLASS	572.	596.	1302.	2470.
2043 EDGAR	537.	219.	1531.	2288.
2044 EDWARDS	0.	0.	0.	1.
2045 EFFINGHA	525.	149.	1698.	2372.
2046 FAYETTE	436.	80.	1176.	1692.
2047 FORD	416.	105.	1469.	1989.
2048 FRANKLIN	814.	76.	1478.	2369.
2049 FULTON	832.	639.	1933.	3403.
2050 GALLATIN	143.	42.	444.	629.
2051 GRUNDY	857.	282.	1394.	2532.
2052 HARDIN	88.	0.	214.	302.
2053 JACKSON	1255.	206.	2056.	3518.
2054 JASPER	235.	18.	794.	1047.
2055 JEFFERSO	750.	174.	1570.	2495.
2056 JOHNSON	148.	0.	312.	460.
2057 KANKAKEE	2854.	2622.	6209.	11685.
2058 KNOX	1890.	1193.	3943.	7026.
2059 LASALLE	3296.	2742.	7327.	13365.
2060 LOGAN	915.	733.	2325.	3973.
2061 MARION	946.	262.	2018.	3226.
2062 MCDONOUG	847.	260.	2329.	3437.
2063 MACOUPIN	1006.	89.	2462.	3558.
2064 MASON	431.	43.	1178.	1653.
2065 MASSAC	321.	134.	596.	1051.
2066 MENNARD	29.	927.	97.	1053.
2067 MONROE	468.	9.	905.	1382.
2068 MONTGOME	674.	153.	2024.	2851.
2069 MORGAN	987.	605.	2558.	4149.
2070 MOULTRIE	341.	106.	891.	1338.
2071 PIATT	340.	613.	582.	1535.
2072 PIKE	394.	53.	1634.	2080.
2073 POPE	66.	0.	131.	197.
2074 PUTNAM	2380.	991.	6348.	9718.
2075 RANDOLPH	791.	339.	1566.	2696.
2076 RICHLAND	93.	1310.	270.	1673.
2077 SALINE	545.	34.	1473.	2052.
2078 SHELBY	491.	59.	1447.	1997.
2079 STARK	178.	28.	637.	844.

TABLE 23C: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2080 UNION	386.	104.	682.	1172.
2081 VERMILLI	3058.	2322.	5450.	10830.
2082 WABASH	348.	209.	719.	1276.
2083 WARREN	519.	150.	1906.	2575.
2084 WAYNE	227.	499.	556.	1282.
2085 WILLIAMS	1041.	367.	2265.	3674.
2086 BOONE	965.	1873.	1710.	4547.
SUBTOTAL	42435.	25719.	99078.	167232.
ORBES-TOTAL	102232.	61931.	200596.	364762.

TABLE 23D: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2087 CARROLL	461.	54.	1581.	2095.
2088 COOK	236285.	153823.	302457.	692566.
2089 DEKALB	2178.	1330.	4421.	7929.
2090 DUPAGE	21253.	3621.	22581.	47455.
2091 LODAVIES	499.	35.	1363.	1897.
2092 KANE	10983.	2274.	16512.	29769.
2093 KENDALL	844.	0.	1357.	2201.
2094 LAKE	24224.	2884.	25167.	52276.
2095 MCHENRY	4207.	2625.	5833.	12665.
2096 OGLE	1234.	788.	3125.	5147.
2097 ROCKTSLA	7904.	7228.	10687.	25819.
2098 LEE	1492.	638.	3827.	5957.
2099 STEPHENS	1484.	1410.	3365.	6259.
2100 WHITESID	3772.	858.	2269.	6900.
2101 WINNEBAG	12908.	12223.	14726.	39857.
2102 WILL	16379.	10349.	24033.	50761.
SUBTOTAL	346106.	200141.	443304.	989552.
STATE-TOTAL	448339.	262073.	643900.	1354305.

TABLE 24A: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2001 BROWN	92.	4.	632.	728.
2002 CASS	283.	82.	1503.	1868.
2003 CLARK	261.	0.	1691.	1951.
2004 GREEN	305.	63.	1918.	2286.
2005 HAMILTON	146.	38.	650.	835.
2018 HANCOCK	476.	13.	2560.	3050.
2019 HENDERSON	158.	0.	1006.	1164.
2006 IROQUOIS	725.	306.	4156.	5187.
2007 JERSEY	365.	23.	1355.	1743.
2008 LAWRENCE	350.	0.	1158.	1507.
2020 LIVINGSTON	1011.	68.	4977.	6057.
2009 MARSHALL	316.	203.	1556.	2076.
2010 MERCER	334.	11.	2066.	2412.
2011 PERRY	432.	333.	1474.	2239.
2012 PULASKI	126.	28.	422.	577.
2013 ST.CLAIR	7456.	4716.	15716.	27888.
2014 SCHUYLER	165.	0.	900.	1065.
2015 SCOTT	114.	9.	682.	804.
2016 WASHINGT	300.	35.	1218.	1553.
2017 WHITE	342.	67.	1682.	2091.
SUBTOTAL	13757.	6001.	47322.	67080.

TABLE 24B: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES.
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2021 CHAMPAIG	4528.	994.	11834.	17356.
2022 HENRY	1298.	538.	6099.	7935.
2023 MACON	4053.	6854.	10969.	21876.
2024 MADISON	11274.	17726.	24507.	53507.
2025 MCLEAN	2566.	3176.	8943.	14685.
2026 PEORIA	6111.	5795.	18188.	30094.
2027 SANGAMON	4871.	2676.	13825.	21372.
2028 TAZEWELL	4785.	9752.	10382.	24919.
2029 WOODFORD	686.	144.	3048.	3879.
SUBTOTAL	40171.	47655.	107795.	195622.

TABLE 24C: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2030 ADAMS	1817.	2676.	6637.	11130.
2031 ALEXANDE	198.	147.	970.	1315.
2032 BOND	305.	214.	1191.	1710.
2033 BUREAU	906.	472.	4243.	5621.
2034 CALHOUN	101.	1.	489.	591.
2035 CHRISTIA	770.	327.	4038.	5135.
2036 CLAY	311.	121.	1226.	1658.
2037 CLINTON	568.	272.	2188.	3029.
2038 COLES	1150.	962.	4598.	6710.
2039 CRAWFORD	544.	863.	1738.	3146.
2040 CUMBERLA	102.	19.	471.	593.
2041 DEWITT	442.	298.	1956.	2696.
2042 DOUGLASS	516.	883.	1990.	3389.
2043 EDGAR	485.	325.	2340.	3149.
2044 EDWARDS	0.	0.	0.	1.
2045 EFFINGHA	473.	220.	2595.	3289.
2046 FAYETTE	393.	118.	1797.	2309.
2047 FORD	375.	155.	2244.	2774.
2048 FRANKLIN	734.	113.	2259.	3106.
2049 FULTON	750.	946.	2954.	4650.
2050 GALLATIN	129.	62.	679.	870.
2051 GRUNDY	773.	417.	2130.	3320.
2052 HARDIN	80.	0.	327.	407.
2053 JACKSON	1132.	305.	3141.	4579.
2054 JASPER	212.	26.	1214.	1452.
2055 JEFFERSO	677.	258.	2399.	3334.
2056 JOHNSON	133.	0.	477.	610.
2057 KANKAKEE	2574.	3885.	9488.	15946.
2058 KNOX	1704.	1768.	6025.	9497.
2059 LASALLE	2972.	4062.	11196.	18230.
2060 LOGAN	825.	1086.	3552.	5463.
2061 MARION	853.	389.	3083.	4325.
2062 MCDONOGH	764.	385.	3559.	4708.
2063 MACOUPIN	907.	132.	3762.	4802.
2064 MASON	389.	64.	1801.	2254.
2065 MASSAC	290.	199.	911.	1399.
2066 MENNARD	26.	1374.	148.	1548.
2067 MONROE	422.	14.	1383.	1819.
2068 MONTGOME	608.	226.	3093.	3927.
2069 MORGAN	890.	896.	3908.	5694.
2070 MOULTRIE	307.	158.	1361.	1826.
2071 PIATT	307.	909.	889.	2105.
2072 PIKE	355.	78.	2496.	2930.
2073 POPE	60.	0.	200.	259.
2074 PUTNAM	2146.	1468.	9699.	13313.
2075 RANDOLPH	714.	502.	2392.	3608.
2076 RICHLAND	84.	1942.	412.	2438.
2077 SALINE	492.	51.	2250.	2793.
2078 SHELBY	443.	88.	2211.	2741.
2079 STARK	161.	42.	974.	1177.

TABLE 24C: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2080 UNION	348.	155.	1042.	1545.
2081 VERMILLI	2757.	3441.	8328.	14526.
2082 WABASH	314.	310.	1098.	1722.
2083 WARREN	468.	223.	2912.	3602.
2084 WAYNE	205.	739.	850.	1794.
2085 WILLIAMS	939.	544.	3462.	4945.
2086 BOONE	870.	2775.	2613.	6257.
SUBTOTAL	38269.	38110.	151386.	227765.
ORBES-TOTAL	92196.	91766.	306502.	490466.

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TABLE 24D: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF ILLINOIS IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
2087 CARROLL	415.	80.	2416.	2911.
2088 COOK	213088.	227927.	462140.	903155.
2089 DEKALB	1964.	1970.	6756.	10690.
2090 DUPAGE	19166.	5366.	34503.	59035.
2091 LODAVIES	450.	52.	2083.	2585.
2092 KANE	9904.	3370.	25229.	38504.
2093 KENDALL	761.	0.	2073.	2834.
2094 LAKE	21846.	4274.	38454.	64574.
2095 MCHENRY	3794.	3890.	8913.	16597.
2096 OGLE	1113.	1168.	4775.	7055.
2097 ROCKTSLA	7128.	10711.	16329.	34168.
2098 LEE	1346.	946.	5847.	8139.
2099 STEPHENS	1338.	2090.	5142.	8570.
2100 WHITESID	3402.	1272.	3468.	8141.
2101 WINNEBAG	11641.	18111.	22500.	52252.
2102 WILL	14771.	15334.	36721.	66826.
SUBTOTAL	312128.	296559.	677347.	1286031.
STATE-TOTAL	404324.	388325.	983849.	1776493.

APPENDIX C

INDIANA

Sources for Tables

No. III-B-

- 1 U.S. Federal Power Commission, Typical Electric Bills, 1974.
3. Drysdale, Frank R., and Calef, Charles E., The Energetics of the United States of America: An Atlas, (Brookhaven National Laboratory, 1976). Residential, commercial and industrial consumption was determined with the help of use factors as given in Eqs. (1), (2), and (3) in the text and related discussion.
- 4 Ibid.
- 5 U.S. Bureau of the Census, County and City Data Book, 1972 (U.S. Government Printing Office, 1973).
- 17 Growth rates for 1975-85 from Table III-B-16 applied to prices in Table III-B-1. Prices are in 1974 dollars.
- 18 Growth rates for 1975-2000 from Table III-B-16 applied to prices in Table III-B-1. Prices are in 1974 dollars.
- 21 Growth rates for 1975-85 from Table III-B-16 applied to quantities in Table III-B-3.
- 22 Growth rates for 1975-2000 from Table III-B-16 applied to quantities in Table III-B-3.
- 23 Growth rates for 1975-85 from Table III-B-16 applied to quantities in Table III-B-4.
- 24 Growth rates in 1975-2000 from Table III-B-16 applied to quantities in Table III-B-4.

TABLE 1B: ELECTRICITY PRICES FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3026 ALLEN	8.42	3.4	51.44	3.4	2096.	1.7
3027 BOONE	6.75	2.7	55.71	3.7	2039.	1.7
3028 CLAY	10.70	4.3	55.71	3.7	2039.	1.7
3050 DELAWARE	8.29	3.3	53.99	3.6	1977.	1.6
3029 FLOYD	10.70	4.3	55.71	3.7	2039.	1.7
3030 HAMILTON	10.70	4.3	55.71	3.7	2039.	1.7
3031 HANCOCK	6.68	2.7	55.71	3.7	2039.	1.7
3032 HENDRICK	10.70	4.3	55.71	3.7	2039.	1.7
3033 JOHNSON	9.68	3.0	55.71	3.7	2039.	1.7
3034 MADISON	8.56	3.4	55.71	3.7	2039.	1.7
3035 MARION	7.93	3.2	55.71	3.7	2039.	1.7
3036 MARSHALL	7.63	3.1	55.71	3.7	2039.	1.7
3037 MORGAN	9.31	3.7	55.71	3.7	2039.	1.7
3038 SHELBY	10.70	4.3	55.71	3.7	2039.	1.7
3039 VANDERBU	8.62	3.4	55.71	3.7	2039.	1.7
3040 VIGO	10.70	4.3	55.71	3.7	2039.	1.7

TABLE IC: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL			
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3041 ADAMS	8.29	3.3	55.71	3.7	2039.	1.7
3042 BARTHOLOMAE	8.68	3.5	55.71	3.7	2039.	1.7
3043 BENTON	8.71	3.5	55.71	3.7	2039.	1.7
3044 BLACKFORD	8.29	3.3	55.71	3.7	2039.	1.7
3045 BROWN	8.62	3.4	55.71	3.7	2039.	1.7
3046 CARROLL	10.70	4.3	55.71	3.7	2039.	1.7
3047 CASS	7.10	2.8	55.71	3.7	2039.	1.7
3048 CLINTON	7.40	3.0	55.71	3.7	2039.	1.7
3049 DECAEUR	10.70	4.3	55.71	3.7	2039.	1.7
3051 FAYETTE	10.70	4.3	55.71	3.7	2039.	1.7
3052 FRANKLIN	10.70	4.3	55.71	3.7	2039.	1.7
3053 FULTON	10.70	4.3	55.71	3.7	2039.	1.7
3054 GRANT	8.73	3.5	55.71	3.7	2039.	1.7
3055 HENRY	10.70	4.3	55.71	3.7	2039.	1.7
3056 HOWARD	10.70	4.3	55.71	3.7	2039.	1.7
3057 HUNTINGT	7.25	2.7	55.71	3.7	2039.	1.7
3058 JASPER	6.70	2.7	55.71	3.7	2039.	1.7
3059 JAY	8.29	3.3	55.71	3.7	2039.	1.7
3060 JENNINGS	10.70	4.3	55.71	3.7	2039.	1.7
3061 KOSCIUSK	8.71	3.5	55.71	3.7	2039.	1.7
3062 MIAMI	7.15	2.9	55.71	3.7	2039.	1.7
3063 MONROE	8.62	3.4	55.71	3.7	2039.	1.7
3064 MONTGOME	6.92	2.8	55.71	3.7	2039.	1.7
3065 NOBLE	8.29	3.3	55.71	3.7	2039.	1.7
3066 ORANGE	6.70	2.7	55.71	3.7	2039.	1.7
3067 OWEN	10.70	4.3	55.71	3.7	2039.	1.7
3068 PARKE	8.75	3.5	55.71	3.7	2039.	1.7
3069 PULASKI	8.62	3.4	55.71	3.7	2039.	1.7
3070 PUTNAM	10.70	4.3	55.71	3.7	2039.	1.7
3071 RANDOLPH	8.29	3.3	55.71	3.7	2039.	1.7
3072 RIPLEY	10.70	4.3	55.71	3.7	2039.	1.7
3073 RUSH	10.70	4.3	55.71	3.7	2039.	1.7
3074 SCOTT	8.70	3.5	55.71	3.7	2039.	1.7
3075 STARKE	8.71	3.5	55.71	3.7	2039.	1.7
3076 TIPTON	8.17	3.4	55.71	3.7	2039.	1.7
3077 UNION	8.62	3.4	55.71	3.7	2039.	1.7
3078 WABASH	10.70	4.3	55.71	3.7	2039.	1.7
3079 WASHINGT	10.70	4.3	55.71	3.7	2039.	1.7
3080 WAYNE	7.75	2.8	55.71	3.7	2039.	1.7
3081 WELLS	6.90	2.5	55.71	3.7	2039.	1.7
3082 WHITE	8.71	3.5	55.71	3.7	2039.	1.7
3083 WHITLEY	6.85	2.7	55.71	3.7	2039.	1.7

TABLE 1D: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3084 DEKALB	7.03	2.8	55.71	3.7	2039.	1.7
3085 ELKHART	8.57	3.4	55.71	3.7	2039.	1.7
3086 LAGRANGE	8.62	3.4	55.71	3.7	2039.	1.7
3087 LAKE	8.71	3.5	74.96	5.0	1940.	1.6
3088 LAPORTE	8.71	3.5	55.71	3.7	2039.	1.7
3089 NEWTON	8.62	3.4	55.71	3.7	2039.	1.7
3090 PORTER	8.71	3.4	55.71	3.7	2039.	1.7
3091 STEUBEN	8.71	3.5	55.71	3.7	2039.	1.7
3092 ST JOSEPH	8.02	3.2	53.99	3.6	1997.	1.7

**TABLE 3A: ELECTRICAL CONSUMPTION FOR YEAR 1971 IN UNITS OF 1,000 MWH
IN THE STATE OF INDIANA**

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
3001 CLARK	266.	219.	293.	777.	0.
3002 CRAWFORD	12.	1.	14.	26.	0.
3003 DAVIESS	46.	10.	87.	143.	5347.
3004 DEARBORN	104.	131.	108.	255.	0.
3005 DUBOIS	68.	39.	148.	131.	0.
3006 FOUNTAIN	36.	15.	80.	170.	5633.
3007 GIBSON	57.	14.	99.	124.	0.
3008 GREENE	48.	6.	70.	90.	0.
3009 HARRISON	37.	5.	48.	243.	0.
3010 JACKSON	77.	29.	137.	161.	8459.
3011 JEFFERSON	56.	18.	86.	238.	0.
3012 KNOX	72.	17.	150.	253.	0.
3013 LAWRENCE	94.	38.	121.	73.	0.
3014 MARTIN	24.	13.	36.	14.	0.
3015 OHIO	7.	0.	7.	145.	0.
3016 PERRY	50.	37.	57.	47.	6394.
3017 PIKE	18.	0.	29.	151.	0.
3018 POSEY	45.	21.	85.	66.	0.
3019 SPENCER	24.	1.	41.	86.	2119.
3020 SULLIVAN	33.	3.	50.	21.	359.
3021 SWITZERL	10.	0.	11.	831.	0.
3022 TIPPICAN	303.	124.	405.	91.	840.
3023 VERMILLI	37.	9.	46.	35.	0.
3024 WARREN	12.	0.	23.	96.	962.
3025 WARRICK	50.	0.	46.		
SUBTOTAL	1585.	750.	2275.	4610.	30113.

TABLE 3B: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN OTHER DRBES SMSA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
3026 ALLEN	930.	494.	1122.	2547.	0.
3027 BOONE	76.	18.	106.	200.	0.
3028 CLAY	43.	4.	60.	106.	0.
3050 DELAWARE	391.	215.	456.	1062.	0.
3029 FLOYD	149.	43.	137.	329.	3654.
3030 HAMILTON	153.	24.	134.	310.	249.
3031 HANCOCK	78.	5.	86.	169.	0.
3032 HENDRICK	123.	2.	102.	227.	0.
3033 JOHNSON	136.	25.	192.	352.	0.
3034 MADISON	517.	423.	591.	1531.	0.
3035 MARION	2727.	1320.	3183.	7230.	2179.
3036 MARSHALL	82.	24.	122.	228.	0.
3037 MORGAN	90.	6.	89.	185.	1865.
3038 SHELBY	90.	30.	134.	254.	0.
3039 VANDERBU	285.	24.	405.	714.	581.
3040 VIGO	268.	104.	466.	838.	5941.
SUBTOTAL	6137.	2762.	7383.	16282.	14469.

TABLE 3C: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
3041 ADAMS	70.	34.	119.	223.	0.
3042 BARTHOLDI	218.	187.	263.	668.	0.
3043 BENTON	17.	1.	54.	72.	0.
3044 BLACKFORD	52.	51.	70.	173.	0.
3045 BROWN	16.	0.	10.	26.	0.
3046 CARROLL	32.	4.	68.	105.	0.
3047 CASS	92.	29.	150.	272.	0.
3048 CLINTON	64.	18.	116.	199.	0.
3049 DECATEUR	44.	18.	99.	161.	0.
3051 FAYETTE	83.	65.	107.	256.	0.
3052 FRANKLIN	27.	3.	39.	70.	0.
3053 FULTON	38.	12.	64.	114.	0.
3054 GRANT	280.	252.	380.	912.	0.
3055 HENRY	145.	66.	184.	395.	0.
3056 HOWARD	308.	291.	427.	1026.	0.
3057 HUNTINGTON	93.	40.	130.	264.	0.
3058 JASPER	30.	4.	85.	119.	0.
3059 JAY	59.	32.	92.	183.	0.
3060 JENNINGS	34.	5.	37.	76.	0.
3061 KOSCIUSKO	136.	88.	245.	470.	0.
3062 MIAMI	79.	18.	107.	203.	0.
3063 MONROE	263.	172.	294.	729.	0.
3064 MONTGOMERY	86.	44.	160.	290.	0.
3065 NOBLE	77.	33.	116.	226.	0.
3066 ORANGE	36.	21.	59.	116.	0.
3067 OWEN	20.	1.	24.	45.	0.
3068 PARKE	20.	1.	39.	60.	0.
3069 PULASKI	19.	4.	58.	81.	0.
3070 PUTNAM	61.	19.	88.	168.	0.
3071 RANDOLPH	76.	40.	118.	234.	0.
3072 RIPLEY	45.	22.	77.	144.	0.
3073 RUSH	33.	6.	77.	116.	0.
3074 SCOTT	27.	0.	32.	59.	0.
3075 STARKE	30.	4.	56.	90.	0.
3076 TIPTON	34.	6.	57.	97.	0.
3077 UNION	12.	1.	23.	36.	0.
3078 WABASH	103.	68.	163.	334.	0.
3079 WASHINGTON	36.	10.	60.	106.	0.
3080 WAYNE	240.	157.	352.	749.	0.
3081 WELLS	77.	52.	106.	235.	0.
3082 WHITE	32.	0.	76.	108.	0.
3083 WHITLEY	55.	21.	90.	166.	0.
SUBTOTAL	3303.	1902.	4971.	10176.	0.
ORBES-TOTAL	11025.	5413.	14630.	31068.	44582.

TABLE 3D: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
3084 DEKALB	84.	41.	99.	224.	0.
3085 ELKHART	522.	456.	612.	1590.	0.
3086 LAGRANGE	38.	10.	71.	119.	0.
3087 LAKE	1989.	1589.	2180.	5758.	6490.
3088 LAPORTE	328.	177.	426.	931.	688.
3089 NEWTON	18.	3.	53.	74.	0.
3090 PORTER	277.	82.	221.	581.	2957.
3091 STEUBEN	45.	16.	87.	147.	0.
3092 STJOSEPH	736.	318.	885.	1939.	1714.
SUBTOTAL	4037.	2692.	4634.	11363.	12049.
STATE-TOTAL	15062.	8105.	19264.	42431.	56631.

TABLE 4A: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3001 CLARK	2801.	2282.	4045.	9128.
3002 CRAWFORD	177.	8.	265.	449.
3003 DAVIESS	618.	130.	1512.	2260.
3004 DEARBORN	1019.	1269.	1391.	3678.
3005 DUBOIS	783.	449.	2242.	3474.
3006 FOUNTAIN	444.	181.	1287.	1911.
3007 GIBSON	744.	177.	1697.	2618.
3008 GREENE	676.	79.	1289.	2045.
3009 HARRISON	505.	73.	2193.	3485.
3010 JACKSON	937.	355.	1400.	2328.
3011 JEFFERSON	700.	227.	2597.	3763.
3012 KNOX	949.	217.	1897.	3472.
3013 LAWRENCE	1121.	454.	539.	961.
3014 MARTIN	275.	148.	134.	246.
3015 OHIO	110.	2.	802.	1738.
3016 PERRY	540.	396.	587.	863.
3017 PIKE	274.	2.	1314.	2100.
3018 POSEY	537.	249.	789.	1158.
3019 SPENCER	352.	16.	931.	1452.
3020 SULLIVAN	479.	41.	229.	384.
3021 SWITZERL	155.	0.	6343.	11438.
3022 TIPPICAN	3629.	1466.	769.	1352.
3023 VERMILLI	471.	112.	459.	648.
3024 WARREN	189.	0.	937.	1708.
3025 WARRICK	771.	0.		
SUBTOTAL	19256.	8333.	36507.	64097.

TABLE 48: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3026 ALLEN	10626.	5588.	16776.	32990.
3027 BOONE	981.	237.	1797.	3015.
3028 CLAY	612.	51.	1117.	1780.
3050 DELAWARE	4429.	2417.	6759.	13605.
3029 FLOYD	1874.	533.	2250.	4658.
3030 HAMILTON	2079.	317.	2378.	4774.
3031 HANCOCK	1134.	78.	1634.	2846.
3032 HENDRICK	1887.	30.	2047.	3964.
3033 JOHNSON	1821.	326.	3373.	5520.
3034 MADISON	5458.	4421.	8173.	18051.
3035 MARION	31603.	15142.	48285.	95030.
3036 MARSHALL	1048.	297.	2028.	3373.
3037 MORGAN	1312.	89.	1694.	3096.
3038 SHELBY	1126.	367.	2181.	3673.
3039 VANDERBU	4423.	376.	8217.	13016.
3040 VIGO	3271.	1258.	7435.	11964.
SUBTOTAL	73683.	31527.	116145.	221355.

TABLE 4C: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3041 ADAMS	817.	389.	1827.	3034.
3042 BARTHOLOMAEUS	2268.	1931.	3595.	7794.
3043 BENTON	255.	12.	1041.	1309.
3044 BLACKFORD	537.	519.	939.	1996.
3045 BROWN	261.	1.	200.	462.
3046 CARROLL	454.	61.	1255.	1770.
3047 CASS	1157.	365.	2459.	3981.
3048 CLINTON	828.	230.	1957.	3015.
3049 DECAUVEUR	545.	220.	1588.	2352.
3051 FAYETTE	889.	691.	1498.	3079.
3052 FRANKLIN	384.	43.	720.	1147.
3053 FULTON	468.	152.	1048.	1668.
3054 GRANT	2918.	2602.	5191.	10711.
3055 HENRY	1700.	770.	2825.	5295.
3056 HOWARD	3180.	2975.	5762.	11917.
3057 HUNTINGTON	1109.	474.	2028.	3611.
3058 JASPER	426.	54.	1585.	2066.
3059 JAY	684.	361.	1381.	2426.
3060 JENNINGS	467.	67.	672.	1206.
3061 KOSCIUSKO	1529.	981.	3602.	6112.
3062 MIAMI	1033.	227.	1827.	3087.
3063 MONROE	2890.	1869.	4233.	8992.
3064 MONTGOMERY	1008.	506.	2462.	3976.
3065 NOBLE	918.	390.	1813.	3121.
3066 ORANGE	413.	236.	871.	1521.
3067 OWEN	291.	20.	456.	767.
3068 PARKE	301.	9.	775.	1085.
3069 PULASKI	261.	54.	1029.	1344.
3070 PUTNAM	763.	241.	1435.	2439.
3071 RANDOLPH	872.	460.	1778.	3109.
3072 RIPLEY	533.	255.	1176.	1965.
3073 RUSH	450.	85.	1368.	1903.
3074 SCOTT	411.	0.	647.	1058.
3075 STARKE	422.	56.	1007.	1485.
3076 TIPTON	459.	85.	996.	1541.
3077 UNION	170.	17.	436.	623.
3078 WABASH	1143.	747.	2376.	4266.
3079 WASHINGTON	461.	122.	1017.	1600.
3080 WAYNE	2668.	1719.	5112.	9500.
3081 WELLS	843.	569.	1513.	2925.
3082 WHITE	497.	0.	1524.	2021.
3083 WHITLEY	678.	250.	1443.	2371.
SUBTOTAL	38364.	20816.	76470.	135650.
OTHER COUNTIES	131302.	60676.	229120.	421102.

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TABLE 4D: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3084 DEKALB	966.	471.	1501.	2938.
3085 ELKHART	5451.	4714.	9374.	18539.
3086 LAGRANGE	500.	124.	1209.	1833.
3087 LAKE	21729.	17180.	31159.	70068.
3088 LAPORTE	4834.	2578.	8200.	15613.
3089 NEWTON	253.	36.	981.	1270.
3090 PORTER	7342.	2161.	7675.	17179.
3091 STEUBEN	554.	194.	1409.	2157.
3092 STJOSEPH	8716.	3723.	13711.	26150.
SUBTOTAL	50346.	31181.	74220.	155747.
STATE-TOTAL	181648.	91857.	303340.	576849.

TABLE 5A: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ORDERS PLANT COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
3001 CLARK	2996.	75876.	227.	7.	232.	109.	25.
3002 CRAWFORD	2220.	8033.	18.	3.	1.	7.	1.
3003 DAVIESS	2515.	26602.	67.	21.	18.	37.	10.
3004 DEARBORN	2590.	29430.	76.	4.	119.	33.	14.
3005 DUBOIS	2591.	30934.	80.	27.	58.	54.	36.
3006 FOUNTAIN	2603.	18257.	48.	15.	24.	34.	26.
3007 GIBSON	2574.	30444.	78.	21.	23.	42.	47.
3008 GREENE	2632.	26894.	71.	11.	10.	36.	21.
3009 HARRISON	2488.	20423.	51.	10.	9.	20.	6.
3010 JACKSON	2873.	33187.	95.	20.	45.	59.	18.
3011 JEFFERSON	2570.	27006.	69.	7.	28.	42.	40.
3012 KNOX	2533.	41546.	105.	25.	30.	76.	70.
3013 LAWRENCE	2731.	38038.	104.	6.	53.	56.	17.
3014 MARTIN	2333.	10969.	26.	4.	17.	14.	4.
3015 OHIO	2494.	4289.	11.	2.	0.	3.	91.
3016 PERRY	2349.	19075.	45.	3.	41.	20.	8.
3017 PIKE	2505.	12281.	31.	8.	0.	16.	4.
3018 POSEY	2488.	21740.	54.	15.	31.	32.	30.
3019 SPENCER	2303.	17134.	39.	12.	2.	19.	16.
3020 SULLIVAN	2563.	19889.	51.	12.	6.	23.	9.
3021 SWITZERL	2518.	6306.	16.	4.	0.	4.	0.
3022 TIPPICAN	3103.	109378.	339.	21.	172.	188.	78.
3023 VERMILLI	2708.	16793.	45.	8.	14.	18.	11.
3024 WARREN	2524.	8705.	22.	13.	0.	6.	3.
3025 WARRICK	2690.	27972.	75.	7.	0.	25.	8.
SUBTOTAL		681201.	1844.	288.	933.	974.	594.

TABLE 5B: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
3026 ALLEN	3344.	280455.	938.	23.	617.	501.	782.
3027 BOONE	3155.	30870.	97.	22.	30.	41.	53.
3028 CLAY	2677.	23933.	64.	11.	7.	30.	17.
3050 DELAWARE	2985.	129219.	386.	17.	263.	191.	120.
3029 FLOYD	2964.	55622.	165.	2.	59.	68.	35.
3030 HAMILTON	3455.	54432.	188.	17.	36.	59.	48.
3031 HANCOCK	3201.	35096.	112.	12.	10.	45.	17.
3032 HENDRICK	3298.	53974.	178.	17.	4.	51.	31.
3033 JOHNSON	3027.	61138.	185.	15.	42.	107.	68.
3034 MADISON	3230.	138451.	447.	18.	453.	219.	3434.
3035 MARION	3534.	792299.	2800.	9.	1680.	1504.	42.
3036 MARSHALL	2979.	34986.	104.	20.	37.	51.	10.
3037 MORGAN	2864.	44176.	127.	9.	11.	48.	25.
3038 SHELBY	2926.	37797.	111.	19.	45.	56.	390.
3039 VANDERBU	2933.	168772.	495.	7.	53.	318.	26.
3040 VIGO	2881.	114528.	330.	11.	159.	255.	
SUBTOTAL		2055748.	6727.	230.	3504.	3545.	5109.

TABLE 5C: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
3041 ADAMS	3070.	26871.	82.	21.	49.	45.	0.
3042 BARTHOLO	3344.	57022.	191.	14.	203.	92.	51.
3043 BENTON	3105.	11262.	35.	22.	2.	29.	21.
3044 BLACKFOR	2799.	15880.	44.	6.	54.	22.	12.
3045 BROWN	2518.	9057.	23.	1.	0.	6.	0.
3046 CARROLL	2933.	17734.	52.	27.	9.	24.	25.
3047 CASS	2888.	40456.	117.	20.	46.	67.	66.
3048 CLINTON	2847.	30547.	87.	24.	30.	49.	36.
3049 DECAUTEUR	2571.	22738.	58.	23.	30.	38.	30.
3051 FAYETTE	2881.	26216.	76.	9.	74.	36.	12.
3052 FRANKLIN	2366.	16943.	40.	11.	6.	16.	3.
3053 FULTON	2817.	16984.	48.	15.	19.	23.	15.
3054 GRANT	2928.	83955.	246.	19.	275.	136.	74.
3055 HENRY	2944.	52603.	155.	17.	88.	74.	24.
3056 HOWARD	3221.	83198.	268.	17.	314.	155.	61.
3057 HUNTINGT	2982.	34970.	104.	16.	56.	52.	35.
3058 JASPER	2575.	20429.	53.	37.	8.	32.	22.
3059 JAY	2729.	23575.	64.	12.	43.	34.	29.
3060 JENNINGS	2312.	19454.	45.	6.	8.	17.	3.
3061 KOSCIUSK	3036.	48127.	146.	40.	117.	82.	39.
3062 MIAMI	2607.	39246.	102.	20.	28.	44.	36.
3063 MONROE	2869.	84849.	243.	3.	197.	123.	74.
3064 MONTGOME	2960.	33930.	100.	26.	63.	61.	29.
3065 NOBLE	2809.	31382.	88.	17.	47.	44.	19.
3066 ORANGE	2317.	16698.	39.	8.	28.	21.	11.
3067 OWEN	2427.	12163.	30.	5.	3.	12.	3.
3068 PARKE	2403.	14600.	35.	13.	1.	19.	6.
3069 PULASKI	2547.	12534.	32.	18.	8.	26.	22.
3070 PUTNAM	2761.	26932.	74.	16.	29.	33.	10.
3071 RANDOLPH	2845.	28915.	82.	17.	54.	42.	17.
3072 RIPLEY	2461.	21138.	52.	12.	31.	29.	11.
3073 RUSH	2549.	20352.	52.	24.	12.	32.	16.
3074 SCOTT	2497.	17144.	43.	4.	0.	20.	5.
3075 STARKE	2415.	19280.	47.	10.	8.	29.	10.
3076 TIPTON	2917.	16650.	49.	17.	11.	20.	13.
3077 UNION	2939.	6582.	19.	10.	2.	8.	12.
3078 WABASH	2962.	35553.	105.	25.	86.	53.	26.
3079 WASHINGT	2478.	19278.	48.	14.	16.	23.	6.
3080 WAYNE	3046.	79109.	241.	20.	194.	143.	114.
3081 WELLS	3120.	23821.	74.	16.	63.	31.	124.
3082 WHITE	2917.	20925.	61.	26.	0.	40.	124.
3083 WHITLEY	2883.	23395.	67.	14.	31.	37.	116.
SUBTOTAL		1262505.	3618.	690.	2344.	1918.	1365.
ORBES-TOTAL		3999454.	12189.	1208.	6781.	6436.	7069.

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TABLE 5D: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	PER CAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
3084 DEKALB	2780.	30837.	86.	10.	52.	37.	26.
3085 ELKHART	3516.	126529.	445.	28.	482.	213.	248.
3086 LAGRANGE	2554.	20890.	53.	22.	17.	24.	16.
3087 LAKE	3141.	546253.	1716.	14.	1698.	857.	526.
3088 LAPORTE	3193.	105342.	336.	24.	225.	178.	84.
3089 NEWTON	2703.	11406.	31.	19.	6.	24.	21.
3090 PORTER	3370.	87114.	294.	12.	108.	97.	94.
3091 STEUBEN	2883.	20159.	58.	9.	26.	43.	11.
3092 ST JOSEPH	3216.	245045.	786.	14.	421.	424.	484.
SUBTOTAL		1193775.	3807.	151.	3034.	1898.	1511.
STATE-TOTAL		5193229.	15996.	1359.	9815.	8334.	8579.

TABLE 17A: ELECTRICITY PRICES FOR YEAR 1985 IN UNPRED PLANT COUNTY
IN THE STATE OF INDIANA

COUNTY NAME	\$/250KWH	RESIDENTIAL C/KWH	COMMERCIAL		\$/120,000KWH	INDUSTRIAL C/KWH
			\$/1500KWH	C/KWH		
3001 CLARK	11.40	4.6	59.33	4.0	2899.	2.4
3002 CRAWFORD	10.34	4.1	59.33	4.0	2899.	2.4
3003 DAVIESS	10.34	4.1	59.33	4.0	2899.	2.4
3004 DEARBORN	8.31	3.3	59.33	4.0	2899.	2.4
3005 DUBOIS	7.92	3.2	59.33	4.0	2899.	2.4
3006 FOUNTAIN	9.96	4.0	59.33	4.0	2899.	2.4
3007 GIBSON	10.74	4.3	59.33	4.0	2899.	2.4
3008 GREENE	10.01	4.0	59.33	4.0	2899.	2.4
3009 HARRISON	11.40	4.6	59.33	4.0	2899.	2.4
3010 JACKSON	11.40	4.6	59.33	4.0	2899.	2.4
3011 JEFFERSON	11.40	4.6	59.33	4.0	2899.	2.4
3012 KNOX	11.40	4.6	59.33	4.0	2899.	2.4
3013 LAWRENCE	11.40	4.6	59.33	4.0	2899.	2.4
3014 MARTIN	11.40	4.6	59.33	4.0	2899.	2.4
3015 OHIO	10.34	4.1	59.33	4.0	2899.	2.4
3016 PERRY	7.83	3.1	59.33	4.0	2899.	2.4
3017 PIKE	11.40	4.6	59.33	4.0	2899.	2.4
3018 POSEY	9.43	3.8	59.33	4.0	2899.	2.4
3019 SPENCER	9.43	3.8	59.33	4.0	2899.	2.4
3020 SULLIVAN	11.40	4.6	59.33	4.0	2899.	2.4
3021 SWITZERL	10.34	4.1	59.33	4.0	2899.	2.4
3022 TIPPICAN	11.40	4.6	59.33	4.0	2899.	2.4
3023 VERMILLI	11.40	4.6	59.33	4.0	2899.	2.4
3024 WARREN	10.34	4.1	59.33	4.0	2899.	2.4
3025 HARRICK	7.88	3.2	59.33	4.0	2899.	2.4

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TABLE 17B: ELECTRICITY PRICES FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3026 ALLEN	8.97	3.6	54.78	3.7	2881.	2.5
3027 BOONE	7.19	2.9	59.33	4.0	2899.	2.4
3028 CLAY	11.40	4.6	59.33	4.0	2899.	2.3
3050 DELAWARE	8.83	3.5	57.50	3.8	2811.	2.4
3029 FLOYD	11.40	4.6	59.33	4.0	2899.	2.4
3030 HAMILTON	11.40	4.6	59.33	4.0	2899.	2.4
3031 HANCOCK	7.11	2.8	59.33	4.0	2899.	2.4
3032 HENDRICK	11.40	4.6	59.33	4.0	2899.	2.4
3033 JOHNSON	10.31	4.1	59.33	4.0	2899.	2.4
3034 MADISON	9.12	3.6	59.33	4.0	2899.	2.4
3035 MARION	8.45	3.4	59.33	4.0	2899.	2.4
3036 MARSHALL	8.13	3.3	59.33	4.0	2899.	2.4
3037 MORGAN	9.92	4.0	59.33	4.0	2899.	2.4
3038 SHELBY	11.40	4.6	59.33	4.0	2899.	2.4
3039 VANDERBU	9.18	3.7	59.33	4.0	2899.	2.4
3040 VIGO	11.40	4.6	59.33	4.0	2899.	2.4

TABLE 17C: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER INDIANA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	\$/250KWH	RESIDENTIAL C/KWH	COMMERCIAL		\$/120,000KWH	INDUSTRIAL C/KWH
			\$/1500KWH	C/KWH		
3041 ADAMS	8.83	3.5	59.33		4.0	2899.
3042 BARTHOLD	9.24	3.7	59.33		4.0	2899.
3043 BENTON	9.28	3.7	59.33		4.0	2899.
3044 BLACKFORD	8.83	3.5	59.33		4.0	2899.
3045 BROWN	9.18	3.7	59.33		4.0	2899.
3046 CARROLL	11.40	4.6	59.33		4.0	2899.
3047 CASS	7.56	3.0	59.33		4.0	2899.
3048 CLINTON	7.88	3.2	59.33		4.0	2899.
3049 DECAUTEUR	11.40	4.6	59.33		4.0	2899.
3051 FAYETTE	11.40	4.6	59.33		4.0	2899.
3052 FRANKLIN	11.40	4.6	59.33		4.0	2899.
3053 FULTON	11.40	4.6	59.33		4.0	2899.
3054 GRANT	9.30	3.7	59.33		4.0	2899.
3055 HENRY	11.40	4.6	59.33		4.0	2899.
3056 HOWARD	11.40	4.6	59.33		4.0	2899.
3057 HUNTINGTON	7.72	3.1	59.33		4.0	2899.
3058 JASPER	7.14	2.9	59.33		4.0	2899.
3059 JAY	8.03	3.5	59.33		4.0	2899.
3060 JENNINGS	11.40	4.6	59.33		4.0	2899.
3061 KOSCIUSKO	9.28	3.7	59.33		4.0	2899.
3062 MIAMI	7.61	3.0	59.33		4.0	2899.
3063 MONROE	9.18	3.7	59.33		4.0	2899.
3064 MONTGOMERY	7.37	2.9	59.33		4.0	2899.
3065 NOBLE	8.03	3.5	59.33		4.0	2899.
3066 ORANGE	7.14	2.9	59.33		4.0	2899.
3067 OWEN	11.40	4.6	59.33		4.0	2899.
3068 PARKE	9.32	3.7	59.33		4.0	2899.
3069 PULASKI	9.18	3.7	59.33		4.0	2899.
3070 PUTNAM	11.40	4.6	59.33		4.0	2899.
3071 RANDOLPH	8.83	3.5	59.33		4.0	2899.
3072 RIPLEY	11.40	4.6	59.33		4.0	2899.
3073 RUSH	11.40	4.6	59.33		4.0	2899.
3074 SCOTT	9.27	3.7	59.33		4.0	2899.
3075 STARKE	9.28	3.7	59.33		4.0	2899.
3076 TIPTON	8.70	3.5	59.33		4.0	2899.
3077 UNION	9.18	3.7	59.33		4.0	2899.
3078 WABASH	11.40	4.6	59.33		4.0	2899.
3079 WASHINGTON	11.40	4.6	59.33		4.0	2899.
3080 WAYNE	8.25	3.3	59.33		4.0	2899.
3081 WELLS	7.35	2.9	59.33		4.0	2899.
3082 WHITE	9.28	3.7	59.33		4.0	2899.
3083 WHITLEY	7.30	2.9	59.33		4.0	2899.

TABLE 17D: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3084 DEKALB	7.49	3.0	59.33	4.0	2899.	2.4
3085 ELKHART	9.13	3.7	59.33	4.00	2899.	2.4
3086 LAGRANGE	9.18	3.7	59.33	4.00	2899.	2.4
3087 LAKE	9.28	3.7	79.83	5.3	2759.	2.3
3088 LAPORTE	9.28	3.7	59.33	4.00	2899.	2.4
3089 NEWTON	9.18	3.7	59.33	4.00	2899.	2.4
3090 PORTER	9.28	3.7	59.33	4.00	2899.	2.4
3091 STEUBEN	9.28	3.7	59.33	4.00	2899.	2.4
3092 ST JOSEPH	8.54	3.4	57.50	3.8	2840.	2.4

TABLE 18A = ELECTRICITY PRICES FOR YEAR 2000 IN DRBES PLANT COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3001 CLARK	9.39	3.8	48.91	3.3	3615.	3.0
3002 CRAWFORD	8.53	3.4	48.91	3.3	3615.	3.3
3003 DAVIESS	8.53	3.4	48.91	3.3	3615.	3.3
3004 DEARBORN	6.85	2.7	48.91	3.3	3615.	3.3
3005 DUBOIS	6.53	2.6	48.91	3.3	3615.	3.3
3006 FOUNTAIN	8.21	3.3	48.91	3.3	3615.	3.3
3007 GIBSON	8.85	3.5	48.91	3.3	3615.	3.3
3008 GREENE	8.25	3.3	48.91	3.3	3615.	3.3
3009 HARRISON	9.39	3.8	48.91	3.3	3615.	3.3
3010 JACKSON	9.39	3.8	48.91	3.3	3615.	3.3
3011 JEFFERSON	9.39	3.8	48.91	3.3	3615.	3.3
3012 KNOX	9.39	3.8	48.91	3.3	3615.	3.3
3013 LAWRENCE	9.39	3.8	48.91	3.3	3615.	3.3
3014 MARTIN	9.39	3.8	48.91	3.3	3615.	3.3
3015 OHIO	8.53	3.4	48.91	3.3	3615.	3.3
3016 PERRY	6.45	2.6	48.91	3.3	3615.	3.3
3017 PIKE	9.39	3.8	48.91	3.3	3615.	3.3
3018 POSEY	7.77	3.1	48.91	3.3	3615.	3.3
3019 SPENCER	7.77	3.1	48.91	3.3	3615.	3.3
3020 SULLIVAN	9.39	3.8	48.91	3.3	3615.	3.3
3021 SWITZERLAND	8.53	3.4	48.91	3.3	3615.	3.3
3022 TIPPICANOE	9.39	3.8	48.91	3.3	3615.	3.3
3023 VERMILLION	9.39	3.8	48.91	3.3	3615.	3.3
3024 WARREN	8.53	3.4	48.91	3.3	3615.	3.3
3025 WARRICK	6.50	2.6	48.91	3.3	3615.	3.3

TABLE 18B: ELECTRICITY PRICES FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3026 ALLEN	7.39	3.0	45.16	3.0	3716.	1
3027 BOONE	5.93	2.4	48.91	3.3	3615.	100
3028 CLAY	9.39	3.8	48.91	3.3	3615.	100
3050 DELAWARE	7.28	2.9	47.40	3.3	3615.	100
3029 FLOYD	9.39	3.8	48.91	3.3	3615.	100
3030 HAMILTON	9.39	3.8	48.91	3.3	3615.	100
3031 HANCOCK	5.87	2.3	48.91	3.3	3615.	100
3032 HENDRICK	9.39	3.8	48.91	3.3	3615.	100
3033 JOHNSON	8.50	3.4	48.91	3.3	3615.	100
3034 MADISON	7.52	3.0	48.91	3.3	3615.	100
3035 MARION	6.96	2.8	48.91	3.3	3615.	100
3036 MARSHALL	6.70	2.7	48.91	3.3	3615.	100
3037 MORGAN	8.17	3.3	48.91	3.3	3615.	100
3038 SHELBY	9.39	3.8	48.91	3.3	3615.	100
3039 VANDERBU	7.57	3.0	48.91	3.3	3615.	100
3040 VIGO	9.39	3.8	48.91	3.3	3615.	100

TABLE 18C: ELECTRICITY PRICES FOR YEAR 2000 IN ALL 92 INDIANA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL			
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3041 ADAMS	7.28	2.9	48.91		3615.	
3042 BARTHOLDI	7.62	3.0	48.91		3615.	
3043 BENTON	7.65	3.0	48.91		3615.	
3044 BLACKFORD	7.28	3.0	48.91		3615.	
3045 BROWN	7.57	3.0	48.91		3615.	
3046 CARROLL	9.39	3.0	48.91		3615.	
3047 CASS	6.23	3.0	48.91		3615.	
3048 CLINTON	6.50	3.0	48.91		3615.	
3049 DECATEUR	9.39	3.0	48.91		3615.	
3051 FAYETTE	9.39	3.0	48.91		3615.	
3052 FRANKLIN	9.39	3.0	48.91		3615.	
3053 FULTON	9.39	3.0	48.91		3615.	
3054 GRANT	7.66	3.0	48.91		3615.	
3055 HENRY	9.39	3.0	48.91		3615.	
3056 HOWARD	9.39	3.0	48.91		3615.	
3057 HUNTINGT	6.37	3.0	48.91		3615.	
3058 JASPER	5.88	3.0	48.91		3615.	
3059 JAY	7.28	3.0	48.91		3615.	
3060 JENNINGS	9.39	3.0	48.91		3615.	
3061 KOSCIUSKO	7.65	3.0	48.91		3615.	
3062 MIAMI	6.28	3.0	48.91		3615.	
3063 MONROE	7.57	3.0	48.91		3615.	
3064 MONTGOME	6.08	3.0	48.91		3615.	
3065 NOBLE	7.28	3.0	48.91		3615.	
3066 ORANGE	5.88	3.0	48.91		3615.	
3067 OWEN	9.39	3.0	48.91		3615.	
3068 PARKE	7.68	3.0	48.91		3615.	
3069 PULASKI	7.57	3.0	48.91		3615.	
3070 PUTNAM	9.39	3.0	48.91		3615.	
3071 RANDOLPH	7.28	3.0	48.91		3615.	
3072 RIPLEY	9.39	3.0	48.91		3615.	
3073 RUSH	9.39	3.0	48.91		3615.	
3074 SCOTT	7.64	3.0	48.91		3615.	
3075 STARKE	7.65	3.0	48.91		3615.	
3076 TIPTON	7.17	3.0	48.91		3615.	
3077 UNION	7.57	3.0	48.91		3615.	
3078 WABASH	9.39	3.0	48.91		3615.	
3079 WASHINGT	9.39	3.0	48.91		3615.	
3080 WAYNE	6.80	3.0	48.91		3615.	
3081 WELLS	6.06	3.0	48.91		3615.	
3082 WHITE	7.65	3.0	48.91		3615.	
3083 WHITLEY	6.01	3.0	48.91		3615.	

TABLE 18D: ELECTRICITY PRICES FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
3084 DEKALB	6.17	2.5	48.91	3.3	3615.	3.0
3085 ELKHART	7.52	3.0	48.91	3.3	3615.	3.0
3086 LAGRANGE	7.57	3.0	48.91	3.3	3615.	3.0
3087 LAKE	7.65	3.1	65.81	4.4	3440.	2.9
3088 LAPORTE	7.65	3.1	48.91	3.3	3615.	3.0
3089 NEWTON	7.57	3.0	48.91	3.3	3615.	3.0
3090 PORTER	7.65	3.1	48.91	3.3	3615.	3.0
3091 STEUBEN	7.65	3.1	48.91	3.3	3615.	3.0
3092 STJOSEPH	7.04	2.8	47.40	3.2	3541.	3.0

TABLE 21A: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
3001 CLARK	587.	351.	445.	1383.
3002 CRAWFORD	26.	1.	21.	48.
3003 DAVIESS	102.	16.	132.	250.
3004 DEARBORN	230.	210.	165.	604.
3005 DUBOIS	150.	63.	225.	438.
3006 FOUNTAIN	80.	24.	122.	225.
3007 GIBSON	126.	22.	151.	299.
3008 GREENE	106.	9.	107.	222.
3009 HARRISON	81.	9.	73.	163.
3010 JACKSON	169.	47.	208.	425.
3011 JEFFERSON	125.	30.	131.	285.
3012 KNOX	158.	27.	228.	413.
3013 LAWRENCE	207.	62.	184.	452.
3014 MARTIN	53.	21.	55.	129.
3015 OHIO	16.	0.	10.	26.
3016 PERRY	111.	60.	87.	258.
3017 PIKE	39.	0.	44.	84.
3018 POSEY	100.	34.	129.	263.
3019 SPENCER	53.	2.	62.	117.
3020 SULLIVAN	74.	5.	75.	154.
3021 SWITZERL	22.	0.	17.	39.
3022 TIPPICAN	669.	198.	615.	1483.
3023 VERMILLI	81.	14.	69.	164.
3024 WARREN	27.	0.	35.	62.
3025 WARRICK	110.	0.	70.	180.
SUBTOTAL	3503.	1203.	3459.	8165.

TABLE 21B: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
3026 ALLEN	2056.	794.	1706.	4555.
3027 BOONE	167.	30.	161.	358.
3028 CLAY	94.	6.	91.	191.
3050 DELAWARE	864.	346.	693.	1902.
3029 FLOYD	330.	69.	208.	607.
3030 HAMILTON	338.	38.	203.	579.
3031 HANCOCK	172.	9.	130.	311.
3032 HENDRICK	272.	3.	155.	430.
3033 JOHNSON	300.	39.	292.	631.
3034 MADISON	1142.	679.	899.	2720.
3035 MARION	6026.	2119.	4839.	12983.
3036 MARSHALL	182.	38.	185.	405.
3037 MORGAN	199.	10.	135.	344.
3038 SHELBY	200.	48.	203.	451.
3039 VANDERBU	630.	39.	615.	1284.
3040 VIGO	593.	167.	708.	1468.
SUBTOTAL	13563.	4432.	11222.	29218.

TABLE 21C: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORDERS COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
3041 ADAMS	154.	54.	182.	390.
3042 BARTHOLDI	481.	300.	400.	1181.
3043 BENTON	38.	1.	82.	121.
3044 BLACKFORD	115.	82.	106.	303.
3045 BROWN	36.	0.	15.	51.
3046 CARROLL	71.	7.	104.	182.
3047 CASS	204.	47.	228.	480.
3048 CLINTON	142.	29.	177.	348.
3049 DECAEUR	98.	29.	150.	277.
3051 FAYETTE	184.	105.	163.	452.
3052 FRANKLIN	61.	5.	60.	126.
3053 FULTON	83.	20.	98.	200.
3054 GRANT	618.	405.	578.	1601.
3055 HENRY	320.	106.	279.	706.
3056 HOWARD	681.	467.	648.	1797.
3057 HUNTINGTON	206.	65.	198.	469.
3058 JASPER	66.	6.	129.	202.
3059 JAY	131.	51.	140.	322.
3060 JENNINGS	75.	8.	57.	139.
3061 KOSCIUSKO	301.	142.	373.	816.
3062 MIAMI	174.	28.	162.	364.
3063 MONROE	581.	276.	447.	1304.
3064 MONTGOMERY	190.	70.	244.	504.
3065 NOBLE	170.	53.	176.	399.
3066 ORANGE	80.	34.	89.	203.
3067 OWEN	44.	2.	36.	82.
3068 PARKE	44.	1.	60.	105.
3069 PULASKI	42.	6.	88.	137.
3070 PUTNAM	135.	31.	133.	299.
3071 RANDOLPH	167.	65.	179.	411.
3072 RIPLEY	100.	35.	116.	252.
3073 RUSH	73.	10.	117.	200.
3074 SCOTT	59.	0.	49.	108.
3075 STARKE	67.	7.	84.	158.
3076 TIPTON	75.	10.	86.	172.
3077 UNION	26.	2.	35.	63.
3078 WABASH	227.	109.	248.	584.
3079 WASHINGTON	79.	15.	92.	187.
3080 WAYNE	531.	251.	535.	1318.
3081 WELLS	170.	84.	160.	415.
3082 WHITE	71.	0.	115.	186.
3083 WHITLEY	122.	33.	137.	292.
SUBTOTAL	7299.	3053.	7556.	17908.
ORBES-TOTAL	24365.	8688.	22237.	55291.

TABLE 21D: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
3084 DEKALB	185.	66.	151.	402.
3085 ELKHART	1153.	732.	931.	2816.
3086 LAGRANGE	85.	15.	108.	208.
3087 LAKE	4396.	2551.	3313.	10260.
3088 LAPORTE	726.	284.	647.	1657.
3089 NEWTON	40.	4.	81.	125.
3090 PORTER	613.	132.	337.	1081.
3091 STEUBEN	98.	25.	132.	256.
3092 ST JOSEPH	1627.	510.	1345.	3482.
SUBTOTAL	8922.	4320.	7044.	20286.
STATE-TOTAL	33287.	13008.	29281.	75576.

TABLE 22A: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
3001 CLARK	1475.	573.	674.	2721.
3002 CRAWFORD	66.	1.	31.	99.
3003 DAVIESS	258.	26.	200.	483.
3004 DEARBORN	577.	343.	249.	1169.
3005 DUBOIS	376.	103.	341.	819.
3006 FOUNTAIN	201.	39.	184.	424.
3007 GIBSON	316.	36.	228.	581.
3008 GREENE	268.	15.	161.	444.
3009 HARRISON	204.	14.	110.	328.
3010 JACKSON	426.	77.	315.	818.
3011 JEFFERSO	313.	48.	198.	560.
3012 KNOX	398.	43.	345.	786.
3013 LAWRENCE	520.	100.	278.	899.
3014 MARTIN	133.	34.	83.	250.
3015 OHIO	40.	0.	15.	56.
3016 PERRY	280.	98.	132.	510.
3017 PIKE	99.	0.	67.	166.
3018 POSEY	251.	56.	195.	501.
3019 SPENCER	133.	3.	94.	230.
3020 SULLIVAN	186.	8.	114.	308.
3021 SWITZERL	55.	0.	26.	80.
3022 TIPPICAN	1682.	324.	930.	2937.
3023 VERMILLI	203.	23.	105.	331.
3024 WARREN	68.	0.	52.	120.
3025 WARRICK	276.	0.	106.	383.
SUBTOTAL	8804.	1964.	5234.	16002.

TABLE 22B: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
3026 ALLEN	5168.	1295.	2581.	9044.
3027 BOONE	420.	48.	244.	712.
3028 CLAY	237.	9.	137.	384.
3050 DELAWARE	2171.	565.	1048.	3704.
3029 FLOYD	829.	112.	315.	1256.
3030 HAMILTON	849.	62.	307.	1218.
3031 HANCOCK	432.	14.	197.	644.
3032 HENDRICK	684.	5.	235.	923.
3033 JOHNSON	753.	64.	441.	1259.
3034 MADISON	2871.	1108.	1360.	5339.
3035 MARION	15146.	3459.	7322.	25926.
3036 MARSHALL	458.	62.	260.	800.
3037 MORGAN	500.	16.	204.	720.
3038 SHELBY	502.	78.	308.	888.
3039 VANDERBU	1583.	64.	930.	2578.
3040 VIGO	1490.	273.	1071.	2834.
SUBTOTAL	34092.	7236.	16981.	58309.

TABLE 22C: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
3041 ADAMS	388.	88.	275.	751.
3042 BARTHOLO	1208.	490.	606.	2304.
3043 BENTON	96.	2.	124.	222.
3044 BLACKFOR	290.	134.	160.	584.
3045 BROWN	91.	0.	22.	113.
3046 CARROLL	180.	11.	157.	348.
3047 CASS	513.	77.	345.	936.
3048 CLINTON	358.	47.	268.	673.
3049 DECATEUR	246.	47.	227.	520.
3051 FAYETTE	463.	171.	247.	881.
3052 FRANKLIN	153.	8.	91.	251.
3053 FULTON	208.	32.	148.	388.
3054 GRANT	1554.	660.	875.	3089.
3055 HENRY	805.	174.	423.	1401.
3056 HOWARD	1712.	763.	981.	3456.
3057 HUNTINGT	518.	106.	300.	924.
3058 JASPER	167.	10.	196.	373.
3059 JAY	330.	83.	211.	625.
3060 JENNINGS	188.	13.	86.	287.
3061 KOSCIUSK	757.	231.	564.	1553.
3062 MIAMI	438.	46.	245.	729.
3063 MONROE	1460.	450.	677.	2587.
3064 MONTGOME	478.	114.	369.	961.
3065 NOBLE	427.	87.	267.	781.
3066 ORANGE	202.	55.	135.	392.
3067 OWEN	110.	4.	55.	169.
3068 PARKE	111.	2.	91.	203.
3069 PULASKI	107.	11.	133.	250.
3070 PUTNAM	339.	51.	201.	591.
3071 RANDOLPH	420.	106.	271.	797.
3072 RIPLEY	252.	58.	176.	486.
3073 RUSH	183.	17.	176.	376.
3074 SCOTT	149.	0.	74.	223.
3075 STARKE	169.	11.	128.	307.
3076 TIPTON	189.	17.	130.	336.
3077 UNION	65.	3.	53.	122.
3078 WABASH	571.	178.	376.	1125.
3079 WASHINGT	200.	25.	139.	364.
3080 WAYNE	1336.	410.	810.	2555.
3081 WELLS	427.	137.	243.	808.
3082 WHITE	180.	0.	174.	354.
3083 WHITLEY	307.	54.	207.	569.
SUBTOTAL	18346.	4984.	11434.	34764.
ORBES-TOTAL	61243.	14183.	33648.	109073.

TABLE 22D: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
3084 DEKALB	464.	108.	228.	800.
3085 ELKHART	2898.	1195.	1408.	5501.
3086 LAGRANGE	213.	25.	163.	402.
3087 LAKE	11050.	4164.	5013.	20227.
3088 LAPORTE	1824.	464.	979.	3267.
3089 NEWTON	100.	7.	123.	230.
3090 PORTER	1540.	216.	509.	2265.
3091 STEUBEN	248.	41.	199.	488.
3092 ST JOSEPH	4090.	833.	2035.	6958.
SUBTOTAL	22426.	7052.	10659.	40137.
STATE-TOTAL	83669.	21235.	44307.	149210.

TABLE 23A: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3001 CLARK	2454.	2875.	5210.	10539.
3002 CRAWFORD	155.	10.	341.	505.
3003 DAVIESS	541.	164.	1948.	2653.
3004 DEARBORN	893.	1598.	1791.	4282.
3005 DUBOIS	686.	566.	2887.	4139.
3006 FOUNTAIN	389.	227.	1657.	2273.
3007 GIBSON	651.	224.	2186.	3061.
3008 GREENE	593.	100.	1660.	2353.
3009 HARRISON	443.	92.	1107.	1642.
3010 JACKSON	821.	448.	2824.	4093.
3011 JEFFERSON	613.	266.	1804.	2704.
3012 KNOX	832.	273.	3345.	4450.
3013 LAWRENCE	982.	572.	2443.	3997.
3014 MARTIN	241.	186.	694.	1120.
3015 OHIO	97.	2.	173.	271.
3016 PERRY	473.	500.	1033.	2005.
3017 PIKE	240.	3.	756.	999.
3018 POSEY	470.	314.	1693.	2477.
3019 SPENCER	309.	21.	1016.	1346.
3020 SULLIVAN	420.	52.	1200.	1672.
3021 SWITZERL	136.	0.	295.	431.
3022 TIPPICAN	3179.	1847.	8170.	13196.
3023 VERMILLI	413.	141.	990.	1544.
3024 WARREN	165.	0.	591.	757.
3025 WARRICK	675.	0.	1207.	1882.
SUBTOTAL	16869.	10500.	47022.	74390.

TABLE 23B: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN OTHER ORBS SMSA COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3026 ALLEN	9308.	7041.	21607.	37957.
3027 BOONE	859.	299.	2315.	3473.
3028 CLAY	536.	64.	1439.	2039.
3050 DELAWARE	3880.	3045.	8705.	15631.
3029 FLOYD	1642.	672.	2899.	5212.
3030 HAMILTON	1821.	399.	3063.	5283.
3031 HANCOCK	993.	99.	2105.	3196.
3032 HENDRICK	1653.	37.	2637.	4327.
3033 JOHNSON	1595.	411.	4345.	6351.
3034 MADISON	4781.	5570.	10526.	20877.
3035 MARION	27684.	19079.	62191.	108954.
3036 MARSHALL	918.	374.	2612.	3904.
3037 MORGAN	1149.	113.	2182.	3445.
3038 SHELBY	986.	462.	2809.	4257.
3039 VANDERBU	3875.	474.	10583.	14932.
3040 VIGO	2866.	1585.	9576.	14027.
SUBTOTAL	64546.	39724.	149594.	253865.

TABLE 23C: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3041 ADAMS	716.	491.	2354.	3560.
3042 BARTHOLO	1987.	2433.	4630.	9050.
3043 BENTON	224.	15.	1341.	1580.
3044 BLACKFOR	471.	654.	1210.	2335.
3045 BROWN	229.	1.	258.	487.
3046 CARROLL	398.	76.	1617.	2091.
3047 CASS	1013.	460.	3167.	4641.
3048 CLINTON	725.	290.	2520.	3536.
3049 DECAUTEUR	477.	277.	2045.	2799.
3051 FAYETTE	779.	871.	1930.	3580.
3052 FRANKLIN	336.	54.	928.	1318.
3053 FULTON	410.	191.	1350.	1951.
3054 GRANT	2556.	3279.	6686.	12521.
3055 HENRY	1489.	970.	3638.	6098.
3056 HOWARD	2786.	3748.	7422.	13956.
3057 HUNTINGT	971.	597.	2612.	4181.
3058 JASPER	374.	69.	2042.	2484.
3059 JAY	599.	455.	1779.	2833.
3060 JENNINGS	409.	85.	865.	1359.
3061 KOSCIUSK	1340.	1236.	4640.	7215.
3062 MIAMI	904.	286.	2353.	3544.
3063 MONROE	2532.	2355.	5452.	10339.
3064 MONTGOME	883.	637.	3171.	4692.
3065 NOBLE	804.	492.	2335.	3631.
3066 ORANGE	362.	298.	1122.	1782.
3067 OWEN	255.	25.	587.	867.
3068 PARKE	263.	11.	999.	1273.
3069 PULASKI	229.	68.	1325.	1622.
3070 PUTNAM	668.	304.	1849.	2820.
3071 RANDOLPH	764.	579.	2290.	3632.
3072 RIPLEY	467.	322.	1515.	2304.
3073 RUSH	394.	107.	1762.	2263.
3074 SCOTT	360.	0.	834.	1193.
3075 STARKE	370.	70.	1297.	1737.
3076 TIPTON	402.	108.	1283.	1793.
3077 UNION	149.	21.	561.	732.
3078 WABASH	1002.	941.	3060.	5003.
3079 WASHINGT	404.	154.	1309.	1867.
3080 WAYNE	2337.	2166.	6585.	11089.
3081 WELLS	738.	717.	1949.	3404.
3082 WHITE	436.	0.	1963.	2398.
3083 WHITLEY	594.	316.	1858.	2768.
SUBTOTAL	33607.	26229.	98492.	158327.
ORBES-TOTAL	115020.	76452.	295107.	486581.

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TABLE 23D: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3084 DEKALB	846.	593.	1933.	3373.
3085 ELKHART	4775.	5940.	10785.	21500.
3086 LAGRANGE	438.	156.	1558.	2151.
3087 LAKE	19035.	21647.	40133.	80814.
3088 LAPORTE	4235.	3249.	10562.	18046.
3089 NEWTON	222.	45.	1264.	1531.
3090 PORTER	6432.	2723.	9886.	19041.
3091 STEUBEN	485.	245.	1815.	2545.
3092 STJOSEPH	7635.	4691.	17660.	29986.
SUBTOTAL	44103.	39288.	95595.	178986.
STATE-TOTAL	159123.	115740.	390702.	665568.

TABLE 24A: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3001 CLARK	2213.	4260.	7960.	14433.
3002 CRAWFORD	140.	15.	521.	675.
3003 DAVIESS	488.	242.	2977.	3707.
3004 DEARBORN	805.	2368.	2737.	5910.
3005 DUBOIS	619.	839.	4411.	5869.
3006 FOUNTAIN	351.	337.	2532.	3220.
3007 GIBSON	588.	331.	3340.	4258.
3008 GREENE	534.	148.	2537.	3220.
3009 HARRISON	399.	136.	1692.	2227.
3010 JACKSON	740.	664.	4315.	5719.
3011 JEFFERSON	553.	424.	2756.	3734.
3012 KNOX	750.	405.	5111.	6265.
3013 LAWRENCE	885.	848.	3734.	5467.
3014 MARTIN	217.	275.	1060.	1553.
3015 OHIO	87.	3.	264.	354.
3016 PERRY	426.	740.	1578.	2744.
3017 PIKE	217.	4.	1155.	1375.
3018 POSEY	424.	465.	2587.	3475.
3019 SPENCER	278.	31.	1553.	1862.
3020 SULLIVAN	379.	77.	1833.	2289.
3021 SHITZERL	122.	0.	451.	573.
3022 TIPPICAN	2867.	2736.	12484.	18087.
3023 VERMILLION	372.	209.	1513.	2094.
3024 WARREN	149.	0.	904.	1053.
3025 WARRICK	609.	0.	1845.	2454.
SUBTOTAL	15213.	15558.	71846.	102617.

TABLE 24B: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3026 ALLEN	8395.	10433.	33014.	51842.
3027 BOONE	775.	443.	3537.	4754.
3028 CLAY	483.	95.	2199.	2777.
3050 DELAWARE	3499.	4512.	13302.	21313.
3029 FLOYD	1481.	995.	4429.	6905.
3030 HAMILTON	1643.	592.	4679.	6914.
3031 HANCOCK	896.	146.	3216.	4258.
3032 HENDRICK	1491.	55.	4029.	5575.
3033 JOHNSON	1438.	609.	6639.	8686.
3034 MADISON	4312.	8253.	16084.	28649.
3035 MARION	24966.	28270.	95025.	148262.
3036 MARSHALL	828.	555.	3991.	5374.
3037 MORGAN	1037.	167.	3335.	4538.
3038 SHELBY	889.	685.	4292.	5865.
3039 VANDERBU	3494.	702.	16171.	20367.
3040 VIGO	2584.	2348.	14632.	19564.
SUBTOTAL	58210.	58861.	228573.	345643.

TABLE 24C: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3041 ADAMS	646.	727.	3596.	4969.
3042 BARTHOLO	1792.	3605.	7075.	12471.
3043 BENTON	202.	23.	2049.	2274.
3044 BLACKFOR	425.	969.	1849.	3243.
3045 BROWN	206.	2.	394.	602.
3046 CARROLL	359.	113.	2470.	2942.
3047 CASS	914.	682.	4839.	6435.
3048 CLINTON	654.	430.	3851.	4935.
3049 DECAUTEUR	430.	410.	3125.	3965.
3051 FAYETTE	703.	1291.	2949.	4942.
3052 FRANKLIN	303.	80.	1418.	1801.
3053 FULTON	370.	283.	2063.	2716.
3054 GRANT	2305.	4858.	10216.	17380.
3055 HENRY	1343.	1438.	5559.	8340.
3056 HOWARD	2512.	5554.	11340.	19406.
3057 HUNTINGT	876.	885.	3991.	5752.
3058 JASPER	337.	102.	3120.	3558.
3059 JAY	540.	675.	2718.	3933.
3060 JENNINGS	389.	125.	1322.	1817.
3061 KOSCIUSK	1208.	1831.	7089.	10128.
3062 MIAMI	816.	424.	3596.	4836.
3063 MONROE	2283.	3489.	8331.	14103.
3064 MONTGOME	796.	945.	4845.	6586.
3065 NOBLE	725.	728.	3567.	5021.
3066 ORANGE	326.	441.	1715.	2483.
3067 OWEN	230.	37.	897.	1164.
3068 PARKE	238.	17.	1526.	1780.
3069 PULASKI	206.	101.	2024.	2332.
3070 PUTNAM	603.	450.	2824.	3877.
3071 RANDOLPH	689.	858.	3499.	5045.
3072 RIPLEY	421.	477.	2315.	3213.
3073 RUSH	356.	159.	2692.	3206.
3074 SCOTT	324.	0.	1274.	1598.
3075 STARKE	333.	104.	1982.	2420.
3076 TIPTON	363.	159.	1961.	2483.
3077 UNION	135.	32.	857.	1024.
3078 WABASH	903.	1394.	4676.	6973.
3079 WASHINGT	365.	228.	2001.	2593.
3080 WAYNE	2108.	3210.	10061.	15379.
3081 WELLS	666.	1062.	2978.	4706.
3082 WHITE	393.	0.	2999.	3391.
3083 WHITLEY	536.	468.	2839.	3842.
SUBTOTAL	30307.	38864.	150492.	219663.
ORBES-TOTAL	103728.	113282.	450910.	667923.

TABLE 24D: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF INDIANA IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
3084 DEKALB	763.	879.	2954.	4596.
3085 ELKHART	4306.	8802.	16479.	29587.
3086 LAGRANGE	395.	231.	2380.	3006.
3087 LAKE	17166.	32075.	61322.	110562.
3088 LAPORTE	3819.	4814.	16138.	24771.
3089 NEWTON	200.	67.	1931.	2198.
3090 PORTER	5800.	4035.	15105.	24941.
3091 STEUBEN	437.	362.	2773.	3573.
3092 STJOSEPH	6886.	6950.	26983.	40819.
SUBTOTAL	39773.	58215.	146065.	244053.
STATE-TOTAL	143501.	171497.	596975.	911976.

APPENDIX D

KENTUCKY

Sources for Tables No. III-B-

- 1 U.S. Federal Power Commission, Typical Electric Bills, 1974.
- 3 Drysdale, Frank R., and Calef, Charles E., The Energetics of the United States of America: An Atlas, (Brookhaven National Laboratory, 1976). Residential, commercial and industrial consumption was determined with the help of use factors as given in Eqs. (1), (2), and (3) in the text and related discussion.
- 4 Ibid.
- 5 U.S. Bureau of the Census, County and City Data Book, 1972 (U.S. Government Printing Office, 1973).
- 17 Growth rates for 1975-85 from Table III-B-16 applied to prices in Table III-B-1. Prices are in 1974 dollars.
- 18 Growth rates for 1975-2000 from Table III-B-16 applied to prices in Table III-B-1. Prices are in 1974 dollars.
- 21 Growth rates for 1975-85 from Table III-B-16 applied to quantities in Table III-B-3.
- 22 Growth rates for 1975-2000 from Table III-B-16 applied to quantities in Table III-B-3.
- 23 Growth rates for 1975-85 from Table III-B-16 applied to quantities in Table III-B-4.
- 24 Growth rates in 1975-2000 from Table III-B-16 applied to quantities in Table III-B-4.

TABLE IA: ELECTRICITY PRICES FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4001 BALLARD	8.06	3.2	46.05	3.1	1735.	1.4
4002 BRACKEN	8.06	3.2	46.05	3.1	1735.	1.4
4003 BRECKINR	8.06	3.2	46.05	3.1	1735.	1.4
4004 BUTLER	8.06	3.2	46.05	3.1	1735.	1.4
4005 CARLISLE	8.06	3.2	46.05	3.1	1735.	1.4
4006 GALLATIN	8.06	3.2	46.05	3.1	1735.	1.4
4007 GREENUP	8.06	3.2	46.05	3.1	1735.	1.4
4008 HENDERSON	7.75	3.1	46.05	3.1	1735.	1.4
4009 LEWIS	8.06	3.2	46.05	3.1	1735.	1.4
4010 LIVINGST	7.45	3.0	46.05	3.1	1735.	1.4
4011 MARSHALL	8.06	3.2	46.05	3.1	1735.	1.4
4012 MASON	8.03	3.2	46.05	3.1	1735.	1.4
4013 MCLEAN	8.06	3.2	46.05	3.1	1735.	1.4
4014 MEADE	8.06	3.2	46.05	3.1	1735.	1.4
4015 OWEN	8.06	3.2	46.05	3.1	1735.	1.4
4016 RUSSEL	8.06	3.2	46.05	3.1	1735.	1.4
4017 SCOTT	8.03	3.2	46.05	3.1	1735.	1.4
4018 TRIGG	8.06	3.2	46.05	3.1	1735.	1.4
4019 TRIMBLE	8.06	3.2	46.05	3.1	1735.	1.4
4020 UNION	8.03	3.2	46.05	3.1	1735.	1.4
4021 WEBSTER	9.08	3.6	46.05	3.1	1735.	1.4

TABLE 18: ELECTRICITY PRICES FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4022 BOONE	6.28	2.5	46.05	3.1	1735.	1.4
4023 BOYD	7.75	3.1	46.05	3.1	1735.	1.4
4024 CAMPBELL	6.28	2.5	46.05	3.1	1735.	1.4
4025 DAVIESS	7.43	3.0	42.04	2.8	1870.	1.6
4026 FAYETTE	8.03	3.2	45.84	3.1	1826.	1.5
4027 JEFFERSON	6.12	2.4	44.23	2.9	1792.	1.5
4028 KENTON	6.28	2.5	52.09	3.5	1450.	1.2

TABLE IC: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER UNITS
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4029 ADAIR	8.03	3.2	46.05	3.1	1735.	1.4
4030 ALLEN	7.10	2.8	46.05	3.1	1735.	1.4
4031 ANDERSON	8.03	3.2	46.05	3.1	1735.	1.4
4032 BARREN	8.45	3.4	46.05	3.1	1735.	1.4
4033 BATH	6.92	2.8	46.05	3.1	1735.	1.4
4034 BELL	8.03	3.2	46.05	3.1	1735.	1.4
4035 BOURBON	8.03	3.2	46.05	3.1	1735.	1.4
4036 BOYLE	8.03	3.2	46.05	3.1	1735.	1.4
4037 BREATHIT	6.92	2.8	46.05	3.1	1735.	1.4
4038 BULLIT	6.12	2.4	46.05	3.1	1735.	1.4
4039 CALDWELL	8.45	3.4	46.05	3.1	1735.	1.4
4040 CALLOWAY	6.22	2.5	46.05	3.1	1735.	1.4
4041 CARROLL	8.03	3.2	46.05	3.1	1735.	1.4
4042 CARTER	6.92	2.8	46.05	3.1	1735.	1.4
4043 CASEY	6.92	2.8	46.05	3.1	1735.	1.4
4044 CHRISTIA	5.11	2.0	46.05	3.1	1735.	1.4
4045 CLARK	8.03	3.2	46.05	3.1	1735.	1.4
4046 CLAY	6.92	2.8	46.05	3.1	1735.	1.4
4047 CLINTON	6.92	2.8	46.05	3.1	1735.	1.4
4048 CRITTEND	8.03	3.2	46.05	3.1	1735.	1.4
4049 CUMBERLA	6.92	2.8	46.05	3.1	1735.	1.4
4050 EDMONSON	6.92	2.8	46.05	3.1	1735.	1.4
4051 ELLIOT	6.92	2.8	46.05	3.1	1735.	1.4
4052 ESTILL	8.03	3.2	46.05	3.1	1735.	1.4
4053 FLEMING	6.92	2.8	46.05	3.1	1735.	1.4
4054 FLOYD	7.62	3.0	46.05	3.1	1735.	1.4
4055 FRANKLIN	7.10	2.8	46.05	3.1	1735.	1.4
4056 FULTON	8.71	3.5	46.05	3.1	1735.	1.4
4057 GARRARD	8.03	3.2	46.05	3.1	1735.	1.4
4058 GRANT	6.92	2.8	46.05	3.1	1735.	1.4
4059 GRAVES	6.53	2.6	46.05	3.1	1735.	1.4
4060 GRAYSON	8.03	3.2	46.05	3.1	1735.	1.4
4061 GREENUP	7.62	3.0	46.05	3.1	1735.	1.4
4062 HANCOCK	6.92	2.8	46.05	3.1	1735.	1.4
4063 HARDIN	7.08	2.8	46.05	3.1	1735.	1.4
4064 HARLIN	8.03	3.2	46.05	3.1	1735.	1.4
4065 HARRISON	8.03	3.2	46.05	3.1	1735.	1.4
4066 HART	6.92	2.8	46.05	3.1	1735.	1.4
4067 HENRY	6.92	2.8	46.05	3.1	1735.	1.4
4068 HICKMAN	6.92	2.8	46.05	3.1	1735.	1.4
4069 HOPKINS	7.76	3.1	46.05	3.1	1735.	1.4
4070 JACKSON	6.92	2.8	46.05	3.1	1735.	1.4
4071 JESSAMIN	8.15	3.3	46.05	3.1	1735.	1.4
4072 JOHNSON	7.62	3.0	46.05	3.1	1735.	1.4
4073 KNOTT	6.92	2.8	46.05	3.1	1735.	1.4
4074 KNOX	8.67	3.5	46.05	3.1	1735.	1.4
4075 LARNE	8.03	3.2	46.05	3.1	1735.	1.4
4076 LAUREL	8.03	3.2	46.05	3.1	1735.	1.4
4077 LAWRENCE	6.92	2.8	46.05	3.1	1735.	1.4
4078 LEE	6.92	2.8	46.05	3.1	1735.	1.4

TABLE 1C: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER OBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4079 LESLIE	6.92	2.8	46.05	3.1	1735.	1.4
4080 LETCHER	6.92	2.8	46.05	3.1	1735.	1.4
4081 LINCOLN	6.92	2.8	46.05	3.1	1735.	1.4
4082 LUGAN	6.81	2.7	46.05	3.1	1735.	1.4
4083 LYON	6.92	2.8	46.05	3.1	1735.	1.4
4084 MCCRACKE	8.45	3.4	46.05	3.1	1735.	1.4
4085 MCKEARY	6.92	2.8	46.05	3.1	1735.	1.4
4086 MADISON	7.35	2.9	46.05	3.1	1735.	1.4
4087 MAGOFFIN	6.92	2.8	46.05	3.1	1735.	1.4
4088 MARION	8.03	3.2	46.05	3.1	1735.	1.4
4089 MARTIN	6.92	2.8	46.05	3.1	1735.	1.4
4090 MENIFEE	6.92	2.8	46.05	3.1	1735.	1.4
4091 MERCER	8.03	3.2	46.05	3.1	1735.	1.4
4092 METCALFE	6.92	2.8	46.05	3.1	1735.	1.4
4093 MONROE	6.92	2.8	46.05	3.1	1735.	1.4
4094 MONTGOME	8.03	3.2	46.05	3.1	1735.	1.4
4095 MORGAN	6.92	2.8	46.05	3.1	1735.	1.4
4096 MUHLENBE	8.03	3.2	46.05	3.1	1735.	1.4
4097 NELSON	9.41	3.8	46.05	3.1	1735.	1.4
4098 NICHOLAS	6.92	2.8	46.05	3.1	1735.	1.4
4099 OHIO	8.03	3.2	46.05	3.1	1735.	1.4
4100 OLDHAM	6.42	2.8	46.05	3.1	1735.	1.4
4101 OWSLEY	6.92	2.8	46.05	3.1	1735.	1.4
4102 PENDLETO	10.50	4.2	46.05	3.1	1735.	1.4
4103 PERRY	6.92	2.8	46.05	3.1	1735.	1.4
4104 PIKE	7.61	3.0	46.05	3.1	1735.	1.4
4105 POWELL	6.92	2.8	46.05	3.1	1735.	1.4
4106 PULASKI	8.03	3.2	46.05	3.1	1735.	1.4
4107 ROBERTSO	6.92	2.8	46.05	3.1	1735.	1.4
4108 ROCKCAST	6.92	2.8	46.05	3.1	1735.	1.4
4109 ROWAN	8.03	3.2	46.05	3.1	1735.	1.4
4110 SHELBY	8.03	3.2	46.05	3.1	1735.	1.4
4111 SIMPSON	6.81	2.7	46.05	3.1	1735.	1.4
4112 SPENCER	6.92	2.8	46.05	3.1	1735.	1.4
4113 TAYLOR	6.92	2.8	46.05	3.1	1735.	1.4
4114 TODD	6.92	2.8	46.05	3.1	1735.	1.4
4115 WARREN	5.95	2.4	46.05	3.1	1735.	1.4
4116 WASHINGT	9.03	3.2	46.05	3.1	1735.	1.4
4117 WAYNE	6.53	2.6	46.05	3.1	1735.	1.4
4118 WHITLEY	8.54	3.4	46.05	3.1	1735.	1.4
4119 WOLFE	6.92	2.8	46.05	3.1	1735.	1.4
4120 WOODFORD	6.03	3.2	46.05	3.1	1735.	1.4

**TABLE 3A: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF KENTUCKY**

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
4001 BALLARD	5.	0.	27.	32.	0.
4002 BRACKEN	3.	0.	15.	18.	0.
4003 BRECKINR	8.	0.	45.	54.	0.
4004 BUTLER	8.	1.	33.	42.	0.
4005 CARLISLE	2.	0.	12.	14.	0.
4006 GALLATIN	2.	0.	9.	11.	0.
4007 GREENUP	54.	5.	94.	152.	0.
4008 HENDERSON	50.	11.	273.	334.	557.
4009 LEWIS	5.	0.	21.	26.	0.
4010 LIVINGST	4.	0.	16.	20.	675.
4011 MARSHALL	133.	183.	515.	832.	675.
4012 MASON	42.	25.	282.	349.	0.
4013 MCLEAN	5.	0.	29.	34.	0.
4014 MEADE	13.	0.	34.	47.	0.
4015 OWEN	3.	0.	18.	21.	0.
4016 RUSSEL	4.	0.	25.	30.	972.
4017 SCOTT	28.	6.	135.	170.	0.
4018 TRIGG	8.	1.	44.	53.	0.
4019 TRIMBLE	3.	0.	10.	13.	0.
4020 UNION	9.	1.	63.	72.	0.
4021 WEBSTER	9.	1.	45.	55.	404.
SUBTOTAL	397.	235.	1747.	2379.	3283.

TABLE 38: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
4022 BOONE	62.	9.	199.	270.	0.
4023 BOYD	228.	158.	964.	1350.	0.
4024 CAMPBELL	147.	18.	458.	623.	0.
4025 DAVIESS	194.	71.	906.	1170.	1149.
4026 FAYETTE	568.	234.	2528.	3330.	0.
4027 JEFFERSON	11578.	625.	4240.	16443.	0.
4028 KENTON	172.	13.	577.	762.	5653.
SUBTOTAL	12949.	1129.	9871.	23948.	6802.

TABLE 3C: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
4029 ADAIR	6.	0.	37.	43.	0.
4030 ALLEN	8.	1.	57.	66.	0.
4031 ANDERSON	15.	1.	65.	81.	0.
4032 BARREN	28.	2.	186.	216.	0.
4033 BATH	4.	0.	21.	25.	0.
4034 BELL	19.	1.	105.	124.	172.
4035 BOURBON	16.	1.	96.	113.	0.
4036 BOYLE	48.	5.	249.	303.	0.
4037 BREATHIT	4.	0.	18.	22.	0.
4038 BULLIT	20.	0.	41.	61.	0.
4039 CALDWELL	35.	4.	219.	257.	0.
4040 CALLOWAY	21.	1.	107.	129.	0.
4041 CARROLL	20.	3.	93.	116.	0.
4042 CARTER	8.	0.	35.	43.	0.
4043 CASEY	10.	0.	49.	59.	0.
4044 CHRISTIA	65.	3.	349.	417.	0.
4045 CLARK	43.	3.	216.	263.	1602.
4046 CLAY	5.	0.	26.	31.	0.
4047 CLINTON	2.	0.	14.	16.	0.
4048 CRITTEND	4.	0.	18.	22.	0.
4049 CUMBERLA	3.	0.	18.	21.	0.
4050 EDMONSON	4.	1.	12.	17.	0.
4051 ELLIOT	2.	1.	6.	9.	0.
4052 ESTILL	9.	0.	31.	40.	0.
4053 FLEMING	4.	0.	29.	33.	0.
4054 FLOYD	20.	0.	64.	84.	0.
4055 FRANKLIN	107.	38.	396.	541.	0.
4056 FULTON	5.	0.	48.	53.	0.
4057 GARRARD	4.	0.	25.	29.	0.
4058 GRANT	4.	0.	27.	31.	0.
4059 GRAVES	72.	32.	360.	464.	0.
4060 GRAYSON	10.	1.	60.	71.	0.
4061 GREENUP	23.	1.	128.	152.	0.
4062 HANCOCK	5.	0.	14.	19.	4009.
4063 HARDIN	107.	10.	343.	461.	0.
4064 HARLIN	23.	2.	98.	123.	0.
4065 HARRISON	20.	6.	125.	150.	0.
4066 HART	7.	1.	49.	57.	0.
4067 HENRY	5.	0.	29.	35.	0.
4068 HICKMAN	6.	1.	47.	54.	0.
4069 HOPKINS	30.	2.	137.	169.	0.
4070 JACKSON	4.	0.	13.	17.	0.
4071 JESSAMIN	10.	0.	40.	50.	0.
4072 JOHNSON	8.	0.	35.	43.	0.
4073 KNOTT	6.	0.	13.	19.	0.
4074 KNOX	19.	2.	62.	84.	0.
4075 LARNE	7.	0.	38.	45.	0.
4076 LAUREL	19.	2.	91.	112.	0.
4077 LAWRENCE	7.	0.	24.	31.	0.
4078 LEE	2.	0.	10.	12.	0.

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TABLE 3C: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
4079 LESLIE	4.	0.	11.	15.	0.
4080 LETCHER	9.	0.	33.	42.	0.
4081 LINCOLN	6.	0.	33.	39.	0.
4082 LOGAN	37.	14.	226.	278.	0.
4083 LYON	3.	0.	11.	14.	683.
4084 MCCRACKE	109.	29.	577.	715.	9875.
4085 MCCREARY	6.	0.	23.	29.	0.
4086 MADISON	51.	9.	257.	317.	0.
4087 MAGOFFIN	4.	1.	11.	15.	0.
4088 MARION	14.	3.	93.	110.	0.
4089 MARTIN	3.	0.	9.	12.	0.
4090 MENIFEE	1.	0.	6.	7.	0.
4091 MERCER	24.	5.	125.	154.	1325.
4092 METCALFE	3.	0.	18.	21.	0.
4093 MONROE	8.	1.	50.	59.	0.
4094 MONTGOME	25.	9.	160.	194.	0.
4095 MORGAN	3.	0.	15.	18.	0.
4096 MUHLENBE	20.	1.	82.	102.	13618.
4097 NELSON	38.	14.	209.	261.	0.
4098 NICHOLAS	3.	2.	15.	18.	0.
4099 OHIO	16.	20.	72.	90.	0.
4100 OLDHAM	9.	0.	34.	43.	0.
4101 OWSLEY	1.	0.	5.	6.	0.
4102 PENDLETO	8.	1.	37.	46.	0.
4103 PERRY	8.	0.	45.	53.	0.
4104 PIKE	97.	1.	38.	136.	0.
4105 POWELL	5.	0.	13.	18.	0.
4106 PULASKI	34.	6.	186.	226.	3309.
4107 ROBERTSD	1.	0.	4.	5.	0.
4108 ROCKCAST	5.	0.	22.	27.	0.
4109 ROWAN	14.	2.	63.	79.	0.
4110 SHELBY	18.	3.	141.	162.	0.
4111 SIMPSON	37.	16.	202.	254.	0.
4112 SPENCER	2.	0.	14.	16.	0.
4113 TAYLOR	8.	0.	42.	50.	0.
4114 TODD	8.	1.	58.	67.	0.
4115 WARREN	102.	31.	549.	682.	0.
4116 WASHINGT	9.	1.	57.	67.	0.
4117 WAYNE	7.	1.	47.	55.	0.
4118 WHITLEY	10.	1.	76.	87.	0.
4119 WOLFE	1.	0.	7.	8.	0.
4120 WOODFORD	46.	25.	237.	308.	334.
SUBTOTAL	1749.	303.	8286.	10338.	34927.
ORBES-TOTAL	15095.	1666.	19904.	36665.	45012.
STATE-TOTAL	15095.	1666.	19904.	36665.	45012.

TABLE 4A: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN DRBES PLANT COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4001 BALLARD	248.	5.	319.	572.
4002 BRACKEN	162.	0.	221.	383.
4003 BRECKINR	356.	16.	472.	844.
4004 BUTLER	201.	26.	202.	429.
4005 CARLISLE	126.	0.	172.	298.
4006 GALLATIN	92.	0.	128.	220.
4007 GREENUP	1069.	95.	446.	1610.
4008 HENDERSON	1138.	245.	1483.	2867.
4009 LEWIS	266.	0.	255.	521.
4010 LIVINGST	193.	1.	191.	385.
4011 MARSHALL	829.	1154.	769.	2753.
4012 MASON	578.	348.	932.	1858.
4013 MCLEAN	232.	9.	315.	556.
4014 MEADE	564.	0.	357.	921.
4015 OWEN	187.	0.	251.	438.
4016 RUSSEL	208.	7.	290.	505.
4017 SCOTT	574.	133.	661.	1368.
4018 TRIGG	211.	33.	294.	538.
4019 TRIMBLE	140.	0.	129.	269.
4020 UNION	397.	23.	678.	1098.
4021 WEBSTER	255.	35.	324.	615.
SUBTOTAL	8027.	2131.	8891.	19048.

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TABLE 4B: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4022 BOONE	1286.	193.	992.	2471.
4023 BOYD	2221.	1555.	2250.	6027.
4024 CAMPBELL	3334.	401.	2482.	6217.
4025 DAVIESS	2960.	1089.	3314.	7363.
4026 FAYETTE	7819.	3262.	8338.	19418.
4027 JEFFERSON	78056.	4261.	6849.	89165.
4028 KENTON	4920.	382.	3949.	9251.
SUBTOTAL	100596.	11142.	28175.	139912.

TABLE 4C: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4029 ADAIR	278.	4.	386.	668.
4030 ALLEN	280.	19.	465.	764.
4031 ANDERSON	334.	20.	354.	708.
4032 BARREN	780.	61.	1261.	2103.
4033 BATH	183.	2.	266.	451.
4034 BELL	602.	24.	811.	1437.
4035 BOURBON	585.	20.	839.	1444.
4036 BOYLE	855.	93.	1053.	2001.
4037 BREATHIT	200.	1.	197.	398.
4038 BULLIT	786.	0.	396.	1182.
4039 CALDWELL	495.	55.	747.	1297.
4040 CALLOWAY	815.	35.	1003.	1853.
4041 CARROLL	310.	43.	342.	696.
4042 CARTER	427.	0.	449.	876.
4043 CASEY	298.	9.	343.	650.
4044 CHRISTIA	1674.	85.	2147.	3907.
4045 CLARK	890.	70.	1061.	2022.
4046 CLAY	231.	2.	309.	541.
4047 CLINTON	139.	0.	202.	341.
4048 CRITTEND	205.	0.	259.	464.
4049 CUMBERLA	135.	5.	179.	319.
4050 EDMONSON	180.	24.	135.	339.
4051 ELLIOT	89.	23.	65.	177.
4052 ESTILL	292.	16.	243.	551.
4053 FLEMING	251.	0.	461.	712.
4054 FLOYD	761.	18.	598.	1377.
4055 FRANKLIN	1475.	523.	1301.	3299.
4056 FULTON	220.	21.	508.	748.
4057 GARRARD	236.	0.	375.	611.
4058 GRANT	264.	0.	398.	662.
4059 GRAVES	1008.	452.	1213.	2674.
4060 GRAYSON	365.	32.	507.	903.
4061 GREENUP	675.	36.	899.	1610.
4062 HANCOCK	310.	0.	200.	510.
4063 HARDIN	2716.	268.	2083.	5067.
4064 HARLIN	763.	55.	772.	1590.
4065 HARRISON	417.	118.	631.	166.
4066 HART	296.	22.	484.	802.
4067 HENRY	303.	23.	409.	735.
4068 HICKMAN	159.	36.	304.	499.
4069 HOPKINS	1122.	62.	1215.	2400.
4070 JACKSON	150.	3.	138.	291.
4071 JESSAMIN	514.	0.	488.	1002.
4072 JOHNSON	355.	8.	364.	727.
4073 KNOTT	231.	1.	120.	352.
4074 KNOX	446.	55.	341.	842.
4075 LARNE	277.	17.	354.	647.
4076 LAUREL	585.	60.	663.	1308.
4077 LAWRENCE	226.	12.	184.	422.
4078 LEE	103.	2.	122.	227.

TABLE 4C: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4079 LESLIE	161.	1.	112.	274.
4080 LETCHER	436.	0.	403.	839.
4081 LINCOLN	366.	0.	444.	810.
4082 LOGAN	637.	247.	928.	1813.
4083 LYON	157.	0.	114.	271.
4084 MCCRACKE	2144.	577.	2729.	5450.
4085 MCCREARY	184.	13.	176.	373.
4086 MADISON	1242.	218.	1483.	2944.
4087 MAGOFFIN	158.	24.	109.	291.
4088 MARION	376.	73.	596.	1045.
4089 MARTIN	140.	0.	86.	226.
4090 MENIFEE	79.	0.	71.	150.
4091 MERCER	526.	115.	662.	1303.
4092 METCALFE	154.	2.	252.	408.
4093 MONROE	233.	35.	364.	632.
4094 MONTGOME	446.	169.	685.	1300.
4095 MORGAN	161.	10.	193.	364.
4096 MUHLENBE	755.	32.	750.	1538.
4097 NELSON	640.	233.	841.	1714.
4098 NICHOLAS	117.	0.	156.	273.
4099 OHIO	488.	47.	524.	1060.
4100 OLDHAM	444.	0.	423.	867.
4101 OWSLEY	63.	0.	48.	111.
4102 PENDLETO	255.	22.	287.	564.
4103 PERRY	446.	23.	638.	1107.
4104 PIKE	2286.	24.	212.	2522.
4105 POWELL	179.	4.	110.	293.
4106 PULASKI	880.	149.	1153.	2182.
4107 ROBERTSO	45.	0.	57.	102.
4108 ROCKCAST	233.	3.	251.	487.
4109 ROWAN	391.	47.	412.	850.
4110 SHELBY	546.	102.	1018.	1666.
4111 SIMPSON	509.	217.	671.	1398.
4112 SPENCER	119.	0.	225.	344.
4113 TAYLOR	449.	0.	605.	1054.
4114 TODD	252.	37.	448.	737.
4115 WARREN	1869.	577.	2413.	4859.
4116 WASHINGT	247.	42.	396.	685.
4117 WAYNE	228.	31.	356.	615.
4118 WHITLEY	412.	30.	769.	1211.
4119 WOLFE	46.	0.	126.	172.
4120 WOODFORD	579.	315.	710.	1605.
SUBTOTAL	45372.	5856.	51653.	102881.
ORBES-TOTAL	153991.	19128.	88717.	261841.
STATE-TOTAL	153991.	19128.	88717.	261841.

TABLE 5A: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
4001 BALLARD	2473.	8276.	20.	7.	1.	8.	2.
4002 BRACKEN	1877.	7227.	14.	5.	0.	5.	0.
4003 BRECKINR	1972.	14789.	29.	10.	2.	12.	2.
4004 BUTLER	1572.	9723.	15.	3.	3.	6.	2.
4005 CARLISLE	1969.	5354.	11.	4.	0.	4.	3.
4006 GALLATIN	1844.	4134.	8.	2.	0.	4.	3.
4007 GREENUP	2236.	33192.	74.	2.	10.	16.	1.
4008 HENDER SO	2431.	36031.	88.	14.	28.	52.	1.
4009 LEWIS	1731.	12355.	21.	5.	0.	7.	1.
4010 LIVINGST	2037.	7596.	15.	4.	0.	5.	0.
4011 MARSHALL	2365.	20381.	48.	2.	100.	24.	7.
4012 MASON	2407.	17273.	42.	9.	37.	29.	39.
4013 MCLEAN	2116.	9062.	19.	6.	1.	9.	1.
4014 MEADE	2273.	18796.	43.	5.	0.	11.	1.
4015 OWEN	2094.	7476.	16.	6.	0.	6.	1.
4016 RUSSEL	1635.	10542.	17.	5.	1.	9.	5.
4017 SCOTT	2401.	17948.	43.	11.	15.	17.	5.
4018 TRIGG	1944.	8620.	17.	6.	4.	7.	1.
4019 TRIMBLE	2073.	5349.	11.	4.	0.	2.	0.
4020 UNION	2117.	15862.	34.	16.	3.	17.	13.
4021 WEBSTER	2069.	13282.	27.	6.	6.	14.	2.
SUBTOTAL		283288.	612.	132.	211.	264.	86.

TABLE 5B: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
4022 BOONE	2857.	32812.	94.	5.	21.	36.	10.
4023 BOYD	2769.	52376.	145.	2.	152.	83.	67.
4024 CAMPBELL	2788.	88501.	247.	2.	44.	104.	40.
4025 DAVIESS	2672.	79486.	212.	16.	117.	120.	79.
4026 FAYETTE	3151.	174323.	549.	21.	342.	315.	383.
4027 JEFFERSON	3162.	6950550.	21978.	7.	1792.	1099.	2014.
4028 KENTON	2865.	129440.	371.	2.	43.	169.	0.
SUBTOTAL		7507488.	23596.	54.	2511.	1926.	2593.

TABLE 5C: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
4029 ADAIR	1792.	13037.	23.	7.	1.	12.	2.
4030 ALLEN	1787.	12598.	23.	5.	2.	16.	3.
4031 ANDERSON	2527.	9358.	24.	5.	2.	10.	2.
4032 BARREN	2104.	28667.	60.	16.	7.	40.	40.
4033 BATH	1654.	9235.	15.	6.	0.	6.	0.
4034 BELL	1507.	31087.	47.	0.	3.	36.	13.
4035 BOURBON	2519.	18476.	47.	16.	2.	22.	10.
4036 BOYLE	2680.	21090.	57.	7.	9.	33.	35.
4037 BREATHIT	1119.	14221.	16.	0.	0.	9.	5.
4038 BULLIT	2223.	26090.	58.	4.	0.	13.	2.
4039 CALDWELL	2195.	13179.	29.	6.	5.	19.	4.
4040 CALLOWAY	2361.	27692.	65.	8.	4.	38.	43.
4041 CARROLL	2311.	8523.	20.	3.	4.	9.	21.
4042 CARTER	1741.	19850.	35.	4.	0.	17.	4.
4043 CASEY	1733.	12930.	22.	6.	1.	9.	0.
4044 CHRISTIA	2195.	56224.	123.	18.	9.	73.	48.
4045 CLARK	2567.	24090.	62.	10.	7.	32.	20.
4046 CLAY	1025.	18481.	19.	1.	0.	13.	4.
4047 CLINTON	1453.	8174.	12.	3.	0.	7.	1.
4048 CRITTEND	2005.	8493.	17.	4.	0.	9.	2.
4049 CUMBERLA	1603.	6850.	11.	3.	1.	5.	3.
4050 EDMONSON	1713.	8751.	15.	3.	3.	4.	0.
4051 ELLIOT	1325.	5933.	8.	1.	3.	2.	0.
4052 ESTILL	1753.	12752.	22.	1.	2.	9.	5.
4053 FLEMING	1956.	11336.	22.	9.	0.	14.	7.
4054 FLOYD	1632.	35889.	59.	0.	2.	26.	15.
4055 FRANKLIN	2970.	34481.	102.	5.	54.	47.	13.
4056 FULTON	1882.	10183.	19.	6.	3.	19.	13.
4057 GARRARD	2140.	9457.	20.	9.	0.	9.	11.
4058 GRANT	2244.	9999.	22.	6.	0.	14.	8.
4059 GRAVES	2315.	30939.	72.	12.	48.	37.	29.
4060 GRAYSON	1821.	16445.	30.	7.	4.	17.	8.
4061 GREENUP	2169.	10350.	22.	8.	2.	9.	7.
4062 HANCOCK	2460.	7080.	17.	3.	0.	4.	2.
4063 HARDIN	2574.	78421.	202.	11.	30.	78.	18.
4064 HARLIN	1593.	37370.	60.	0.	6.	34.	23.
4065 HARRISON	2274.	14158.	32.	10.	14.	17.	24.
4066 HART	1770.	13980.	25.	10.	3.	13.	22.
4067 HENRY	2399.	10910.	26.	11.	3.	10.	2.
4068 HICKMAN	2067.	6264.	13.	7.	4.	7.	12.
4069 HOPKINS	2332.	38197.	89.	6.	7.	50.	23.
4070 JACKSON	1184.	10005.	12.	2.	0.	4.	0.
4071 JESSAMIN	2353.	17430.	41.	7.	0.	15.	0.
4072 JOHNSON	1615.	17539.	28.	0.	1.	16.	17.
4073 KNOTT	1161.	14698.	17.	0.	0.	5.	0.
4074 KNOX	1386.	23689.	33.	1.	6.	14.	7.
4075 LARNE	2103.	10672.	22.	7.	2.	10.	1.
4076 LAUREL	1675.	27386.	46.	4.	7.	26.	36.
4077 LAWRENCE	1605.	10726.	17.	1.	1.	7.	5.
4078 LEE	1282.	6587.	8.	0.	0.	5.	4.

TABLE 5C: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	PER CAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
4079 LESLIE	1057.	11623.	12.	0.	0.	5.	0.
4080 LETCHER	1496.	23165.	35.	0.	0.	18.	13.
4081 LINCOLN	1814.	16663.	30.	11.	0.	10.	2.
4082 LOGAN	2178.	21793.	47.	14.	28.	26.	15.
4083 LYON	2178.	5562.	12.	2.	0.	3.	0.
4084 MCCRACKEN	2773.	58281.	162.	4.	65.	114.	124.
4085 MCCREARY	1136.	12548.	14.	0.	2.	8.	4.
4086 MADISON	2237.	42730.	96.	13.	25.	52.	41.
4087 MAGOFFIN	1266.	10443.	13.	0.	3.	5.	1.
4088 MARION	1797.	16714.	30.	10.	9.	18.	8.
4089 MARTIN	1128.	9377.	11.	0.	0.	4.	0.
4090 MENIFEE	1541.	4050.	6.	1.	0.	2.	0.
4091 MERCER	2520.	15960.	40.	10.	13.	19.	12.
4092 METCALFE	1609.	8177.	13.	6.	0.	6.	0.
4093 MONROE	1617.	11642.	19.	5.	4.	12.	5.
4094 MONTGOMERY	2188.	15364.	34.	7.	19.	23.	30.
4095 MORGAN	1399.	10019.	14.	2.	1.	7.	3.
4096 MUHLENBERG	2161.	27537.	60.	4.	4.	30.	36.
4097 NELSON	2012.	23447.	47.	12.	26.	23.	12.
4098 NICHOLAS	2047.	6508.	13.	5.	0.	5.	3.
4099 OHIO	2027.	16790.	38.	4.	6.	19.	4.
4100 OLDHAM	2413.	14687.	35.	7.	0.	13.	2.
4101 OWSLEY	979.	5023.	5.	1.	0.	2.	0.
4102 PENDLETON	2017.	9949.	20.	5.	3.	8.	3.
4103 PERRY	1495.	25714.	38.	0.	3.	31.	20.
4104 PIKE	1695.	61059.	103.	0.	2.	5.	32.
4105 POWELL	1728.	7704.	13.	1.	1.	4.	0.
4106 PULASKI	1954.	35234.	69.	9.	17.	43.	27.
4107 ROBERTSON	1688.	2223.	4.	2.	0.	1.	0.
4108 ROCKCASTLE	1534.	12245.	19.	3.	0.	8.	3.
4109 ROWAN	1770.	17010.	30.	1.	5.	17.	17.
4110 SHELBY	2401.	17948.	43.	18.	12.	28.	34.
4111 SIMPSON	2236.	18999.	42.	9.	27.	23.	24.
4112 SPENCER	1907.	5486.	10.	7.	0.	4.	0.
4113 TAYLOR	2168.	17138.	37.	7.	0.	21.	7.
4114 TODD	1942.	10823.	21.	10.	5.	11.	12.
4115 WARREN	2428.	57432.	139.	14.	64.	89.	61.
4116 WASHINGTON	1830.	10728.	20.	9.	5.	9.	7.
4117 WAYNE	1281.	14268.	18.	6.	4.	11.	2.
4118 WHITLEY	1576.	24145.	38.	7.	4.	34.	15.
4119 WOLFE	1083.	5669.	6.	6.	0.	4.	0.
4120 WOODFORD	2819.	14434.	41.	13.	33.	15.	1.
SUBTOTAL		1688285.	3387.	524.	653.	1744.	1156.
URBES-TOTAL		9479061.	27594.	710.	3374.	3935.	3835.
STATE-TOTAL		9479061.	27594.	710.	3374.	3935.	3835.

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TABLE 1001 IN THE STATE OF KENTUCKY FOR 1968 IN ORDER PLANT COUNTIES

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4001 BALLARD	8.58	3.4	49.04	3.3	2467.	2.1
4002 BRACKEN	8.58	3.4	49.04	3.3	2467.	2.1
4003 BRECKINR	8.58	3.4	49.04	3.3	2467.	2.1
4004 BUTLER	8.58	3.4	49.04	3.3	2467.	2.1
4005 CARLISLE	8.58	3.4	49.04	3.3	2467.	2.1
4006 GALLATIN	8.58	3.4	49.04	3.3	2467.	2.1
4007 GREENUP	8.58	3.4	49.04	3.3	2467.	2.1
4008 HENDERSON	8.25	3.3	49.04	3.3	2467.	2.1
4009 LEWIS	8.58	3.4	49.04	3.3	2467.	2.1
4010 LIVINGST	7.93	3.2	49.04	3.3	2467.	2.1
4011 MARSHALL	8.58	3.4	49.04	3.3	2467.	2.1
4012 MASON	8.55	3.4	49.04	3.3	2467.	2.1
4013 MCLEAN	8.58	3.4	49.04	3.3	2467.	2.1
4014 MEADE	8.58	3.4	49.04	3.3	2467.	2.1
4015 OWEN	8.58	3.4	49.04	3.3	2467.	2.1
4016 RUSSEL	8.58	3.4	49.04	3.3	2467.	2.1
4017 SCOTT	8.55	3.4	49.04	3.3	2467.	2.1
4018 TRIGG	8.58	3.4	49.04	3.3	2467.	2.1
4019 TRIMBLE	8.58	3.4	49.04	3.3	2467.	2.1
4020 UNION	8.55	3.4	49.04	3.3	2467.	2.1
4021 WEBSTER	9.67	3.9	49.04	3.3	2467.	2.1

TABLE 17B: ELECTRICITY PRICES FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4022 BOONE	6.69	2.7	49.04	3.3	2467.	2.1
4023 BOYD	8.25	3.3	49.04	3.3	2467.	2.1
4024 CAMPBELL	6.69	2.7	49.04	3.3	2467.	2.1
4025 DAVIESS	7.91	3.2	44.77	3.0	2659.	2.2
4026 FAYETTE	8.55	3.4	48.82	3.3	2597.	2.2
4027 JEFFERSON	6.52	2.6	47.10	3.1	2548.	2.1
4028 KENTON	6.69	2.7	55.48	3.7	2062.	1.7

TABLE 17C: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4029 ADAIR	8.55	3.4	49.04	3.3	2467.	2.1
4030 ALLEN	7.56	3.0	49.04	3.3	2467.	2.1
4031 ANDERSON	8.55	3.4	49.04	3.3	2467.	2.1
4032 BARREN	9.00	3.6	49.04	3.3	2467.	2.1
4033 BATH	7.37	2.9	49.04	3.3	2467.	2.1
4034 BELL	8.55	3.4	49.04	3.3	2467.	2.1
4035 BOURBON	8.55	3.4	49.04	3.3	2467.	2.1
4036 BOYLE	8.55	3.4	49.04	3.3	2467.	2.1
4037 BREATHIT	7.37	2.9	49.04	3.3	2467.	2.1
4038 BULLIT	6.52	2.6	49.04	3.3	2467.	2.1
4039 CALDWELL	9.00	3.6	49.04	3.3	2467.	2.1
4040 CALLOWAY	6.62	2.6	49.04	3.3	2467.	2.1
4041 CARROLL	8.55	3.4	49.04	3.3	2467.	2.1
4042 CARTER	7.37	2.9	49.04	3.3	2467.	2.1
4043 CASEY	7.37	2.9	49.04	3.3	2467.	2.1
4044 CHRISTIA	5.44	2.2	49.04	3.3	2467.	2.1
4045 CLARK	8.55	3.4	49.04	3.3	2467.	2.1
4046 CLAY	7.37	2.9	49.04	3.3	2467.	2.1
4047 CLINTON	7.37	2.9	49.04	3.3	2467.	2.1
4048 CRITTEND	8.55	3.4	49.04	3.3	2467.	2.1
4049 CUMBERLA	7.37	2.9	49.04	3.3	2467.	2.1
4050 EDMONSON	7.37	2.9	49.04	3.3	2467.	2.1
4051 ELLIOT	7.37	2.9	49.04	3.3	2467.	2.1
4052 ESTILL	8.55	3.4	49.04	3.3	2467.	2.1
4053 FLEMING	7.37	2.9	49.04	3.3	2467.	2.1
4054 FLOYD	8.12	3.2	49.04	3.3	2467.	2.1
4055 FRANKLIN	7.56	3.0	49.04	3.3	2467.	2.1
4056 FULTON	9.28	3.7	49.04	3.3	2467.	2.1
4057 GARRARD	8.55	3.4	49.04	3.3	2467.	2.1
4058 GRANT	7.37	2.9	49.04	3.3	2467.	2.1
4059 GRAVES	6.95	2.8	49.04	3.3	2467.	2.1
4060 GRAYSON	8.55	3.4	49.04	3.3	2467.	2.1
4061 GREENUP	8.12	3.2	49.04	3.3	2467.	2.1
4062 HANCOCK	7.37	2.9	49.04	3.3	2467.	2.1
4063 HARDIN	7.54	3.0	49.04	3.3	2467.	2.1
4064 HARLIN	8.55	3.4	49.04	3.3	2467.	2.1
4065 HARRISON	8.55	3.4	49.04	3.3	2467.	2.1
4066 HART	7.37	2.9	49.04	3.3	2467.	2.1
4067 HENRY	7.37	2.9	49.04	3.3	2467.	2.1
4068 HICKMAN	7.37	2.9	49.04	3.3	2467.	2.1
4069 HOPKINS	8.26	3.3	49.04	3.3	2467.	2.1
4070 JACKSON	7.37	2.9	49.04	3.3	2467.	2.1
4071 JESSAMIN	8.68	3.5	49.04	3.3	2467.	2.1
4072 JOHNSON	8.12	3.2	49.04	3.3	2467.	2.1
4073 KNOTT	7.37	2.9	49.04	3.3	2467.	2.1
4074 KNOX	9.23	3.7	49.04	3.3	2467.	2.1
4075 LARNE	8.55	3.4	49.04	3.3	2467.	2.1
4076 LAUREL	8.55	3.4	49.04	3.3	2467.	2.1
4077 LAWRENCE	7.37	2.9	49.04	3.3	2467.	2.1
4078 LEE	7.37	2.9	49.04	3.3	2467.	2.1

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TABLE 17C: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL			
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4079 LESLIE	7.37	2.9	49.04	3.0	2467.	1.1
4080 LETCHER	7.37	2.9	49.04	3.0	2467.	2.2
4081 LINCOLN	7.37	2.9	49.04	3.0	2467.	2.2
4082 LOGAN	7.25	2.9	49.04	3.0	2467.	2.2
4083 LYON	7.37	2.9	49.04	3.0	2467.	2.2
4084 MCCRACKE	9.00	2.6	49.04	3.0	2467.	2.1
4085 MCCREARY	7.37	2.9	49.04	3.0	2467.	2.2
4086 MADISON	7.83	2.3	49.04	3.0	2467.	2.2
4087 MAGOFFIN	7.37	2.9	49.04	3.0	2467.	2.2
4088 MARION	8.55	2.4	49.04	3.0	2467.	2.2
4089 MARTIN	7.37	2.9	49.04	3.0	2467.	2.2
4090 MENIFEE	7.37	2.9	49.04	3.0	2467.	2.2
4091 MERCER	8.55	2.3	49.04	3.0	2467.	2.2
4092 METCALFE	7.37	2.9	49.04	3.0	2467.	2.2
4093 MONROE	7.37	2.9	49.04	3.0	2467.	2.2
4094 MONTGOME	8.55	2.4	49.04	3.0	2467.	2.2
4095 MORGAN	7.37	2.9	49.04	3.0	2467.	2.2
4096 MUHLENBE	8.55	2.4	49.04	3.0	2467.	2.2
4097 NELSON	10.02	2.4	49.04	3.0	2467.	2.2
4098 NICHOLAS	7.37	2.9	49.04	3.0	2467.	2.2
4099 OHIO	8.55	2.3	49.04	3.0	2467.	2.2
4100 OLDHAM	7.37	2.9	49.04	3.0	2467.	2.2
4101 OWSLEY	7.37	2.9	49.04	3.0	2467.	2.2
4102 PFNDLETO	11.18	2.4	49.04	3.0	2467.	2.2
4103 PERRY	7.37	2.9	49.04	3.0	2467.	2.2
4104 PIKE	8.10	2.3	49.04	3.0	2467.	2.2
4105 POWELL	7.37	2.9	49.04	3.0	2467.	2.2
4106 PULASKI	8.55	2.4	49.04	3.0	2467.	2.2
4107 ROBERTSO	7.37	2.9	49.04	3.0	2467.	2.2
4108 ROCKCAST	7.37	2.9	49.04	3.0	2467.	2.2
4109 ROWAN	8.55	2.4	49.04	3.0	2467.	2.2
4110 SHELBY	8.55	2.4	49.04	3.0	2467.	2.2
4111 SIMPSON	7.25	2.9	49.04	3.0	2467.	2.2
4112 SPENCER	7.37	2.9	49.04	3.0	2467.	2.2
4113 TAYLOR	7.37	2.9	49.04	3.0	2467.	2.2
4114 TODD	7.37	2.9	49.04	3.0	2467.	2.2
4115 WARREN	6.34	2.9	49.04	3.0	2467.	2.2
4116 WASHINGT	8.55	2.4	49.04	3.0	2467.	2.2
4117 WAYNE	6.95	2.3	49.04	3.0	2467.	2.2
4118 WHITLEY	9.10	2.4	49.04	3.0	2467.	2.2
4119 WOLFE	7.37	2.9	49.04	3.0	2467.	2.2
4120 WOODFORD	8.55	2.4	49.04	3.0	2467.	2.1

TABLE 1B-A: ELECTRICITY PRICES FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4001 BALLARD	7.08	2.8	40.43	2.7	3076.	2.6
4002 BRACKEN	7.08	2.8	40.43	2.7	3076.	2.6
4003 BRECKINR	7.08	2.8	40.43	2.7	3076.	2.6
4004 BUTLER	7.08	2.8	40.43	2.7	3076.	2.6
4005 CARLISLE	7.08	2.8	40.43	2.7	3076.	2.6
4006 GALLATIN	7.08	2.8	40.43	2.7	3076.	2.6
4007 GREENUP	7.08	2.8	40.43	2.7	3076.	2.6
4008 HENDERSON	6.80	2.7	40.43	2.7	3076.	2.6
4009 LEWIS	7.08	2.8	40.43	2.7	3076.	2.6
4010 LIVINGST	6.54	2.6	40.43	2.7	3076.	2.6
4011 MARSHALL	7.08	2.8	40.43	2.7	3076.	2.6
4012 MASON	7.05	2.8	40.43	2.7	3076.	2.6
4013 MCLEAN	7.08	2.8	40.43	2.7	3076.	2.6
4014 MEADE	7.08	2.8	40.43	2.7	3076.	2.6
4015 OWEN	7.08	2.8	40.43	2.7	3076.	2.6
4016 RUSSEL	7.08	2.8	40.43	2.7	3076.	2.6
4017 SCOTT	7.05	2.8	40.43	2.7	3076.	2.6
4018 TRIGG	7.08	2.8	40.43	2.7	3076.	2.6
4019 TRIMBLE	7.08	2.8	40.43	2.7	3076.	2.6
4020 UNION	7.05	2.8	40.43	2.7	3076.	2.6
4021 WEBSTER	7.97	3.2	40.43	2.7	3076.	2.6

TABLE 18B: ELECTRICITY PRICES FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4022 BOONE	5.51	2.2	40.43	2.7	3076.	2.6
4023 BOYD	6.80	2.7	40.43	2.7	3076.	2.6
4024 CAMPBELL	5.51	2.2	40.43	2.7	3076.	2.6
4025 DAVIESS	6.52	2.6	36.91	2.5	3316.	2.8
4026 FAYETTE	7.05	2.8	40.25	2.7	3237.	2.7
4027 JEFFERSON	5.37	2.1	38.83	2.6	3177.	2.6
4028 KENTON	5.51	2.2	45.74	3.0	2571.	2.1

TABLE 18C: ELECTRICITY PRICES FOR YEAR 2000 IN ALL OTHER ORDERS COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4029 ADAIR	7.05	2.8	40.43	2.7	3076.	2.6
4030 ALLEN	6.23	2.5	40.43	2.7	3076.	2.6
4031 ANDERSON	7.05	2.8	40.43	2.7	3076.	2.6
4032 BARREN	7.42	3.0	40.43	2.7	3076.	2.6
4033 BATH	6.08	2.4	40.43	2.7	3076.	2.6
4034 BELL	7.05	2.8	40.43	2.7	3076.	2.6
4035 BOURBON	7.05	2.8	40.43	2.7	3076.	2.6
4036 BOYLE	7.05	2.8	40.43	2.7	3076.	2.6
4037 BREATHIT	6.08	2.4	40.43	2.7	3076.	2.6
4038 BULLITT	5.37	2.1	40.43	2.7	3076.	2.6
4039 CALDWELL	7.42	3.0	40.43	2.7	3076.	2.6
4040 CALLOWAY	5.46	2.2	40.43	2.7	3076.	2.6
4041 CARROLL	7.05	2.8	40.43	2.7	3076.	2.6
4042 CARTER	6.08	2.4	40.43	2.7	3076.	2.6
4043 CASEY	6.08	2.4	40.43	2.7	3076.	2.6
4044 CHRISTIA	4.49	1.8	40.43	2.7	3076.	2.6
4045 CLARK	7.05	2.8	40.43	2.7	3076.	2.6
4046 CLAY	6.08	2.4	40.43	2.7	3076.	2.6
4047 CLINTON	6.08	2.4	40.43	2.7	3076.	2.6
4048 CRITTEND	7.05	2.8	40.43	2.7	3076.	2.6
4049 CUMBERLA	6.08	2.4	40.43	2.7	3076.	2.6
4050 EDMONSON	6.08	2.4	40.43	2.7	3076.	2.6
4051 ELLIOT	6.08	2.4	40.43	2.7	3076.	2.6
4052 ESTILL	7.05	2.8	40.43	2.7	3076.	2.6
4053 FLEMING	6.08	2.4	40.43	2.7	3076.	2.6
4054 FLOYD	6.69	2.7	40.43	2.7	3076.	2.6
4055 FRANKLIN	6.23	2.5	40.43	2.7	3076.	2.6
4056 FULTON	7.65	3.1	40.43	2.7	3076.	2.6
4057 GARRARD	7.05	2.8	40.43	2.7	3076.	2.6
4058 GRANT	6.08	2.4	40.43	2.7	3076.	2.6
4059 GRAVES	5.73	2.3	40.43	2.7	3076.	2.6
4060 GRAYSON	7.05	2.8	40.43	2.7	3076.	2.6
4061 GREENUP	6.69	2.7	40.43	2.7	3076.	2.6
4062 HANCOCK	6.08	2.4	40.43	2.7	3076.	2.6
4063 HARDIN	6.22	2.5	40.43	2.7	3076.	2.6
4064 HARLIN	7.05	2.8	40.43	2.7	3076.	2.6
4065 HARRISON	7.05	2.8	40.43	2.7	3076.	2.6
4066 HART	6.08	2.4	40.43	2.7	3076.	2.6
4067 HENRY	6.08	2.4	40.43	2.7	3076.	2.6
4068 HICKMAN	6.08	2.4	40.43	2.7	3076.	2.6
4069 HOPKINS	6.81	2.7	40.43	2.7	3076.	2.6
4070 JACKSON	6.08	2.4	40.43	2.7	3076.	2.6
4071 JESSAMIN	7.16	2.9	40.43	2.7	3076.	2.6
4072 JOHNSON	6.69	2.7	40.43	2.7	3076.	2.6
4073 KNOTT	6.08	2.4	40.43	2.7	3076.	2.6
4074 KNOX	7.61	3.0	40.43	2.7	3076.	2.6
4075 LARNE	7.05	2.8	40.43	2.7	3076.	2.6
4076 LAUREL	7.05	2.8	40.43	2.7	3076.	2.6
4077 LAWRENCE	6.08	2.4	40.43	2.7	3076.	2.6
4078 LEE	6.08	2.4	40.43	2.7	3076.	2.6

TABLE 18C: ELECTRICITY PRICES FOR YEAR 2000 IN ALL OTHER DRAS COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
4079 LESLIE	6.08	2.4	40.43	2.7	3076.	2.6
4080 LETCHER	6.08	2.4	40.43	2.7	3076.	2.6
4081 LINCOLN	6.08	2.4	40.43	2.7	3076.	2.6
4082 LOGAN	5.98	2.4	40.43	2.7	3076.	2.6
4083 LYON	6.08	2.4	40.43	2.7	3076.	2.6
4084 MCCRACKE	7.42	3.0	40.43	2.7	3076.	2.6
4085 MCCREARY	6.08	2.4	40.43	2.7	3076.	2.6
4086 MADISON	6.45	2.6	40.43	2.7	3076.	2.6
4087 MAGOFFIN	6.08	2.4	40.43	2.7	3076.	2.6
4088 MARION	7.05	2.8	40.43	2.7	3076.	2.6
4089 MARTIN	6.08	2.4	40.43	2.7	3076.	2.6
4090 MENIFEE	6.08	2.4	40.43	2.7	3076.	2.6
4091 MERCER	7.05	2.8	40.43	2.7	3076.	2.6
4092 METCALFE	6.08	2.4	40.43	2.7	3076.	2.6
4093 MONROE	6.08	2.4	40.43	2.7	3076.	2.6
4094 MONTGOME	7.05	2.8	40.43	2.7	3076.	2.6
4095 MORGAN	6.08	2.4	40.43	2.7	3076.	2.6
4096 MUHLENBE	7.05	2.8	40.43	2.7	3076.	2.6
4097 NELSON	8.26	3.3	40.43	2.7	3076.	2.6
4098 NICHOLAS	6.08	2.4	40.43	2.7	3076.	2.6
4099 OHIO	7.05	2.8	40.43	2.7	3076.	2.6
4100 OLDHAM	6.08	2.4	40.43	2.7	3076.	2.6
4101 OWSLEY	6.08	2.4	40.43	2.7	3076.	2.6
4102 PENDLETO	9.22	3.7	40.43	2.7	3076.	2.6
4103 PERRY	6.08	2.4	40.43	2.7	3076.	2.6
4104 PIKE	6.68	2.7	40.43	2.7	3076.	2.6
4105 POWELL	6.08	2.4	40.43	2.7	3076.	2.6
4106 PULASKI	7.05	2.8	40.43	2.7	3076.	2.6
4107 ROBERTSO	6.08	2.4	40.43	2.7	3076.	2.6
4108 ROCKCAST	6.08	2.4	40.43	2.7	3076.	2.6
4109 ROWAN	7.05	2.8	40.43	2.7	3076.	2.6
4110 SHELBY	7.05	2.8	40.43	2.7	3076.	2.6
4111 SIMPSON	5.98	2.4	40.43	2.7	3076.	2.6
4112 SPENCER	6.06	2.4	40.43	2.7	3076.	2.6
4113 TAYLOR	6.08	2.4	40.43	2.7	3076.	2.6
4114 TODD	6.08	2.4	40.43	2.7	3076.	2.6
4115 WARREN	5.22	2.1	40.43	2.7	3076.	2.6
4116 WASHINGT	7.05	2.8	40.43	2.7	3076.	2.6
4117 WAYNE	5.73	2.3	40.43	2.7	3076.	2.6
4118 WHITLEY	7.50	3.0	40.43	2.7	3076.	2.6
4119 WOLFE	6.08	2.4	40.43	2.7	3076.	2.6
4120 WOODFORD	7.05	2.8	40.43	2.7	3076.	2.6

TABLE 21A: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ORBS PLANT COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
4001 BALLARD	11.	0.	41.	52.
4002 BRACKEN	6.	0.	23.	29.
4003 BRECKINR	18.	1.	69.	88.
4004 BUTLER	17.	2.	50.	69.
4005 CARLISLE	5.	0.	18.	23.
4006 GALLATIN	4.	0.	14.	18.
4007 GREENUP	119.	8.	142.	269.
4008 HENDERSON	111.	17.	415.	543.
4009 LEWIS	11.	0.	32.	43.
4010 LIVINGST	9.	0.	24.	33.
4011 MARSHALL	294.	294.	783.	1372.
4012 MASON	93.	40.	429.	562.
4013 MCLEAN	11.	0.	44.	55.
4014 MEADE	29.	0.	52.	80.
4015 OWEN	7.	0.	27.	34.
4016 RUSSEL	10.	0.	39.	49.
4017 SCOTT	62.	10.	206.	278.
4018 TRIGG	17.	2.	67.	86.
4019 TRIMBLE	6.	0.	16.	22.
4020 UNION	19.	1.	95.	116.
4021 WEBSTER	19.	2.	69.	90.
SUBTOTAL	877.	377.	2656.	3910.

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TABLE 21B: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
4022 BOONE	137.	15.	302.	454.
4023 BOYD	504.	254.	1465.	2223.
4024 CAMPBELL	326.	28.	696.	1050.
4025 DAVIESS	428.	113.	1377.	1918.
4026 FAYETTE	1255.	376.	3842.	5473.
4027 JEFFERSON	25587.	1004.	6444.	33035.
4028 KENTON	380.	21.	877.	1278.
SUBTOTAL	28617.	1811.	15003.	45432.

TABLE 21C: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
4029 ADAIR	14.	0.	56.	70.
4030 ALLEN	18.	1.	87.	106.
4031 ANDERSON	33.	3.	99.	133.
4032 BARREN	61.	0.	283.	348.
4033 BATH	8.	1.	33.	40.
4034 BELL	41.	1.	159.	201.
4035 BOURBON	36.	8.	146.	183.
4036 BOYLE	107.	0.	379.	494.
4037 BREATHIT	10.	0.	27.	36.
4038 BULLIT	43.	6.	63.	106.
4039 CALDWELL	77.	1.	332.	415.
4040 CALLOWAY	46.	4.	163.	211.
4041 CARROLL	45.	0.	141.	190.
4042 CARTER	18.	0.	53.	71.
4043 CASEY	22.	0.	74.	97.
4044 CHRISTIA	144.	5.	530.	679.
4045 CLARK	96.	5.	329.	430.
4046 CLAY	10.	0.	40.	50.
4047 CLINTON	5.	0.	21.	26.
4048 CRITTEND	8.	0.	28.	36.
4049 CUMBERLA	7.	0.	27.	34.
4050 EDMONSON	9.	1.	19.	29.
4051 ELLIOT	5.	1.	10.	15.
4052 ESTILL	20.	1.	47.	67.
4053 FLEMING	8.	0.	44.	53.
4054 FLOYD	43.	1.	97.	141.
4055 FRANKLIN	238.	61.	602.	900.
4056 FULTON	11.	1.	72.	84.
4057 GARRARD	8.	0.	38.	47.
4058 GRANT	9.	0.	41.	50.
4059 GRAVES	159.	51.	548.	758.
4060 GRAYSON	23.	1.	91.	115.
4061 GREENUP	51.	2.	194.	247.
4062 HANCOCK	11.	0.	21.	32.
4063 HARDIN	237.	17.	522.	776.
4064 HARLIN	51.	3.	149.	203.
4065 HARRISON	44.	9.	190.	242.
4066 HART	16.	1.	75.	92.
4067 HENRY	12.	1.	45.	57.
4068 HICKMAN	13.	2.	71.	86.
4069 HOPKINS	67.	3.	208.	278.
4070 JACKSON	8.	0.	20.	28.
4071 JESSAMIN	22.	0.	61.	83.
4072 JOHNSON	18.	0.	53.	71.
4073 KNOTT	13.	0.	20.	33.
4074 KNOX	43.	4.	94.	141.
4075 LARNE	16.	1.	57.	73.
4076 LAUREL	42.	3.	138.	184.
4077 LAWRENCE	15.	1.	36.	52.
4078 LEE	4.	0.	15.	20.

TABLE 21C: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
4079 LESLIE	8.	0.	17.	25.
4080 LETCHER	19.	0.	51.	70.
4081 LINCOLN	14.	0.	49.	64.
4082 LOGAN	82.	23.	344.	449.
4083 LYON	8.	0.	16.	24.
4084 MCCRACKE	240.	46.	878.	1164.
4085 MCCREARY	13.	1.	35.	48.
4086 MADISON	114.	14.	390.	518.
4087 MAGOFFIN	8.	1.	16.	25.
4088 MARION	31.	4.	142.	177.
4089 MARTIN	7.	0.	13.	21.
4090 MENIFEE	3.	0.	8.	12.
4091 MERCER	53.	8.	190.	251.
4092 METCALFE	6.	0.	28.	34.
4093 MONROE	17.	2.	76.	95.
4094 MONTGOMEE	55.	15.	243.	313.
4095 MORGAN	7.	0.	23.	29.
4096 MUHLENBE	43.	1.	124.	169.
4097 NELSON	84.	22.	318.	424.
4098 NICHOLAS	6.	0.	23.	29.
4099 OHIO	36.	2.	110.	148.
4100 OLOHAM	19.	0.	52.	71.
4101 OWSLEY	3.	0.	7.	10.
4102 PENDLETO	18.	1.	57.	75.
4103 PERRY	17.	1.	68.	86.
4104 PIKE	215.	2.	57.	274.
4105 POWELL	11.	0.	20.	31.
4106 PULASKI	75.	9.	283.	368.
4107 ROBERTSO	2.	0.	6.	8.
4108 ROCKCAST	11.	0.	33.	44.
4109 ROWAN	32.	3.	96.	130.
4110 SHELBY	40.	5.	214.	259.
4111 SIMPSON	81.	25.	307.	413.
4112 SPENCER	4.	0.	22.	26.
4113 TAYLOR	17.	0.	65.	81.
4114 TODD	17.	2.	88.	107.
4115 WARREN	225.	50.	834.	1110.
4116 WASHINGT	19.	2.	87.	109.
4117 WAYNE	16.	2.	71.	89.
4118 WHITLEY	22.	1.	116.	139.
4119 WOLFE	1.	0.	11.	13.
4120 WOODFORD	102.	40.	360.	502.
SUBTOTAL	3865.	486.	12595.	16946.
ORBES-TOTAL	33360.	2674.	30254.	66288.
STATE-TOTAL	33360.	2674.	30254.	66288.

TABLE 22A: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ORBES COUNTIES
IN THE STATE OF KENTUCKY

TABLE 22A: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
4001 BALLARD	28.	0.	62.	90.
4002 BRACKEN	15.	0.	35.	50.
4003 BRECKINR	46.	1.	104.	151.
4004 BUTLER	44.	3.	76.	123.
4005 CARLISLE	12.	0.	27.	39.
4006 GALLATIN	9.	0.	22.	31.
4007 GREENUP	298.	12.	215.	526.
4008 HENDERSON	279.	28.	628.	935.
4009 LEWIS	29.	0.	48.	77.
4010 LIVINGST	22.	0.	37.	59.
4011 MARSHALL	740.	481.	1185.	2406.
4012 MASON	233.	65.	649.	947.
4013 MCLEAN	28.	1.	66.	95.
4014 MEADE	72.	0.	78.	150.
4015 OWEN	18.	0.	41.	59.
4016 RUSSEL	24.	0.	59.	83.
4017 SCOTT	156.	17.	311.	485.
4018 TRIGG	42.	3.	102.	147.
4019 TRIMBLE	15.	0.	24.	39.
4020 UNION	49.	1.	144.	194.
4021 WEBSTER	48.	3.	104.	155.
SUBTOTAL	2205.	616.	4018.	6839.

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TABLE 22B: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
4022 BOONE	343.	24.	458.	825.
4023 BOYD	1267.	414.	2217.	3898.
4024 CAMPBELL	819.	46.	1054.	1918.
4025 DAVIESS	1077.	185.	2083.	3344.
4026 FAYETTE	3155.	614.	5813.	9583.
4027 JEFFERSON	64315.	1639.	9751.	75705.
4028 KENTON	956.	35.	1326.	2317.
SUBTOTAL	71931.	2957.	22702.	97590.

TABLE 22C: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
4029 ADAIR	35.	0.	84.	119.
4030 ALLEN	46.	1.	132.	179.
4031 ANDERSON	82.	126.	150.	235.
4032 BARREN	153.	602.	428.	587.
4033 BATH	20.	0.	49.	69.
4034 BELL	103.	0.	241.	346.
4035 BOURBON	89.	14.	222.	312.
4036 BOYLE	269.	100.	573.	856.
4037 BREATHIT	24.	0.	41.	65.
4038 BULLIT	109.	102.	95.	204.
4039 CALDWELL	193.	70.	503.	705.
4040 CALLOWAY	116.	1.	247.	365.
4041 CARROLL	112.	27.	214.	333.
4042 CARTER	44.	0.	81.	125.
4043 CASEY	56.	1.	112.	169.
4044 CHRISTIA	362.	99.	802.	1172.
4045 CLARK	241.	0.	497.	747.
4046 CLAY	26.	0.	60.	87.
4047 CLINTON	13.	0.	32.	44.
4048 CRITTEND	20.	0.	43.	62.
4049 CUMBERLA	18.	0.	41.	59.
4050 EDMONSON	22.	1.	29.	52.
4051 ELLIOT	12.	1.	15.	28.
4052 ESTILL	49.	1.	71.	121.
4053 FLEMING	21.	0.	67.	88.
4054 FLOYD	108.	1.	147.	257.
4055 FRANKLIN	597.	99.	910.	1606.
4056 FULTON	27.	1.	109.	138.
4057 GARRARD	21.	0.	58.	79.
4058 GRANT	24.	0.	62.	85.
4059 GRAVES	399.	83.	829.	1311.
4060 GRAYSON	57.	2.	138.	197.
4061 GREENUP	128.	3.	294.	425.
4062 HANCOCK	29.	0.	32.	60.
4063 HARDIN	596.	27.	790.	1413.
4064 HARLIN	129.	4.	226.	359.
4065 HARRISON	110.	15.	287.	411.
4066 HART	40.	1.	113.	155.
4067 HENRY	29.	1.	68.	98.
4068 HICKMAN	33.	3.	108.	144.
4069 HOPKINS	168.	4.	315.	488.
4070 JACKSON	19.	0.	31.	51.
4071 JESSAMIN	56.	0.	92.	148.
4072 JOHNSON	45.	0.	80.	125.
4073 KNOTT	33.	0.	30.	63.
4074 KNOX	108.	6.	143.	257.
4075 LARNE	39.	1.	86.	127.
4076 LAUREL	107.	15.	209.	321.
4077 LAWRENCE	39.	1.	54.	94.
4078 LEE	11.	0.	23.	34.

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TABLE 22C: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
4079 LESLIE	21.	0.	26.	47.
4080 LETCHER	48.	0.	77.	125.
4081 LINCOLN	36.	0.	75.	111.
4082 LOGAN	207.	37.	521.	765.
4083 LYON	19.	0.	24.	44.
4084 MCCRACKE	604.	76.	1328.	2008.
4085 MCCREARY	32.	1.	53.	85.
4086 MADISON	286.	23.	590.	900.
4087 MAGOFFIN	21.	1.	25.	47.
4088 MARION	78.	7.	214.	300.
4089 MARTIN	19.	0.	20.	39.
4090 MENIFEE	8.	0.	13.	21.
4091 MERCER	132.	13.	288.	433.
4092 METCALFE	15.	0.	42.	57.
4093 MONROE	43.	3.	115.	161.
4094 MONTGOME	139.	24.	367.	530.
4095 MORGAN	17.	0.	34.	51.
4096 MUHLENBE	109.	2.	187.	299.
4097 NELSON	212.	36.	481.	729.
4098 NICHOLAS	15.	0.	35.	50.
4099 OHIO	90.	4.	166.	260.
4100 OLDHAM	48.	0.	79.	127.
4101 OWSLEY	8.	0.	10.	19.
4102 PENDLETO	44.	2.	86.	132.
4103 PERRY	42.	1.	104.	147.
4104 PIKE	541.	3.	87.	630.
4105 POWELL	28.	0.	30.	58.
4106 PULASKI	189.	15.	428.	632.
4107 ROBERTSO	4.	0.	10.	14.
4108 ROCKCAST	27.	0.	51.	78.
4109 ROWAN	79.	4.	145.	229.
4110 SHELBY	100.	9.	323.	433.
4111 SIMPSON	204.	41.	464.	709.
4112 SPENCER	10.	0.	33.	43.
4113 TAYLOR	42.	0.	98.	140.
4114 TODD	44.	3.	133.	180.
4115 WARREN	566.	82.	1263.	1910.
4116 WASHINGT	47.	4.	131.	182.
4117 WAYNE	40.	3.	108.	150.
4118 WHITLEY	55.	2.	176.	232.
4119 WOLFE	4.	0.	17.	20.
4120 WOODFORD	257.	65.	545.	867.
SUBTOTAL	9716.	793.	19058.	29567.
ORBES-TOTAL	83850.	4365.	45779.	133994.
STATE-TOTAL	83850.	4365.	45779.	133994.

TABLE 23A: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4001 BALLARD	217.	6.	411.	634.
4002 BRACKEN	142.	0.	285.	427.
4003 BRECKINR	312.	21.	608.	940.
4004 BUTLER	176.	33.	260.	469.
4005 CARLISLE	110.	0.	222.	332.
4006 GALLATIN	80.	0.	165.	246.
4007 GREENUP	937.	119.	575.	1631.
4008 HENDERSON	997.	309.	1910.	3217.
4009 LEWIS	233.	0.	329.	562.
4010 LIVINGST	169.	1.	246.	416.
4011 MARSHALL	727.	1454.	991.	3172.
4012 MASON	506.	438.	1201.	2145.
4013 MCLEAN	204.	11.	405.	620.
4014 MEADE	494.	0.	460.	954.
4015 OWEN	164.	0.	323.	487.
4016 RUSSEL	182.	9.	373.	565.
4017 SCOTT	503.	167.	852.	1522.
4018 TRIGG	185.	42.	378.	605.
4019 TRIMBLE	122.	0.	167.	289.
4020 UNION	348.	29.	873.	1250.
4021 WEBSTER	224.	45.	417.	686.
SUBTOTAL	7031.	2685.	11451.	21167.

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TABLE 23B: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4022 BOONE	1127.	243.	1278.	2647.
4023 BOYD	1946.	1960.	2898.	6804.
4024 CAMPBELL	2921.	505.	3197.	6623.
4025 DAVIESS	2593.	1372.	4269.	8234.
4026 FAYETTE	6849.	4110.	10739.	21698.
4027 JEFFERSON	6837.	5366.	8821.	82566.
4028 KENTON	4310.	481.	5087.	9878.
SUBTOTAL	88122.	14039.	36289.	138449.

TABLE 23C: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4029 ADAIR	243.	5.	498.	746.
4030 ALLEN	245.	24.	599.	868.
4031 ANDERSON	293.	25.	456.	774.
4032 BARREN	684.	77.	1624.	2385.
4033 BATH	160.	2.	343.	505.
4034 BELL	528.	30.	1044.	1602.
4035 BOURBON	512.	25.	1081.	1618.
4036 BOYLE	749.	117.	1357.	2223.
4037 BREATHIT	176.	1.	253.	430.
4038 BULLIT	689.	0.	510.	1198.
4039 CALDWELL	433.	69.	962.	1465.
4040 CALLOWAY	714.	44.	1292.	2050.
4041 CARROLL	272.	54.	441.	767.
4042 CARTER	374.	0.	578.	952.
4043 CASEY	261.	11.	442.	714.
4044 CHRISTIA	1467.	108.	2766.	4340.
4045 CLARK	780.	89.	1367.	2236.
4046 CLAY	202.	2.	398.	602.
4047 CLINTON	122.	0.	260.	382.
4048 CRITTEND	180.	0.	333.	513.
4049 CUMBERLA	118.	6.	231.	355.
4050 EDMONSON	158.	30.	173.	362.
4051 ELLIOT	78.	29.	84.	191.
4052 ESTILL	256.	20.	313.	589.
4053 FLEMING	220.	0.	594.	814.
4054 FLOYD	667.	23.	770.	1460.
4055 FRANKLIN	1292.	659.	1676.	3627.
4056 FULTON	192.	26.	654.	872.
4057 GARRARD	207.	0.	483.	690.
4058 GRANT	231.	0.	513.	744.
4059 GRAVES	883.	570.	1563.	3016.
4060 GRAYSON	319.	40.	653.	1012.
4061 GREENUP	591.	46.	1158.	1795.
4062 HANCOCK	271.	0.	258.	529.
4063 HARDIN	2379.	337.	2683.	5400.
4064 HARLIN	668.	69.	994.	1732.
4065 HARRISON	366.	149.	812.	1327.
4066 HART	259.	27.	624.	910.
4067 HENRY	265.	29.	527.	821.
4068 HICKMAN	139.	46.	392.	576.
4069 HOPKINS	983.	79.	1566.	2627.
4070 JACKSON	132.	3.	178.	313.
4071 JESSAMIN	450.	0.	629.	1079.
4072 JOHNSON	311.	11.	468.	790.
4073 KNOTT	202.	1.	155.	358.
4074 KNOX	391.	69.	439.	899.
4075 LARNE	242.	21.	456.	719.
4076 LAUREL	512.	75.	854.	1442.
4077 LAWRENCE	198.	15.	237.	450.
4078 LEE	90.	2.	157.	250.

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TABLE 23C: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4079 LESLIE	141.	1.	145.	287.
4080 LETCHER	382.	0.	519.	901.
4081 LINCOLN	321.	0.	572.	892.
4082 LOGAN	558.	311.	1196.	2066.
4083 LYON	138.	0.	147.	284.
4084 MCCRACKE	1878.	727.	3514.	6120.
4085 MCCRARY	161.	16.	227.	404.
4086 MADISON	1088.	275.	1910.	3274.
4087 MAGOFFIN	139.	30.	140.	309.
4088 MARION	329.	92.	768.	1189.
4089 MARTIN	123.	0.	111.	233.
4090 MENIFEE	69.	0.	92.	161.
4091 MERCER	461.	144.	853.	1458.
4092 METCALFE	135.	3.	324.	462.
4093 MONROE	204.	44.	469.	717.
4094 MONTGOME	391.	213.	882.	1486.
4095 MORGAN	141.	13.	248.	402.
4096 MUHLENBE	662.	41.	966.	1669.
4097 NELSON	561.	293.	1083.	1937.
4098 NICHOLAS	102.	0.	201.	304.
4099 OHIO	428.	59.	675.	1163.
4100 OLDHAM	389.	0.	545.	934.
4101 OWSLEY	56.	0.	61.	117.
4102 PENDLETO	223.	28.	370.	621.
4103 PERRY	391.	29.	821.	1241.
4104 PIKE	2003.	30.	273.	2306.
4105 POWELL	157.	6.	141.	304.
4106 PULASKI	771.	188.	1485.	2444.
4107 ROBERTSO	40.	0.	73.	113.
4108 ROCKCAST	204.	4.	323.	531.
4109 ROWAN	342.	59.	531.	932.
4110 SHELBY	479.	128.	1311.	1918.
4111 SIMPSON	446.	274.	865.	1585.
4112 SPENCER	105.	0.	289.	394.
4113 TAYLOR	393.	0.	779.	1173.
4114 TODD	221.	47.	577.	844.
4115 WARREN	1637.	727.	3108.	5472.
4116 WASHINGT	216.	53.	510.	779.
4117 WAYNE	200.	39.	458.	697.
4118 WHITLEY	361.	38.	990.	1389.
4119 WOLFE	40.	0.	163.	203.
4120 WOODFORD	507.	397.	915.	1820.
SUBTOTAL	39746.	7378.	66529.	113652.
ORBES-TOTAL	134896.	24102.	114267.	273267.
STATE-TOTAL	134896.	24102.	114267.	273267.

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TABLE 24A: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN UNDERS PLANT COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4001 BALLARD	196.	9.	628.	833.
4002 BRACKEN	128.	0.	435.	563.
4003 BRECKINR	281.	30.	929.	1240.
4004 BUTLER	158.	49.	398.	605.
4005 CARLISLE	99.	0.	339.	438.
4006 GALLATIN	72.	0.	253.	325.
4007 GREENUP	845.	176.	878.	1899.
4008 HENDERSON	899.	458.	2919.	4276.
4009 LEWIS	210.	0.	503.	712.
4010 LIVINGST	153.	2.	375.	530.
4011 MARSHALL	655.	2155.	1514.	4324.
4012 MASON	456.	650.	1835.	2941.
4013 MCLEAN	184.	17.	619.	820.
4014 MEADE	446.	0.	702.	1148.
4015 OWEN	148.	0.	494.	642.
4016 RUSSEL	164.	14.	570.	748.
4017 SCOTT	453.	248.	1301.	2003.
4018 TRIGG	167.	62.	578.	806.
4019 TRIMBLE	110.	0.	254.	365.
4020 UNION	314.	43.	1334.	1691.
4021 WEBSTER	202.	66.	638.	906.
SUBTOTAL	6341.	3978.	17497.	27816.

TABLE 24B: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4022 BOONE	1016.	360.	1952.	3328.
4023 BOYD	1755.	2904.	4428.	9087.
4024 CAMPBELL	2634.	748.	4885.	8267.
4025 DAVIESS	2338.	2033.	6523.	10894.
4026 FAYETTE	6177.	6090.	16408.	28675.
4027 JEFFERSON	61664.	7954.	13478.	83097.
4028 KENTON	3887.	713.	7772.	12372.
SUBTOTAL	79470.	20802.	55448.	155720.

**TABLE 24C: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER URBED COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS**

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4029 ADAIR	219.	7.	760.	987.
4030 ALLEN	221.	36.	915.	1172.
4031 ANDERSON	264.	37.	697.	998.
4032 BARREN	616.	115.	2482.	3213.
4033 BATH	145.	3.	524.	672.
4034 BELL	476.	45.	1595.	2116.
4035 BOURBON	462.	38.	1652.	2151.
4036 BOYLE	675.	174.	2073.	2922.
4037 BREATHIT	158.	2.	387.	547.
4038 BULLIT	621.	0.	779.	1400.
4039 CALDWELL	391.	103.	1471.	1964.
4040 CALLOWAY	644.	65.	1974.	2683.
4041 CARROLL	245.	81.	674.	1000.
4042 CARTER	337.	0.	883.	1221.
4043 CASEY	235.	17.	675.	927.
4044 CHRISTIA	1323.	159.	4226.	5708.
4045 CLARK	703.	131.	2089.	2923.
4046 CLAY	182.	3.	608.	793.
4047 CLINTON	110.	0.	397.	507.
4048 CRITTEND	162.	0.	509.	671.
4049 CUMBERLA	106.	9.	353.	469.
4050 EDMONSON	142.	45.	265.	452.
4051 ELLIOT	70.	42.	128.	241.
4052 ESTILL	231.	29.	479.	739.
4053 FLEMING	198.	0.	908.	1106.
4054 FLOYD	601.	34.	1177.	1812.
4055 FRANKLIN	1165.	977.	2560.	4703.
4056 FULTON	174.	39.	999.	1211.
4057 GARRARD	187.	0.	737.	924.
4058 GRANT	208.	0.	783.	992.
4059 GRAVES	797.	845.	2388.	4029.
4060 GRAYSON	288.	59.	997.	1344.
4061 GREENUP	533.	68.	1770.	2370.
4062 HANCOCK	245.	0.	394.	639.
4063 HARDIN	2146.	499.	4100.	6745.
4064 HARLIN	603.	103.	1520.	2225.
4065 HARRISON	330.	220.	1241.	1791.
4066 HART	234.	40.	953.	1228.
4067 HENRY	239.	43.	805.	1088.
4068 HICKMAN	125.	67.	598.	791.
4069 HOPKINS	886.	117.	2392.	3395.
4070 JACKSON	119.	5.	272.	395.
4071 JESSAMIN	406.	0.	961.	1367.
4072 JOHNSON	280.	16.	716.	1012.
4073 KNOTT	182.	2.	237.	421.
4074 KNOX	353.	102.	671.	1126.
4075 LARNE	219.	31.	696.	946.
4076 LAUREL	462.	112.	1306.	1879.
4077 LAWRENCE	178.	23.	362.	563.
4078 LEE	82.	3.	240.	325.

TABLE 24C: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF KENTUCKY IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
4079 LESLIE	127.	2.	221.	350.
4080 LETCHER	344.	0.	793.	1138.
4081 LINCOLN	289.	0.	873.	1163.
4082 LOGAN	503.	462.	1827.	2792.
4083 LYON	124.	0.	224.	348.
4084 MCCRACKE	1694.	1078.	5370.	8141.
4085 MCCRARY	145.	24.	346.	516.
4086 MADISON	981.	408.	2919.	4308.
4087 MAGOFFIN	125.	45.	213.	384.
4088 MARION	297.	136.	1173.	1606.
4089 MARTIN	111.	0.	169.	280.
4090 MENIFEE	62.	0.	140.	202.
4091 MERCER	415.	214.	1304.	1933.
4092 METCALFE	121.	4.	496.	622.
4093 MONROE	184.	65.	717.	966.
4094 MONTGOME	353.	315.	1348.	2015.
4095 MORGAN	128.	19.	379.	525.
4096 MUHLENBE	597.	60.	1477.	2134.
4097 NELSON	506.	434.	1655.	2595.
4098 NICHOLAS	92.	0.	308.	400.
4099 OHIO	386.	88.	1032.	1506.
4100 OLDHAM	351.	0.	833.	1183.
4101 OWSLEY	50.	0.	94.	144.
4102 PENDLETO	201.	41.	565.	808.
4103 PERRY	352.	43.	1255.	1651.
4104 PIKE	1806.	44.	417.	2268.
4105 POWELL	141.	8.	216.	366.
4106 PULASKI	696.	278.	2268.	3242.
4107 ROBERTSO	36.	0.	112.	148.
4108 ROCKCAST	184.	6.	493.	684.
4109 ROWAN	309.	88.	811.	1208.
4110 SHELBY	432.	190.	2003.	2625.
4111 SIMPSON	402.	406.	1321.	2129.
4112 SPENCER	94.	0.	442.	536.
4113 TAYLOR	355.	0.	1191.	1545.
4114 TODD	199.	69.	881.	1150.
4115 WARREN	1476.	1077.	4749.	7303.
4116 WASHINGT	195.	79.	780.	1053.
4117 WAYNE	180.	58.	700.	938.
4118 WHITLEY	325.	57.	1513.	1895.
4119 WOLFE	36.	0.	249.	285.
4120 WOODFORD	458.	589.	1398.	2444.
SUBTOTAL	35844.	10933.	101653.	148429.
ORBES-TOTAL	121652.	35713.	174595.	331963.
STATE-TOTAL	121652.	35713.	174595.	331963.

APPENDIX E

OHIO

Sources for Tables No. III-B-

- 1 U.S. Federal Power Commission, Typical Electric Bills, 1974.
- 3 Drysdale, Frank R., and Calef, Charles E., The Energetics of the United States of America: An Atlas, (Brookhaven National Laboratory, 1976). Residential, commercial and industrial consumption was determined with the help of use factors as given in Eqs. (1), (2), and (3) in the text and related discussion.
- 4 Ibid.
- 5 U.S. Bureau of the Census, County and City Data Book, 1972 (U.S. Government Printing Office, 1973).
- 17 Growth rates for 1975-85 from Table III-B-16 applied to prices in Table III-B-1. Prices are in 1974 dollars.
- 18 Growth rates for 1975-2000 from Table III-B-16 applied to prices in Table III-B-1. Prices are in 1974 dollars.
- 21 Growth rates for 1975-85 from Table III-B-16 applied to quantities in Table III-B-3.
- 22 Growth rates for 1975-2000 from Table III-B-16 applied to quantities in Table III-B-3.
- 23 Growth rates for 1975-85 from Table III-B-16 applied to quantities in Table III-B-4.
- 24 Growth rates in 1975-2000 from Table III-B-16 applied to quantities in Table III-B-4.

TABLE 1A: ELECTRICITY PRICES FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1001 ATHENS	9.20	3.7	57.45	3.8	2172.	1.8
1002 BELMONT	8.30	3.3	57.45	3.8	2172.	1.8
1003 BROWN	8.60	3.4	57.45	3.8	2172.	1.8
1004 BUTLER	8.55	3.4	56.40	3.8	2014.	1.7
1005 CLARK	9.36	3.7	57.38	3.8	2078.	1.7
1006 CLERMONT	9.10	3.6	57.45	3.8	2172.	1.8
1007 FRANKLIN	8.52	3.4	52.06	3.5	2188.	1.8
1008 GALLIA	9.60	3.8	57.45	3.8	2172.	1.8
1009 HAMILTON	8.71	3.5	62.60	4.2	2251.	1.9
1010 LAWRENCE	8.54	3.4	57.45	3.8	2172.	1.8
1011 MAHONING	8.52	3.4	57.99	3.9	2078.	1.7
1012 MEIGS	9.43	3.8	57.45	3.8	2172.	1.8
1013 MIAMI	9.20	3.7	57.45	3.8	2172.	1.8
1014 MONROE	9.50	3.8	57.45	3.8	2172.	1.8
1015 MONTGOME	9.49	3.8	61.96	4.1	2432.	2.0
1016 MORGAN	8.68	3.5	57.45	3.8	2172.	1.8
1017 MUSKINGA	8.54	3.4	57.45	3.8	2172.	1.8
1018 PICKAWAY	9.20	3.7	57.45	3.8	2172.	1.8
1019 PIKE	9.60	3.8	57.45	3.8	2172.	1.8
1020 ROSS	8.54	3.4	57.45	3.8	2172.	1.8
1021 SCIOTO	8.54	3.4	57.45	3.8	2172.	1.8
1022 WARREN	8.87	3.5	57.45	3.8	2172.	1.8
1023 WASHINGT	8.68	3.5	57.45	3.8	2172.	1.8

TABLE 1B: ELECTRICITY PRICES FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1024 ALLEN	8.54	3.4	54.50	3.6	2205.	1.8
1025 DELAWARE	9.20	3.7	57.45	3.8	2172.	1.8
1026 GEauga	8.28	3.3	57.45	3.8	2172.	1.8
1027 GREENE	9.47	3.8	57.45	3.8	2172.	1.8
1028 JEFFERSON	8.54	3.4	57.45	3.8	2172.	1.8
1029 MEDINA	8.63	3.5	57.45	3.8	2172.	1.8
1030 PORTAGE	9.04	3.6	57.45	3.8	2172.	1.8
1031 PREBLE	9.48	3.8	57.45	3.8	2172.	1.8
1032 RICHLAND	8.16	3.3	57.38	3.8	2078.	1.7
1033 STARK	8.68	3.5	54.50	3.6	2205.	1.8
1034 SUMMIT	9.09	3.6	57.99	3.9	2078.	1.7
1035 TRUMBULL	8.47	3.4	57.38	3.8	2078.	1.7

TABLE 1C: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER OHIO COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/1250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1036 ADAMS	8.52	3.4	57.45	3.8	2172.	1.8
1037 ASHLAND	8.80	3.5	57.45	3.8	2172.	1.8
1038 ASHTABUL	8.28	3.3	57.45	3.8	2172.	1.8
1039 AUGLAIZE	7.64	3.1	57.45	3.8	2172.	1.8
1040 CARROLL	8.54	3.4	57.45	3.8	2172.	1.8
1041 CHAMPAIG	8.52	3.4	57.45	3.8	2172.	1.8
1042 CLINTON	8.64	3.5	57.45	3.8	2172.	1.8
1043 COLUMBIA	8.45	3.4	57.45	3.8	2172.	1.8
1044 COSHOCTO	8.54	3.4	57.45	3.8	2172.	1.8
1045 CRAWFORD	8.06	3.2	57.45	3.8	2172.	1.8
1046 DARKE	9.48	3.8	57.45	3.8	2172.	1.8
1047 FAIRFIELD	8.54	3.4	57.45	3.8	2172.	1.8
1048 FAYETTE	9.48	3.8	57.45	3.8	2172.	1.8
1049 GUERNSEY	8.54	3.4	57.45	3.8	2172.	1.8
1050 HARDIN	8.54	3.4	57.45	3.8	2172.	1.8
1051 HARRISON	8.54	3.4	57.45	3.8	2172.	1.8
1052 HIGHLAND	9.39	3.8	57.45	3.8	2172.	1.8
1053 HOCKING	8.54	3.4	57.45	3.8	2172.	1.8
1054 HOLMES	8.54	3.4	57.45	3.8	2172.	1.8
1055 JACKSON	7.40	3.0	57.45	3.8	2172.	1.8
1056 KNOX	8.54	3.4	57.45	3.8	2172.	1.8
1057 LICKING	8.70	3.5	57.45	3.8	2172.	1.8
1058 LOGAN	9.48	3.8	57.45	3.8	2172.	1.8
1059 MADISON	9.20	3.7	57.45	3.8	2172.	1.8
1060 MARION	8.40	3.4	57.45	3.8	2172.	1.8
1061 MERCER	9.04	3.6	57.45	3.8	2172.	1.8
1062 MORROW	7.80	3.1	57.45	3.8	2172.	1.8
1063 NOBLE	8.52	3.4	57.45	3.8	2172.	1.8
1064 PERRY	8.54	3.4	57.45	3.8	2172.	1.8
1065 SHELBY	9.48	3.8	57.45	3.8	2172.	1.8
1066 TUSCARAWAS	8.41	3.4	57.45	3.8	2172.	1.8
1067 UNION	9.48	3.8	57.45	3.8	2172.	1.8
1068 VINTON	8.52	3.4	57.45	3.8	2172.	1.8
1069 WAYNE	8.01	3.2	57.45	3.8	2172.	1.8
1070 WYANDOT	7.90	3.2	57.45	3.8	2172.	1.8

TABLE 1D: ELECTRICITY PRICES FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1071 CUYAHOGA	8.28	3.3	55.18	3.7	2386.	2.0
1072 DEFIANCE	8.75	3.5	57.45	3.8	2172.	1.8
1073 ERIE	8.93	3.6	57.45	3.8	2172.	1.8
1074 FULTON	8.95	3.6	57.45	3.8	2172.	1.8
1075 HANCOCK	8.54	3.4	57.45	3.8	2172.	1.8
1076 HENRY	8.98	3.6	57.45	3.8	2172.	1.8
1077 HURON	8.98	3.6	57.45	3.8	2172.	1.8
1078 LAKE	8.28	3.3	57.45	3.8	2172.	1.8
1079 LORAIN	8.13	3.3	57.38	3.8	2078.	1.7
1080 LUCAS	8.95	3.6	54.45	3.6	2172.	1.8
1081 OTTAWA	8.10	3.2	54.45	3.6	2172.	1.8
1082 PAULDING	8.54	3.4	54.45	3.6	2172.	1.8
1083 PUTNAM	8.54	3.4	54.45	3.6	2172.	1.8
1084 SANDUSKY	8.81	3.5	54.45	3.6	2172.	1.8
1085 SENECA	8.54	3.4	54.45	3.6	2172.	1.8
1086 VANWERT	8.54	3.4	54.45	3.6	2172.	1.8
1087 WILLIAMS	7.73	3.1	54.45	3.6	2172.	1.8
1088 WOOD	8.46	3.4	54.45	3.6	2172.	1.8

TABLE 3A: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
1001 ATHENS	72.	20.	132.	223.	1615.
1002 BELMONT	125.	35.	212.	372.	2815.
1003 BROWN	28.	3.	66.	97.	0.
1004 BUTLER	570.	457.	910.	1937.	373.
1005 CLARK	340.	213.	648.	1201.	218.
1006 CLERMONT	131.	5.	189.	325.	6788.
1007 FRANKLIN	1828.	878.	3349.	6054.	285.
1008 GALLIA	17.	1.	62.	80.	6183.
1009 HAMILTON	2636.	2658.	4806.	10100.	3111.
1010 LAWRENCE	98.	74.	181.	353.	0.
1011 MAHONING	706.	504.	1271.	2481.	0.
1012 MEIGS	11.	23.	28.	62.	0.
1013 MIAMI	247.	73.	469.	789.	0.
1014 MONROE	16.	0.	25.	41.	0.
1015 MONTGOME	1866.	1830.	3212.	6908.	4253.
1016 MORGAN	20.	12.	36.	67.	0.
1017 MUSKINGA	130.	77.	283.	490.	2171.
1018 PICKAWAY	73.	67.	176.	317.	840.
1019 PIKE	16.	0.	34.	50.	0.
1020 ROSS	121.	66.	290.	477.	0.
1021 SCIOTO	111.	60.	267.	439.	0.
1022 WARREN	141.	17.	175.	333.	0.
1023 WASHINGT	116.	106.	233.	455.	0.
SUBTOTAL	9419.	7179.	17052.	33651.	28652.

TABLE 38: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
1024 ALLEN	254.	238.	592.	1084.	128.
1025 DELAWARE	92.	56.	150.	298.	0.
1026 GEauga	159.	47.	139.	345.	0.
1027 GREENE	237.	32.	310.	579.	0.
1028 JEFFERSON	217.	189.	391.	797.	17369.
1029 MEDINA	168.	51.	235.	454.	0.
1030 PORTAGE	269.	107.	350.	726.	0.
1031 PREBLE	52.	12.	112.	175.	0.
1032 RICHLAND	357.	446.	682.	1485.	0.
1033 STARK	979.	962.	1807.	3747.	0.
1034 SUMMIT	1156.	253.	1929.	5539.	465.
1035 TRUMBULL	723.	917.	1126.	2766.	1229.
SUBTOTAL	4664.	5508.	7822.	17994.	19191.

TABLE 3C: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
1036 ADAMS	15.	1.	44.	60.	790.
1037 ASHLAND	89.	64.	191.	344.	0.
1038 ASHTABUL	219.	171.	416.	806.	2081.
1039 AUGLAIZE	75.	66.	201.	341.	0.
1040 CARROLL	32.	10.	56.	98.	0.
1041 CHAMPAIG	59.	44.	149.	252.	0.
1042 CLINTON	50.	34.	162.	247.	0.
1043 COLUMBIA	198.	103.	388.	689.	0.
1044 COSHOCTO	70.	72.	151.	293.	2874.
1045 CRAWFORD	124.	156.	274.	554.	0.
1046 DARKE	68.	22.	201.	292.	0.
1047 FAIRFIELD	150.	111.	286.	547.	0.
1048 FAYETTE	39.	30.	141.	210.	0.
1049 GUERNSEY	69.	50.	123.	241.	0.
1050 HARDIN	58.	57.	145.	259.	0.
1051 HARRISON	22.	4.	36.	62.	0.
1052 HIGHLAND	33.	11.	109.	153.	0.
1053 HOCKING	35.	29.	76.	140.	0.
1054 HOLMES	24.	9.	71.	104.	0.
1055 JACKSON	37.	22.	83.	143.	0.
1056 KNOX	82.	69.	196.	347.	0.
1057 LICKING	232.	193.	470.	896.	0.
1058 LOGAN	52.	26.	148.	226.	0.
1059 MADISON	35.	10.	112.	156.	0.
1060 MARION	147.	180.	350.	677.	0.
1061 MERCER	34.	53.	230.	317.	0.
1062 MORROW	34.	13.	61.	108.	0.
1063 NOBLE	2.	0.	26.	28.	0.
1064 PERRY	33.	7.	50.	90.	0.
1065 SHELBY	85.	96.	186.	367.	0.
1066 TUSCAWAW	149.	135.	337.	621.	0.
1067 UNION	49.	43.	127.	219.	0.
1068 VINTON	10.	1.	16.	27.	0.
1069 WAYNE	189.	147.	391.	727.	0.
1070 WYANDOT	30.	15.	101.	145.	0.
SUBTOTAL	2628.	2054.	6104.	10786.	5745.
ORBES-TOTAL	16711.	14741.	30978.	62431.	53588.

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TABLE 3D: ELECTRICITY CONSUMPTION FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH	GENERATED 1,000MWH
1071 CUYAHOGA	5225.	3600.	8727.	17552.	3465.
1072 DEFIAECE	85.	114.	224.	423.	0.
1073 ERIE	187.	163.	361.	711.	0.
1074 FULTON	56.	43.	204.	303.	0.
1075 HANCOCK	119.	54.	179.	452.	0.
1076 HENRY	64.	88.	238.	331.	0.
1077 HURON	101.	84.	734.	423.	0.
1078 LAKE	490.	253.	1071.	1477.	4087.
1079 LORAIN	655.	571.	2281.	2297.	5059.
1080 LUCAS	1258.	908.	146.	4447.	4277.
1081 OTTAWA	68.	37.	72.	251.	0.
1082 PAULDING	29.	14.	164.	115.	0.
1083 PUTNAM	52.	50.	303.	266.	0.
1084 SANDUSKY	136.	140.	322.	579.	0.
1085 SENECA	135.	172.	153.	630.	0.
1086 VANWERT	55.	47.	181.	255.	0.
1087 WILLIAMS	67.	58.	393.	306.	0.
1088 WOOD	200.	124.		717.	0.
SUBTOTAL	8982.	6519.	16035.	31535.	16888.
STATE-TOTAL	25693.	21260.	47013.	93966.	70476.

TABLE 4A: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1001 ATHENS	1583.	259.	1241.	3083.
1002 BELMONT	2701.	453.	1958.	5112.
1003 BROWN	730.	51.	732.	1513.
1004 BUTLER	9556.	4580.	6487.	20623.
1005 CLARK	6330.	2366.	5127.	13823.
1006 CLERMONT	3350.	84.	2052.	5486.
1007 FRANKLIN	35935.	10324.	28008.	74267.
1008 GALLIA	495.	23.	767.	1285.
1009 HAMILTON	46937.	28314.	36406.	111656.
1010 LAWRENCE	1725.	780.	1351.	3856.
1011 MAHONING	12523.	5354.	9595.	27472.
1012 MEIGS	305.	368.	312.	986.
1013 MIAMI	4200.	748.	3396.	8344.
1014 MONROE	428.	0.	291.	719.
1015 MONTGOME	30332.	17804.	22215.	70351.
1016 MORGAN	365.	129.	284.	777.
1017 MUSKINGA	2517.	900.	2341.	5757.
1018 PICKAWAY	1308.	716.	1335.	3359.
1019 PIKE	463.	0.	400.	863.
1020 ROSS	2159.	701.	2201.	5061.
1021 SCIOTO	2267.	736.	2311.	5314.
1022 WARREN	3259.	230.	1713.	5202.
1023 WASHINGT	1973.	1083.	1692.	4748.
SUBTOTAL	171438.	76001.	132216.	379657.

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TABLE 48: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1024 ALLEN	4452.	2498.	4418.	11368.
1025 DELAWARE	1665.	605.	1149.	3419.
1026 GEauga	2990.	524.	1112.	4625.
1027 GREENE	5440.	437.	3019.	8896.
1028 JEFFERSON	3652.	1906.	2805.	8362.
1029 MEDINA	3435.	623.	2048.	6106.
1030 PORTAGE	5127.	1218.	2833.	9178.
1031 PREBLE	1228.	163.	1122.	2513.
1032 RICHLAND	5532.	4132.	4491.	14156.
1033 STARK	16044.	9434.	12603.	38081.
1034 SUMMIT	19401.	24638.	13774.	57813.
1035 TRUMBULL	10684.	8101.	7075.	25860.
SUBTOTAL	79651.	54279.	56447.	190377.

TABLE 4C: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1036 ADAMS	406.	24.	518.	948.
1037 ASHLAND	1639.	708.	1500.	3847.
1038 ASHTABUL	3846.	1797.	3103.	8746.
1039 AUGLAIZE	1377.	726.	1576.	3680.
1040 CARROLL	688.	125.	507.	1320.
1041 CHAMPAIG	1122.	503.	1202.	2827.
1042 CLINTON	1042.	422.	1426.	2891.
1043 COLUMBIA	3883.	1207.	3231.	8321.
1044 COSHOCTO	1172.	724.	1073.	2969.
1045 CRAWFORD	1973.	1492.	1860.	5325.
1046 DARKE	1621.	317.	2032.	3970.
1047 FAIRFIELD	2663.	1182.	2170.	6015.
1048 FAYETTE	804.	367.	1245.	2416.
1049 GUERNSEY	1211.	523.	923.	2657.
1050 HARDIN	1014.	598.	1083.	2695.
1051 HARRISON	499.	59.	349.	907.
1052 HIGHLAND	807.	159.	1127.	2093.
1053 HOCKING	626.	308.	571.	1506.
1054 HOLMES	572.	122.	704.	1398.
1055 JACKSON	727.	261.	688.	1676.
1056 KNOX	1491.	751.	1512.	3754.
1057 LICKING	4066.	2026.	3501.	9593.
1058 LOGAN	1138.	332.	1367.	2837.
1059 MADISON	859.	144.	1181.	2185.
1060 MARION	2399.	1766.	2437.	6602.
1061 MERCER	740.	686.	2124.	3550.
1062 MORROW	700.	160.	535.	1396.
1063 NOBLE	66.	0.	417.	483.
1064 PERRY	728.	91.	477.	1296.
1065 SHELBY	1391.	943.	1297.	3630.
1066 TUSCAWAR	2623.	1416.	2524.	6563.
1067 UNION	901.	468.	992.	2362.
1068 VINTON	231.	19.	157.	408.
1069 WAYNE	3381.	1578.	2986.	7945.
1070 WYANDOT	667.	197.	969.	1833.
SUBTOTAL	49075.	22203.	49366.	120644.
ORBES-TOTAL	300163.	152482.	238028.	690678.

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TABLE 4D: NATURAL GAS CONSUMPTION FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1071 CUYAHOGA	88497.	36483.	62889.	187869.
1072 DEFIAKE	1388.	1116.	1560.	4064.
1073 ERIE	3197.	1665.	2630.	7493.
1074 FULTON	1170.	529.	1800.	3499.
1075 HANCOCK	2504.	683.	2503.	5690.
1076 HENRY	1053.	867.	1260.	3179.
1077 HURON	1822.	915.	1835.	4573.
1078 LAKE	9056.	2798.	5769.	17623.
1079 LORAIN	10792.	5630.	7514.	23935.
1080 LUCAS	23023.	9945.	17757.	50725.
1081 OTTAWA	1353.	438.	1233.	3024.
1082 PAULDING	609.	177.	653.	1438.
1083 PUTNAM	972.	562.	1314.	2849.
1084 SANDUSKY	2299.	1416.	2175.	5891.
1085 SENECA	2195.	1669.	2223.	6088.
1086 VANWERT	1042.	527.	1226.	2795.
1087 WILLIAMS	1239.	647.	1435.	3321.
1088 WOOD	3765.	1389.	3142.	8297.
SUBTOTAL	155976.	67456.	118920.	342353.
STATE-TOTAL	456139.	219938.	356948.	1033031.

TABLE 5A: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
1001 ATHENS	2292.	54889.	126.	2.	27.	62.	71.
1002 BELMONT	2628.	80917.	213.	6.	46.	95.	35.
1003 BROWN	2287.	26635.	61.	12.	6.	28.	10.
1004 BUTLER	3108.	226207.	703.	13.	436.	300.	374.
1005 CLARK	3078.	156946.	483.	22.	234.	234.	103.
1006 CLERMONT	2814.	95725.	269.	6.	9.	102.	26.
1007 FRANKLIN	3333.	833249.	2777.	13.	1033.	1406.	2045.
1008 GALLIA	2077.	25239.	52.	4.	3.	49.	13.
1009 HAMILTON	3389.	924018.	3131.	6.	2445.	1587.	5080.
1010 LAWRENCE	2275.	56868.	129.	3.	76.	64.	19.
1011 MAHONING	3101.	303424.	941.	8.	521.	464.	607.
1012 MEIGS	2010.	19799.	40.	4.	62.	23.	7.
1013 MIAMI	3174.	84342.	268.	22.	62.	120.	60.
1014 MONROE	2222.	15739.	35.	3.	0.	13.	2.
1015 MONTGOME	3624.	606148.	2197.	13.	1669.	1042.	1290.
1016 MORGAN	2247.	12375.	28.	2.	13.	12.	3.
1017 MUSKINGA	2513.	77826.	196.	8.	91.	112.	101.
1018 PICKAWAY	2482.	40071.	99.	24.	71.	43.	18.
1019 PIKE	2029.	19114.	39.	4.	0.	18.	4.
1020 ROSS	2328.	76951.	179.	5.	75.	115.	41.
1021 SCIOTO	2328.	76951.	179.	5.	75.	115.	58.
1022 WARREN	3003.	84925.	255.	12.	23.	76.	24.
1023 WASHINGT	2573.	57160.	147.	5.	105.	78.	45.
SUBTOTAL		3955518.	12547.	202.	7079.	6158.	10034.

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TABLE 5B: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN OTHER DRBES SMSA COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
1024 ALLEN	3030.	111144.	337.	16.	245.	203.	252.
1025 DELAWARE	2918.	42908.	125.	12.	59.	45.	21.
1026 GEauga	3517.	62977.	221.	5.	50.	49.	14.
1027 GREENE	3412.	125057.	427.	20.	44.	136.	73.
1028 JEFFERSO	2809.	96193.	270.	2.	182.	134.	63.
1029 MEDINA	3197.	82717.	264.	11.	62.	93.	63.
1030 PORTAGE	3075.	125868.	387.	10.	119.	130.	37.
1031 PREBLE	2878.	34719.	100.	21.	17.	39.	21.
1032 RICHLAND	3068.	129997.	399.	11.	386.	201.	109.
1033 STARK	3165.	372210.	1178.	17.	897.	590.	477.
1034 SUMMIT	3439.	553371.	1903.	9.	3128.	876.	1669.
1035 TRUMBULL	3241.	232579.	754.	7.	740.	320.	238.
SUBTOTAL		1969740.	6365.	141.	5929.	2816.	3036.

TABLE 5C: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	PERCAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
1036 ADAMS	1841.	18957.	35.	9.	3.	21.	4.
1037 ASHLAND	2897.	43303.	125.	14.	70.	62.	25.
1038 ASHTABUL	2938.	98237.	289.	13.	174.	140.	38.
1039 AUGLAIZE	2759.	38602.	107.	21.	73.	58.	46.
1040 CARROLL	2506.	21579.	54.	5.	13.	21.	5.
1041 CHAMPAIG	2859.	30491.	87.	22.	51.	40.	0.
1042 CLINTON	2672.	31464.	84.	20.	44.	55.	37.
1043 COLUMBIA	2777.	108310.	301.	13.	121.	151.	47.
1044 COSHOCTO	2601.	33486.	87.	9.	70.	43.	22.
1045 CRAWFORD	2867.	50364.	144.	17.	141.	72.	38.
1046 DARKE	2741.	49141.	135.	38.	34.	72.	67.
1047 FAIRFIELD	2740.	73301.	201.	17.	115.	91.	60.
1048 FAYETTE	2563.	25461.	65.	21.	39.	45.	34.
1049 GUERNSEY	2412.	37665.	91.	4.	51.	42.	13.
1050 HARDIN	2500.	30813.	77.	19.	59.	35.	33.
1051 HARRISON	2329.	17013.	40.	3.	6.	15.	7.
1052 HIGHLAND	2340.	28996.	68.	18.	17.	44.	24.
1053 HOCKING	2333.	20322.	47.	1.	30.	27.	8.
1054 HOLMES	2053.	23024.	47.	18.	13.	21.	13.
1055 JACKSON	2083.	27174.	57.	3.	26.	32.	12.
1056 KNOX	2729.	41795.	114.	14.	74.	62.	18.
1057 LICKING	2836.	107799.	306.	16.	197.	156.	35.
1058 LOGAN	2631.	35072.	92.	16.	35.	57.	113.
1059 MADISON	2564.	28318.	73.	23.	16.	43.	22.
1060 MARION	2743.	64724.	178.	18.	169.	101.	57.
1061 MERCER	2595.	19799.	51.	35.	62.	62.	44.
1062 MORROW	2562.	21348.	55.	10.	16.	17.	4.
1063 NOBLE	2170.	10428.	23.	2.	0.	92.	1.
1064 PERRY	2089.	27434.	57.	4.	9.	21.	4.
1065 SHELBY	2721.	37748.	103.	20.	90.	43.	32.
1066 TUSCAHAW	2569.	77211.	198.	12.	139.	113.	62.
1067 UNION	2921.	23786.	69.	17.	47.	33.	7.
1068 VINTON	1960.	9420.	18.	2.	2.	7.	0.
1069 WAYNE	2941.	87123.	256.	34.	155.	115.	66.
1070 WYANDOT	2533.	21826.	55.	15.	21.	37.	12.
SUBTOTAL		1421534.	3789.	521.	2182.	2045.	1012.
ORBES-TOTAL		7346792.	22702.	864.	15190.	11018.	14082.

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TABLE 5D: OTHER ECONOMIC VARIABLES FOR YEAR 1974 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	PER CAPITA INCOME (DOLLARS)	POPULATION	PERSONAL INCOME (MILLIONS)	FARM SHIPMENTS (MILLIONS)	VALUE ADDED MANUFACTURING (MILLIONS)	RETAIL SALES (MILLIONS)	WHOLESALE SALES (MILLIONS)
1071 CUYAHOGA	3692.	1721300.	6355.	9.	3391.	2952.	7488.
1072 DEFiance	2788.	36949.	103.	12.	107.	64.	39.
1073 ERIE	3140.	75909.	238.	9.	161.	120.	99.
1074 FULTON	2871.	33071.	95.	35.	56.	61.	76.
1075 HANCOCK	3259.	61217.	200.	23.	70.	107.	126.
1076 HENRY	2902.	27058.	79.	25.	84.	36.	46.
1077 HURON	2810.	49587.	139.	17.	91.	75.	39.
1078 LAKE	3462.	197200.	683.	10.	273.	275.	86.
1079 LORAIN	3078.	256843.	791.	16.	534.	345.	87.
1080 LUCAS	3408.	494370.	1685.	12.	942.	840.	1230.
1081 OTTAWA	2847.	37099.	106.	9.	44.	54.	24.
1082 PAULDING	2519.	19329.	49.	12.	18.	22.	14.
1083 PUTNAM	2446.	31134.	76.	30.	57.	38.	27.
1084 SANDUSKY	2813.	60983.	172.	21.	137.	86.	41.
1085 SENECA	2667.	60696.	162.	20.	159.	87.	78.
1086 VANWERT	2778.	29194.	81.	17.	53.	45.	43.
1087 WILLIAMS	2851.	33669.	96.	18.	65.	55.	47.
1088 WOOD	3216.	89722.	289.	27.	138.	130.	60.
SUBTOTAL		3315330.	11396.	324.	6379.	5392.	9651.
STATE-TOTAL		10662122.	34098.	1188.	21569.	16410.	23733.

TABLE 17A: ELECTRICITY PRICES FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1001 ATHENS	9.80	3.9	61.18	4.1	3089.	2.6
1002 BELMONT	8.84	3.5	61.18	4.1	3089.	2.6
1003 BROWN	9.16	3.7	61.18	4.1	3089.	2.6
1004 BUTLER	9.11	3.6	60.07	4.0	2864.	2.4
1005 CLARK	9.97	4.0	61.11	4.1	2955.	2.5
1006 CLERMONT	9.69	3.9	61.18	4.1	3089.	2.6
1007 FRANKLIN	9.07	3.6	55.44	3.7	3111.	2.6
1008 GALLIA	10.22	4.1	61.18	4.1	3089.	2.6
1009 HAMILTON	9.28	3.7	66.67	4.4	3201.	2.7
1010 LAWRENCE	9.10	3.6	61.18	4.1	3089.	2.6
1011 MAHONING	9.07	3.6	61.76	4.1	2955.	2.5
1012 MEIGS	10.04	4.0	61.18	4.1	3089.	2.6
1013 MIAMI	9.80	3.9	61.18	4.1	3089.	2.6
1014 MONROE	10.12	4.0	61.18	4.1	3089.	2.6
1015 MONTGOME	10.11	4.0	65.99	4.4	3458.	2.9
1016 MORGAN	9.24	3.7	61.18	4.1	3089.	2.6
1017 MUSKINGA	9.10	3.6	61.18	4.1	3089.	2.6
1018 PICKAWAY	9.80	3.9	61.18	4.1	3089.	2.6
1019 PIKE	10.22	4.1	61.18	4.1	3089.	2.6
1020 ROSS	9.10	3.6	61.18	4.1	3089.	2.6
1021 SCIOTO	9.10	3.6	61.18	4.1	3089.	2.6
1022 WARREN	9.45	3.8	61.18	4.1	3089.	2.6
1023 WASHINGT	9.24	3.7	61.18	4.1	3089.	2.6

TABLE 17B: ELECTRICITY PRICES FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1024 ALLEN	9.10	3.6	58.04	3.9	3136.	2.6
1025 DELAWARE	9.80	3.9	61.18	4.1	3089.	2.6
1026 GEauga	8.82	3.5	61.18	4.1	3089.	2.6
1027 GREENE	10.09	4.0	61.18	4.1	3089.	2.6
1028 JEFFERSO	9.10	3.6	61.18	4.1	3089.	2.6
1029 MEDINA	9.19	3.7	61.18	4.1	3089.	2.6
1030 PORTAGE	9.63	3.9	61.18	4.1	3089.	2.6
1031 PREBLE	10.10	4.0	61.18	4.1	3089.	2.6
1032 RICHLAND	8.69	3.5	61.11	4.1	2955.	2.5
1033 STARK	9.24	3.7	58.04	3.9	3136.	2.6
1034 SUMMIT	9.68	3.9	61.76	4.1	2955.	2.5
1035 TRUMBULL	9.02	3.6	61.11	4.1	2955.	2.5

TABLE 17C: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1036 ADAMS	9.07	3.6	61.18	4.1	3089.	2.6
1037 ASHLAND	9.37	3.7	61.18	4.1	3089.	2.6
1038 ASHTABUL	8.82	3.5	61.18	4.1	3089.	2.6
1039 AUGLAIZE	8.14	3.3	61.18	4.1	3089.	2.6
1040 CARROLL	9.10	3.6	61.18	4.1	3089.	2.6
1041 CHAMPAIG	9.07	3.6	61.18	4.1	3089.	2.6
1042 CLINTON	9.20	3.7	61.18	4.1	3089.	2.6
1043 COLUMBIA	9.00	3.6	61.18	4.1	3089.	2.6
1044 COSHOCTO	9.10	3.6	61.18	4.1	3089.	2.6
1045 CRAWFORD	8.58	3.4	61.18	4.1	3089.	2.6
1046 DARKE	10.10	4.0	61.18	4.1	3089.	2.6
1047 FAIRFIELD	9.10	3.6	61.18	4.1	3089.	2.6
1048 FAYETTE	10.10	4.0	61.18	4.1	3089.	2.6
1049 GUERNSEY	9.10	3.6	61.18	4.1	3089.	2.6
1050 HARDIN	9.10	3.6	61.18	4.1	3089.	2.6
1051 HARRISON	9.10	3.6	61.18	4.1	3089.	2.6
1052 HIGHLAND	10.00	4.0	61.18	4.1	3089.	2.6
1053 HOCKING	9.10	3.6	61.18	4.1	3089.	2.6
1054 HOLMES	9.10	3.6	61.18	4.1	3089.	2.6
1055 JACKSON	7.88	3.0	61.18	4.1	3089.	2.6
1056 KNOX	9.10	3.6	61.18	4.1	3089.	2.6
1057 LICKING	9.27	3.7	61.18	4.1	3089.	2.6
1058 LOGAN	10.10	4.0	61.18	4.1	3089.	2.6
1059 MADISON	9.80	3.9	61.18	4.1	3089.	2.6
1060 MARION	8.95	3.6	61.18	4.1	3089.	2.6
1061 MERCER	9.63	3.9	61.18	4.1	3089.	2.6
1062 MORROW	8.31	3.3	61.18	4.1	3089.	2.6
1063 NOBLE	9.07	3.6	61.18	4.1	3089.	2.6
1064 PERRY	9.10	3.6	61.18	4.1	3089.	2.6
1065 SHELBY	10.10	4.0	61.18	4.1	3089.	2.6
1066 TUSCAWAR	8.96	3.6	61.18	4.1	3089.	2.6
1067 UNION	10.10	4.0	61.18	4.1	3089.	2.6
1068 VINTON	9.07	3.6	61.18	4.1	3089.	2.6
1069 WAYNE	8.53	3.4	61.18	4.1	3089.	2.6
1070 WYANDOT	8.41	3.4	61.18	4.1	3089.	2.6

TABLE 170: ELECTRICITY PRICES FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1071 CUYAHOGA	8.82	3.5	58.77	3.9	3089.	2.8
1072 DEFIAENCE	9.32	3.7	61.18	4.1	3089.	2.6
1073 ERIE	9.51	3.8	61.18	4.1	3089.	2.6
1074 FULTON	9.53	3.8	61.18	4.1	3089.	2.6
1075 HANCOCK	9.10	3.6	61.18	4.1	3089.	2.6
1076 HENRY	9.56	3.8	61.18	4.1	3089.	2.6
1077 HURON	9.56	3.8	61.18	4.1	3089.	2.6
1078 LAKE	8.82	3.5	61.18	4.1	3089.	2.6
1079 LORAIN	8.66	3.5	61.11	4.1	2955.	2.5
1080 LUCAS	9.53	3.8	57.99	3.9	3089.	2.6
1081 OTTAWA	8.63	3.5	57.99	3.9	3089.	2.6
1082 PAULDING	9.10	3.6	57.99	3.9	3089.	2.6
1083 PUTNAM	9.10	3.6	57.99	3.9	3089.	2.6
1084 SANDUSKY	9.38	3.8	57.99	3.9	3089.	2.6
1085 SENECA	9.10	3.6	57.99	3.9	3089.	2.6
1086 VANWERT	9.10	3.6	57.99	3.9	3089.	2.6
1087 WILLIAMS	8.23	3.3	57.99	3.9	3089.	2.6
1088 WOOD	9.01	3.6	57.99	3.9	3089.	2.6

TARIF 18A: ELECTRICITY PRICES FOR YEAR 2000 IN UNDERS PLANT CLASS
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1001 ATHENS	8.08	3.2	50.44	3.4	3851.	3.2
1002 BELMONT	7.29	2.9	50.44	3.4	3851.	3.2
1003 BROWN	7.55	3.0	50.44	3.4	3851.	3.2
1004 BUTLER	7.51	3.0	49.52	3.3	3571.	3.0
1005 CLARK	8.22	3.3	50.38	3.4	3684.	3.1
1006 CLERMONT	7.99	3.2	50.44	3.4	3851.	3.2
1007 FRANKLIN	7.48	3.0	45.71	3.0	3879.	3.2
1008 GALLIA	8.43	3.4	50.44	3.4	3851.	3.2
1009 HAMILTON	7.65	3.1	54.96	3.7	3991.	3.3
1010 LAWRENCE	7.50	3.0	50.44	3.4	3851.	3.2
1011 MAHONING	7.48	3.0	50.92	3.4	3684.	3.1
1012 MEIGS	8.28	3.3	50.44	3.4	3851.	3.2
1013 MIAMI	8.08	3.2	50.44	3.4	3851.	3.2
1014 MONROE	8.34	3.3	50.44	3.4	3851.	3.2
1015 MONTGOME	8.33	3.3	54.40	3.6	4312.	3.6
1016 MORGAN	7.62	3.0	50.44	3.4	3851.	3.2
1017 MUSKINGA	7.50	3.0	50.44	3.4	3851.	3.2
1018 PICKAWAY	8.08	3.2	50.44	3.4	3851.	3.2
1019 PIKE	8.43	3.4	50.44	3.4	3851.	3.2
1020 ROSS	7.50	3.0	50.44	3.4	3851.	3.2
1021 SCIOTO	7.50	3.0	50.44	3.4	3851.	3.2
1022 WARREN	7.79	3.1	50.44	3.4	3851.	3.2
1023 WASHINGT	7.62	3.0	50.44	3.4	3851.	3.2

TABLE 18B: ELECTRICITY PRICES FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL			
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1024 ALLEN	7.50	3.0	47.85	3.2	3909.	3.3
1025 DELAWARE	8.08	3.2	50.44	3.4	3851.	3.2
1026 GEauga	7.27	3.2	50.44	3.4	3851.	3.2
1027 GREENE	8.31	3.3	50.44	3.4	3851.	3.2
1028 JEFFERSON	7.50	3.0	50.44	3.4	3851.	3.2
1029 MEDINA	7.58	3.0	50.44	3.4	3851.	3.2
1030 PORTAGE	7.94	3.2	50.44	3.4	3851.	3.2
1031 PREBLE	8.32	3.3	50.44	3.4	3851.	3.2
1032 RICHLAND	7.16	3.0	50.38	3.4	3684.	3.1
1033 STARK	7.62	3.0	47.85	3.2	3909.	3.3
1034 SUMMIT	7.98	3.2	50.92	3.4	3684.	3.1
1035 TRUMBULL	7.44	3.0	50.38	3.4	3684.	3.1

TABLE 18C: ELECTRICITY PRICES FOR YEAR 2000 IN ALL OTHER OHIO COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1036 ADAMS	7.48	3.0	50.44	3.4	3851.	2
1037 ASHLAND	7.73	3.1	50.44	3.4	3851.	2
1038 ASHTABUL	7.27	3.9	50.44	3.4	3851.	2
1039 AUGLAIZE	6.71	3.7	50.44	3.4	3851.	2
1040 CARROLL	7.50	3.0	50.44	3.4	3851.	2
1041 CHAMPAIG	7.48	3.0	50.44	3.4	3851.	2
1042 CLINTON	7.59	3.0	50.44	3.4	3851.	2
1043 COLUMBIA	7.42	3.0	50.44	3.4	3851.	2
1044 COSHOCTO	7.50	3.0	50.44	3.4	3851.	2
1045 CRAWFORD	7.08	3.0	50.44	3.4	3851.	2
1046 DARKE	8.32	3.2	50.44	3.4	3851.	2
1047 FAIRFIELD	7.50	3.2	50.44	3.4	3851.	2
1048 FAYETTE	8.32	3.2	50.44	3.4	3851.	2
1049 GUERNSEY	7.50	3.0	50.44	3.4	3851.	2
1050 HARDIN	7.50	3.0	50.44	3.4	3851.	2
1051 HARRISON	7.50	3.0	50.44	3.4	3851.	2
1052 HIGHLAND	8.24	3.2	50.44	3.4	3851.	2
1053 HOCKING	7.50	3.0	50.44	3.4	3851.	2
1054 HOLMES	7.50	3.0	50.44	3.4	3851.	2
1055 JACKSON	6.50	3.0	50.44	3.4	3851.	2
1056 KNOX	7.50	3.0	50.44	3.4	3851.	2
1057 LICKING	7.64	3.1	50.44	3.4	3851.	2
1058 LOGAN	8.32	3.2	50.44	3.4	3851.	2
1059 MADISON	8.08	3.2	50.44	3.4	3851.	2
1060 MARION	7.38	3.0	50.44	3.4	3851.	2
1061 MERCER	7.94	3.0	50.44	3.4	3851.	2
1062 MORROW	6.85	3.0	50.44	3.4	3851.	2
1063 NOBLE	7.48	3.0	50.44	3.4	3851.	2
1064 PERRY	7.50	3.0	50.44	3.4	3851.	2
1065 SHELBY	8.32	3.3	50.44	3.4	3851.	2
1066 TUSCARAW	7.38	3.0	50.44	3.4	3851.	2
1067 UNION	8.32	3.3	50.44	3.4	3851.	2
1068 VINTON	7.48	3.0	50.44	3.4	3851.	2
1069 WAYNE	7.03	2.8	50.44	3.4	3851.	2
1070 WYANDOT	6.94	2.8	50.44	3.4	3851.	2

TABLE 18D: ELECTRICITY PRICES FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL		COMMERCIAL		INDUSTRIAL	
	\$/250KWH	C/KWH	\$/1500KWH	C/KWH	\$/120,000KWH	C/KWH
1071 CUYAHOGA	7.27	2.9	48.45	3.2	4230.	3.5
1072 DEFiance	7.68	3.1	50.44	3.4	3851.	3.2
1073 ERIE	7.84	3.1	50.44	3.4	3851.	3.0
1074 FULTON	7.86	3.1	50.44	3.4	3851.	3.0
1075 HANCOCK	7.50	3.0	50.44	3.4	3851.	3.0
1076 HENRY	7.88	3.2	50.44	3.4	3851.	3.0
1077 HURON	7.88	3.2	50.44	3.4	3851.	3.0
1078 LAKE	7.27	2.9	50.44	3.4	3851.	3.0
1079 LORAIN	7.14	2.9	50.38	3.4	3684.	3.0
1080 LUCAS	7.86	3.1	47.81	3.2	3851.	3.0
1081 OTTAWA	7.11	2.8	47.81	3.1	3851.	3.0
1082 PAULDING	7.50	3.0	47.81	3.1	3851.	3.0
1083 PUTNAM	7.50	3.0	47.81	3.1	3851.	3.0
1084 SANDUSKY	7.74	3.1	47.81	3.1	3851.	3.0
1085 SENECA	7.50	3.0	47.81	3.1	3851.	3.0
1086 VANWERT	7.50	3.0	47.81	3.1	3851.	3.0
1087 WILLIAMS	6.79	2.7	47.81	3.1	3851.	3.0
1088 WOOD	7.43	3.0	47.81	3.1	3851.	3.0

TABLE 21A: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
1001 ATHENS	158.	31.	200.	390.
1002 BELMONT	275.	56.	323.	654.
1003 BROWN	62.	5.	100.	167.
1004 BUTLER	1260.	733.	1383.	3377.
1005 CLARK	752.	341.	985.	2078.
1006 CLERMONT	289.	9.	287.	585.
1007 FRANKLIN	4040.	1409.	5090.	10538.
1008 GALLIA	37.	2.	94.	133.
1009 HAMILTON	5826.	4265.	7305.	17397.
1010 LAWRENCE	217.	119.	275.	611.
1011 MAHONING	1560.	809.	1932.	4301.
1012 MEIGS	25.	37.	42.	104.
1013 MIAMI	545.	118.	713.	1376.
1014 MONROE	35.	0.	38.	73.
1015 MONTGOME	4124.	2937.	4882.	11943.
1016 MORGAN	43.	19.	54.	116.
1017 MUSKINGA	286.	124.	430.	841.
1018 PICKAWAY	162.	108.	268.	538.
1019 PIKE	36.	0.	51.	87.
1020 ROSS	268.	105.	441.	814.
1021 SCIOTO	246.	97.	406.	749.
1022 WARREN	313.	27.	266.	605.
1023 WASHINGT	256.	170.	354.	780.
SUBTOTAL	20817.	11523.	25920.	58259.

TABLE 21B: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
1024 ALLEN	561.	382.	900.	1843.
1025 DELAWARE	204.	90.	227.	521.
1026 GEauga	352.	75.	212.	638.
1027 GREENE	525.	51.	471.	1047.
1028 JEFFERSO	479.	303.	595.	1377.
1029 MEDINA	371.	82.	358.	810.
1030 PORTAGE	595.	172.	532.	1298.
1031 PREBLE	115.	19.	170.	303.
1032 RICHLAND	790.	716.	1036.	2542.
1033 STARK	2163.	1543.	2746.	6452.
1034 SUMMIT	2555.	3937.	2932.	9424.
1035 TRUMBULL	1599.	1471.	1711.	4781.
SUBTOTAL	10307.	8841.	11889.	31037.

TABLE 21C: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
1036 ADAMS	32.	2.	67.	101.
1037 ASHLAND	196.	103.	290.	590.
1038 ASHTABUL	484.	275.	632.	1391.
1039 AUGLAIZE	165.	106.	305.	575.
1040 CARROLL	71.	16.	85.	172.
1041 CHAMPAIG	130.	71.	226.	428.
1042 CLINTON	112.	55.	247.	413.
1043 COLUMBIA	438.	165.	589.	1193.
1044 COSHOCTO	155.	116.	229.	500.
1045 CRAWFORD	273.	251.	417.	941.
1046 DARKE	151.	36.	306.	493.
1047 FAIRFIELD	331.	178.	435.	944.
1048 FAYETTE	86.	48.	215.	349.
1049 GUERNSEY	152.	79.	187.	418.
1050 HARDIN	127.	91.	220.	438.
1051 HARRISON	48.	7.	54.	110.
1052 HIGHLAND	73.	18.	166.	256.
1053 HOCKING	78.	47.	115.	240.
1054 HOLMES	54.	14.	108.	176.
1055 JACKSON	83.	36.	126.	245.
1056 KNOX	181.	111.	298.	590.
1057 LICKING	513.	311.	715.	1539.
1058 LOGAN	116.	41.	225.	382.
1059 MADISON	76.	16.	170.	262.
1060 MARION	324.	289.	532.	1146.
1061 MERCER	75.	85.	350.	510.
1062 MORROW	75.	21.	93.	189.
1063 NOBLE	4.	0.	40.	44.
1064 PERRY	72.	11.	77.	160.
1065 SHELBY	188.	154.	283.	625.
1066 TUSCAWAR	330.	216.	513.	1058.
1067 UNION	109.	68.	193.	370.
1068 VINTON	22.	2.	24.	48.
1069 WAYNE	417.	236.	595.	1248.
1070 WYANDOT	65.	23.	153.	242.
SUBTOTAL	5808.	3297.	9278.	18383.
ORBES-TOTAL	36932.	23660.	47087.	107678.

TABLE 21D: ELECTRICITY CONSUMPTION FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
1071 CUYAHOGA	11547.	5777.	13266.	30590.
1072 DEFIAENCE	188.	183.	341.	711.
1073 ERIE	413.	261.	549.	1224.
1074 FULTON	125.	68.	310.	503.
1075 HANCOCK	263.	87.	424.	774.
1076 HENRY	141.	141.	273.	555.
1077 HURON	222.	135.	362.	720.
1078 LAKE	1083.	406.	1115.	2605.
1079 LORAIN	1447.	916.	1629.	3992.
1080 LUCAS	2780.	1458.	3467.	7705.
1081 OTTAWA	151.	59.	222.	432.
1082 PAULDING	63.	22.	110.	196.
1083 PUTNAM	114.	80.	250.	444.
1084 SANDUSKY	301.	225.	460.	986.
1085 SENeca	299.	276.	490.	1066.
1086 VANWERT	122.	75.	233.	430.
1087 WILLIAMS	147.	93.	276.	516.
1088 WOOD	443.	198.	597.	1239.
SUBTOTAL	19850.	10462.	24373.	54685.
STATE-TOTAL	56782.	34122.	71459.	162362.

TABLE 22A: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
1001 ATHENS	398.	51.	303.	752.
1002 BELMONT	692.	92.	489.	1272.
1003 BROWN	155.	9.	151.	315.
1004 BUTLER	3168.	1197.	2093.	6458.
1005 CLARK	1891.	557.	1490.	3938.
1006 CLERMONT	728.	14.	434.	1176.
1007 FRANKLIN	10154.	2299.	7702.	20155.
1008 GALLIA	94.	3.	142.	240.
1009 HAMILTON	14645.	6963.	11054.	32662.
1010 LAWRENCE	545.	194.	416.	1155.
1011 MAHONING	3920.	1321.	2923.	8165.
1012 MEIGS	64.	60.	63.	187.
1013 MIAMI	1370.	192.	1078.	2641.
1014 MONROE	88.	0.	58.	146.
1015 MONTGOME	10365.	4795.	7387.	22548.
1016 MORGAN	109.	30.	82.	222.
1017 MUSKINGA	719.	203.	651.	1573.
1018 PICKAWAY	408.	176.	405.	990.
1019 PIKE	92.	0.	77.	169.
1020 ROSS	673.	172.	667.	1512.
1021 SCIOTO	619.	158.	614.	1392.
1022 WARREN	786.	44.	402.	1232.
1023 WASHINGT	643.	278.	536.	1457.
SUBTOTAL	52325.	18809.	39220.	110354.

TABLE 22B: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
1024 ALLEN	1410.	624.	1362.	3396.
1025 DELAWARE	513.	147.	344.	1004.
1026 GEAUGA	885.	122.	320.	1327.
1027 GREENE	1319.	84.	712.	2115.
1028 JEFFERSON	1204.	495.	900.	2599.
1029 MEDINA	932.	133.	541.	1607.
1030 PORTAGE	1496.	280.	804.	2581.
1031 PREBLE	289.	30.	256.	575.
1032 RICHLAND	1985.	1168.	1568.	4721.
1033 STARK	5436.	2519.	4156.	12111.
1034 SUMMIT	6421.	6427.	4437.	17285.
1035 TRUMBULL	4019.	2402.	2590.	9010.
SUBTOTAL	25908.	14432.	17990.	58330.

TABLE 22C: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
1036 ADAMS	81.	4.	101.	186.
1037 ASHLAND	493.	168.	440.	1101.
1038 ASHTABUL	1218.	448.	956.	2622.
1039 AUGLAIZE	414.	172.	462.	1048.
1040 CARROLL	179.	26.	129.	334.
1041 CHAMPAIG	328.	116.	342.	786.
1042 CLINTON	280.	90.	373.	743.
1043 COLUMBIA	1101.	270.	892.	2263.
1044 COSHOCTO	389.	190.	347.	925.
1045 CRAWFORD	687.	409.	630.	1727.
1046 DARKE	379.	58.	463.	901.
1047 FAIRFIELD	831.	291.	659.	1781.
1048 FAYETTE	216.	78.	325.	619.
1049 GUERNSEY	381.	130.	283.	793.
1050 HARDIN	320.	149.	333.	801.
1051 HARRISON	121.	11.	82.	215.
1052 HIGHLAND	184.	29.	251.	463.
1053 HOCKING	196.	76.	174.	446.
1054 HOLMES	136.	23.	163.	322.
1055 JACKSON	208.	59.	191.	458.
1056 KNOX	456.	181.	450.	1087.
1057 LICKING	1291.	507.	1081.	2879.
1058 LOGAN	291.	67.	340.	699.
1059 MADISON	192.	25.	257.	474.
1060 MARION	815.	472.	805.	2092.
1061 MERCER	189.	138.	529.	857.
1062 MORROW	189.	34.	140.	363.
1063 NOBLE	10.	0.	60.	70.
1064 PERRY	182.	18.	116.	316.
1065 SHELBY	472.	252.	428.	1151.
1066 TUSCAWAR	829.	353.	776.	1957.
1067 UNION	273.	112.	293.	677.
1068 VINTON	55.	4.	36.	95.
1069 WAYNE	1047.	385.	900.	2333.
1070 WYANDOT	164.	38.	232.	434.
SUBTOTAL	14598.	5382.	14039.	34019.
ORBES-TOTAL	92831.	38623.	71249.	202702.

TABLE 22D: ELECTRICITY CONSUMPTION FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO

COUNTY NAME	RESIDENTIAL 1,000MWH	COMMERCIAL 1,000MWH	INDUSTRIAL 1,000MWH	TOTAL 1,000MWH
1071 CUYAHOGA	29025.	9431.	20073.	58529.
1072 DEFIAECE	471.	299.	516.	1286.
1073 ERIE	1038.	426.	831.	2296.
1074 FULTON	313.	112.	469.	894.
1075 HANCOCK	660.	142.	642.	1444.
1076 HENRY	354.	230.	413.	997.
1077 HURON	559.	221.	548.	1327.
1078 LAKE	2723.	663.	1688.	5073.
1079 LORAIN	3637.	1495.	2464.	7597.
1080 LUCAS	6989.	2379.	5246.	14614.
1081 OTTAWA	379.	97.	336.	811.
1082 PAULDING	159.	36.	166.	362.
1083 PUTNAM	287.	131.	378.	796.
1084 SANDUSKY	756.	367.	696.	1820.
1085 SENECA	752.	451.	742.	1945.
1086 VANWERT	307.	122.	352.	781.
1087 WILLIAMS	370.	152.	417.	939.
1088 WOOD	1113.	324.	904.	2341.
SUBTOTAL	49894.	17079.	36880.	103852.
STATE-TOTAL	142724.	55701.	108128.	306554.

TABLE 2BAS NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1001 ATHENS	1387.	326.	1598.	3311.
1002 BELMONT	2366.	571.	2522.	5459.
1003 BROWN	639.	64.	943.	1647.
1004 BUTLER	8371.	5770.	8355.	22497.
1005 CLARK	5545.	2981.	6603.	15130.
1006 CLERMONT	2935.	105.	2643.	5683.
1007 FRANKLIN	31479.	13009.	36074.	80562.
1008 GALLIA	433.	29.	988.	1451.
1009 HAMILTON	41116.	35675.	46891.	123682.
1010 LAWRENCE	1511.	982.	1741.	4234.
1011 MAHONING	10970.	6746.	12359.	30075.
1012 MEIGS	268.	464.	402.	1134.
1013 MIAMI	3679.	942.	4374.	8996.
1014 MONROE	375.	0.	375.	750.
1015 MONTGOMRY	26571.	22433.	28613.	77617.
1016 MORGAN	319.	162.	365.	847.
1017 MUSKINGUM	2204.	1134.	3015.	6353.
1018 PICKAWAY	1146.	902.	1720.	3768.
1019 PIKE	405.	0.	515.	921.
1020 ROSS	1891.	883.	2835.	5609.
1021 SCIOTO	1986.	928.	2976.	5890.
1022 WARREN	2855.	290.	2207.	5351.
1023 WASHINGT	1728.	1365.	2180.	5272.
SUBTOTAL	150180.	95762.	170294.	416237.

TABLE 23B: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1024 ALLEN	3900.	3148.	5690.	12738.
1025 DELAWARE	1459.	763.	1479.	3701.
1026 GEauga	2619.	660.	1432.	4711.
1027 GREENE	4765.	551.	3889.	9205.
1028 JEFFERSO	3199.	2401.	3612.	9212.
1029 MEDINA	3009.	785.	2638.	6432.
1030 PORTAGE	4491.	1535.	3649.	9675.
1031 PREBLE	1076.	206.	1445.	2726.
1032 RICHLAND	4846.	5207.	5785.	15838.
1033 STARK	14055.	11887.	16232.	42174.
1034 SUMMIT	16995.	31044.	17741.	65780.
1035 TRUMBULL	9359.	10207.	9112.	28679.
SUBTOTAL	69774.	68392.	72704.	210870.

TABLE 23C: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1036 ADAMS	356.	31.	667.	1053.
1037 ASHLAND	1436.	892.	1933.	4260.
1038 ASHTABUL	3369.	2264.	3997.	9630.
1039 AUGLAIZE	1206.	915.	2030.	4152.
1040 CARROLL	603.	157.	653.	1413.
1041 CHAMPAIG	983.	634.	1548.	3165.
1042 CLINTON	913.	532.	1837.	3282.
1043 COLUMBIA	3402.	1521.	4162.	9084.
1044 COSHOCTO	1026.	913.	1382.	3321.
1045 CRAWFORD	1729.	1880.	2396.	6004.
1046 DARKE	1420.	399.	2618.	4437.
1047 FAIRFIELD	2333.	1490.	2795.	6617.
1048 FAYETTE	704.	463.	1603.	2770.
1049 GUERNSEY	1060.	659.	1189.	2909.
1050 HARDIN	888.	754.	1395.	3037.
1051 HARRISON	437.	75.	449.	961.
1052 HIGHLAND	707.	200.	1452.	2359.
1053 HOCKING	549.	388.	736.	1673.
1054 HOLMES	501.	153.	907.	1561.
1055 JACKSON	637.	329.	886.	1852.
1056 KNOX	1306.	946.	1948.	4200.
1057 LICKING	3562.	2553.	4509.	10624.
1058 LOGAN	997.	418.	1761.	3176.
1059 MADISON	753.	182.	1521.	2456.
1060 MARION	2102.	2225.	3139.	7465.
1061 MERCER	648.	865.	2736.	4248.
1062 MORROW	613.	202.	690.	1505.
1063 NOBLE	58.	0.	537.	595.
1064 PERRY	638.	115.	614.	1367.
1065 SHELBY	1218.	1188.	1670.	4076.
1066 TUSCAWAR	2298.	1784.	3251.	7333.
1067 UNION	790.	590.	1278.	2658.
1068 VINTON	203.	24.	203.	430.
1069 WAYNE	2962.	1988.	3846.	8796.
1070 WYANDOT	584.	248.	1248.	2080.
SUBTOTAL	42990.	27976.	63583.	134548.
ORBES-TOTAL	262942.	192128.	306580.	761654.

TABLE 23D: NATURAL GAS CONSUMPTION FOR YEAR 1985 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1071 CUYAHOGA	77523.	45969.	81001.	204493.
1072 DEFIANCE	1216.	1406.	2009.	4631.
1073 ERIE	2801.	2098.	3388.	8287.
1074 FULTON	1025.	667.	2319.	4010.
1075 HANCOCK	2194.	860.	3224.	6278.
1076 HENRY	922.	1092.	1622.	3637.
1077 HURON	1596.	1153.	2364.	5114.
1078 LAKE	7933.	3525.	7431.	18889.
1079 LORAIN	9453.	7093.	9678.	26225.
1080 LUCAS	20168.	12531.	22872.	55570.
1081 OTTAWA	1186.	551.	1588.	3325.
1082 PAULDING	533.	223.	841.	1596.
1083 PUTNAM	852.	709.	1693.	3253.
1084 SANDUSKY	2014.	1785.	2802.	6601.
1085 SENECA	1923.	2103.	2864.	6890.
1086 VANWERT	912.	664.	1580.	3156.
1087 WILLIAMS	1085.	815.	1848.	3749.
1088 WOOD	3299.	1750.	4047.	9096.
SUBTOTAL	136635.	84994.	153169.	374799.
STATE-TOTAL	399577.	277122.	459749.	1136450.

TABLE 24A: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ORBES PLANT COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1001 ATHENS	1251.	483.	2442.	4176.
1002 BELMONT	2134.	846.	3853.	6833.
1003 BROWN	577.	95.	1441.	2113.
1004 BUTLER	7549.	8550.	12767.	28866.
1005 CLARK	5001.	4417.	10090.	19508.
1006 CLERMONT	2647.	156.	4039.	6841.
1007 FRANKLIN	28388.	19275.	55120.	102784.
1008 GALLIA	391.	44.	1509.	1944.
1009 HAMILTON	37080.	52862.	71646.	161588.
1010 LAWRENCE	1363.	1456.	2659.	5478.
1011 MAHONING	9893.	9996.	18884.	38772.
1012 MEIGS	241.	687.	615.	1544.
1013 MIAMI	3318.	1396.	6684.	11398.
1014 MONROE	338.	0.	573.	911.
1015 MONTGOMRY	23963.	33239.	43719.	100921.
1016 MORGAN	288.	240.	558.	1087.
1017 MUSKINGUM	1988.	1680.	4607.	8274.
1018 PICKAWAY	1033.	1337.	2627.	4998.
1019 PIKE	366.	0.	787.	1153.
1020 ROSS	1706.	1309.	4331.	7346.
1021 SCIOTO	1791.	1374.	4548.	7713.
1022 WARREN	2574.	429.	3372.	6376.
1023 WASHINGTON	1559.	2022.	3330.	6911.
SUBTOTAL	135436.	141895.	260202.	537533.

TABLE 24B: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN OTHER ORBES SMSA COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1024 ALLEN	3517.	4664.	8694.	16875.
1025 DELAWARE	1315.	1130.	2261.	4706.
1026 GEAUGA	2362.	977.	2188.	5527.
1027 GREENE	4297.	816.	5942.	11055.
1028 JEFFERSON	2885.	3558.	5519.	11962.
1029 MEDINA	2713.	1163.	4031.	7908.
1030 PORTAGE	4051.	2274.	5575.	11899.
1031 PREBLE	970.	305.	2208.	3483.
1032 RICHLAND	4371.	7715.	8839.	20925.
1033 STARK	12675.	17613.	24802.	55090.
1034 SUMMIT	15327.	45999.	27107.	88431.
1035 TRUMBULL	8440.	15125.	13923.	37486.
SUBTOTAL	62924.	101340.	111087.	275351.

TABLE 24C: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER ORBES COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1036 ADAMS	321.	45.	1019.	1385.
1037 ASHLAND	1295.	1321.	2953.	5569.
1038 ASHTABUL	3038.	3354.	6107.	12500.
1039 AUGLAIZE	1088.	1356.	3102.	5547.
1040 CARROLL	544.	233.	998.	1775.
1041 CHAMPAIG	886.	939.	2366.	4191.
1042 CLINTON	824.	789.	2807.	4419.
1043 COLUMBIA	3068.	2253.	6359.	11680.
1044 COSHOCTO	926.	1353.	2111.	4389.
1045 CRAWFORD	1559.	2785.	3660.	8004.
1046 DARKE	1280.	592.	4000.	5872.
1047 FAIRFIELD	2104.	2207.	4270.	8581.
1048 FAYETTE	635.	686.	2450.	3771.
1049 GUERNSEY	956.	976.	1817.	3750.
1050 HARDIN	801.	1117.	2131.	4049.
1051 HARRISON	394.	111.	686.	1191.
1052 HIGHLAND	637.	297.	2219.	3153.
1053 HOCKING	495.	575.	1125.	2195.
1054 HOLMES	452.	227.	1386.	2065.
1055 JACKSON	575.	487.	1353.	2415.
1056 KNOX	1178.	1402.	2976.	5556.
1057 LICKING	3212.	3783.	6889.	13884.
1058 LOGAN	899.	619.	2691.	4209.
1059 MADISON	679.	270.	2325.	3273.
1060 MARION	1896.	3297.	4796.	9988.
1061 MERCER	584.	1281.	4180.	6046.
1062 MOKROW	553.	299.	1054.	1906.
1063 NOBLE	52.	0.	821.	873.
1064 PFRRY	575.	170.	938.	1684.
1065 SHELBY	1099.	1760.	2552.	5410.
1066 TUSCAWAR	2072.	2644.	4967.	9683.
1067 UNION	712.	874.	1953.	3539.
1068 VINTON	183.	36.	310.	529.
1069 WAYNE	2671.	2946.	5876.	11494.
1070 WYANDOT	527.	367.	1907.	2801.
SUBTOTAL	38769.	41453.	97152.	177374.
ORBES-TOTAL	237128.	284686.	468440.	990257.

TABLE 24D: NATURAL GAS CONSUMPTION FOR YEAR 2000 IN ALL OTHER COUNTIES
IN THE STATE OF OHIO IN BILLIONS OF BTUS

COUNTY NAME	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TOTAL
1071 CUYAHOGA	69913.	68114.	123765.	261792.
1072 DEFiance	1096.	2083.	3070.	6250.
1073 ERIE	2526.	3109.	5176.	10812.
1074 FULTON	924.	988.	3543.	5455.
1075 HANCOCK	1978.	1275.	4926.	8179.
1076 HENRY	832.	1618.	2479.	4929.
1077 HURON	1440.	1709.	3612.	6761.
1078 LAKE	7154.	5223.	11354.	23731.
1079 LORAIN	8525.	10510.	14787.	33823.
1080 LUCAS	18188.	18567.	34947.	71702.
1081 OTTAWA	1069.	817.	2427.	4313.
1082 PAULDING	481.	330.	1285.	2095.
1083 PUTNAM	768.	1050.	2586.	4404.
1084 SANDUSKY	1816.	2645.	4281.	8742.
1085 SENECA	1734.	3116.	4376.	9226.
1086 VANWERT	823.	984.	2414.	4220.
1087 WILLIAMS	979.	1208.	2824.	5011.
1088 WOOD	2975.	2594.	6184.	11752.
SUBTOTAL	123221.	125940.	234035.	483197.
STATE-TOTAL	360348.	410626.	702475.	1473446.