The work leading to this report was supported by funds provided by the National Council for Soviet and East European Research. The analysis and interpretations contained in the report are those of the author.
Executive Summary

This project involved the collection, processing and organization of data relating to the macroeconomic performance of the major countries of Eastern Europe. The databank provides, to the extent possible, a consistent set of time series for Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, the Soviet Union, and Yugoslavia. The data are typically complete for the period 1960-85, although some series begin as early as 1950. Official national data has served as the primary source of information in most cases.

This databank construction effort has resulted in the generation of eight datasets for each of the countries. The data sets include:

- gross industrial output
- gross agricultural output
- investment and capital stock
- employment
- Net Material Product accounts
- Gross National Product accounts
- foreign trade flows
- energy production, trade and apparent consumption.

The tables of data are annotated to indicate sources of data, discontinuities terms of sectoral classification or price base, and a brief statement of the methodology, if applicable, used to bridge the discontinuities and arrive at a series consistent over time.

The databank will be available for distribution to the scholarly community via computer diskettes, on hard copy and through on-line access on the SOVSET computer network. Inquiries should be addressed to: The Director, Soviet Studies Program; Center for Strategic and International Studies; Suite 400; 1800 K Street, NW; Washington, DC 20006.
FINAL REPORT
CONSTRUCTION OF A SOVIET AND EAST EUROPEAN MACROECONOMIC DATABANK

Activities Undertaken

This project involved the collection, processing and organization of a body of data relating to the macroeconomic performance of the Soviet Union and the major nations of Eastern Europe. (Note that the proposed research included the Soviet Union and six East European countries--Bulgaria, Czechoslovakia, East Germany, Hungary, Poland and Romania--while in the course of the research data for Yugoslavia were also collected and processed). The objective of the effort has been to make these data available and more readily usable (in terms of documentation, comparability and physical accessibility) to a wide range of researchers concerned with the historical and current development of these economies. The effort was proposed in recognition of the lack of incentives for individual academic scholars to undertake data work and the limitations of the current state of this data on research and the ability to attract new, young scholars into the field of research on the East European economies. The capability of making these data readily available to scholars through microcomputer networks or through the distribution of magnetic media readable by microcomputer argued for the undertaking of such a task at this time as a major contribution to research on this area.

A brief description of the kinds of obstacles to such a data
effort is useful here to illustrate the nature of the activities which were involved in meeting the objectives of the project. Because the aim was to provide, to the extent possible, a consistent set of time series starting as early as possible (some as early as 1950), and because we chose to rely on official national data as the primary source of information in most cases, the process of gathering and processing the data involved most of the numerous problems commonly encountered by individual scholars of these economies. Over this lengthy period, i.e., 1950 or 1960 through 1985, the central statistical agencies of these countries have reclassified economic activities according to branch of industry and sector of the economy and have also altered base year prices for calculation of comparable price data frequently. There is seldom, if ever, adequate documentation explaining the exact nature of the reclassification or adequate publication of revised figures for earlier years reflecting the new price base or branch/sectoral classification system. Only one of these countries—Czechoslovakia—has undertaken to provide a volume of statistics which provide annual time series for economic data covering the full period addressed here in which the data for all years are presented in terms of the most recent price base and aggregation scheme. This was the result of a special project and was not regarded as a natural function of the Czechoslovak state statistical office. This view is apparently shared across Eastern Europe and no other special projects have come to our attention. This situation explains the very considerable effort required in constructing the extensive
The following activities were involved in the construction of the database:

- **Data collection.** Because of the problems in the coverage offered by individual statistical handbook issues as indicated above, it was necessary to obtain many years' worth of these annuals to provide for maximum numbers of observations in the final time series. In addition, specialized statistical materials, usually published on a less than annual basis, were consulted when necessary to fill in missing observations or explain/adjust for apparent discontinuities in reporting.

- **Data processing.** Based on an initial survey of the availability of data for each economy in each of the anticipated categories of statistics to be presented, it was necessary to design a standard disaggregation scheme which would be more-or-less comparable across countries. While more detailed breakdowns, if available, were not discarded, the standard disaggregation was to be regarded as a minimum. Accordingly, after the data were entered into the skeletal electronic spreadsheet it was necessary to enter formulas into the spreadsheet to group subcategories into the appropriate cells of the standard categories as well as enter formulas to bridge data series across classification and price-base changes.

- **Documentation.** After decisions were made about the synthesis of data from selected statistical materials and
the bridging of changes in classification and price base, it was necessary to describe this process in the documentation of the databank, typically provided in footnotes to the series of tables.

- **Preparation for Electronic Dissemination.** While the electronic spreadsheet software proved ideal for the entering and manipulation of the data, spreadsheet programs store information in ways that are often incompatible with systems designed for other purposes. Thus it was necessary to translate the databank files from the spreadsheet format to the data interchange format usable for uploading the data to another system. The data, in turn, were then made available to the SOVSET' network (an electronic communications facility for Soviet and East European specialists). The data were delivered for dissemination in phases as the collection and processing of particular categories of indicators (such as gross industrial output) across countries was completed.

**Accomplishments**

The databank construction effort has resulted in the generation of eight data sets for the eight countries of concern. These data sets are being made available to other scholars via the SOVSET' computer network. They are accessible both in the form of text files (appropriate for incorporation into research papers) and in the form of data interchange format (dif)
files (appropriate for incorporation into still other spreadsheet files), together with appropriate annotation. The various data sets include:

- **gross industrial output**, both official and Western reconstructed series for gross output for individual branches of industry and appropriate subtotals to provide for cross-country comparability of aggregation schemes, where possible. (In current prices and in constant prices or volume index form if available).

- **gross agricultural output**, total and disaggregated into the crop and livestock products branches, where possible.

- **investment and capital stock**, for the sectors of the national economy with the industrial sector disaggregated further into its branches. The data are provided in current prices and constant prices or volume index form if available.

- **employment**, by sector of the national economy with further disaggregation of the industrial sector into its individual branches, where possible.

- **energy production, trade and apparent consumption**, individual fuels in the original physical units in which they were reported (e.g., brown coal briquettes in thousand tons) and energy balances disaggregated by fuel-type (coal, oil, gas and primary electric power) in energy-equivalent terms (e.g., production of all coal in thousand barrels per day of oil equivalent).

- **foreign trade flows**, imports and exports reported separately
by trading region (socialist and non-socialist) and by commodity composition, if available, according to Standard International Trade Classification and/or CMEA Trade Nomenclature and/or national foreign trade commodity classification. If possible, trade flows are reported in national devisa currency and rubles for socialist trade and dollars for non-socialist trade, all in current prices.

- **Net Material Product accounts**, aggregate output by sector of origin and domestic utilization by category of final use, in current and constant prices, where available, including a reconciliation of net material product produced and used.

- **Gross National Product accounts**, growth indices for reconstruction of national accounts based on Western accounting concepts (these are produced by L. W. International Financial Research), by sector of origin and end-use.

These data are typically complete for the period 1960-85, although some series begin as early as 1950. The tables of data are annotated to indicate sources of data, discontinuities in terms of sectoral classification or price base, and a brief statement of the methodology, if applicable, used to bridge the discontinuities and arrive at a series consistent over time. Only relatively straightforward adjustments were made to the data, while incorporation of more-or-less educated guesses which might be appropriate for a different sort of effort were avoided. Altogether, these data number about 2500 series, each probably with upward of 20 observations. Hard copy tabulations
of the data are being prepared, which will somewhat expand and standardize the available documentation.

Expanded documentation of these data, being generated in connection with future hard-copy dissemination of the data, will include a listing of sources for the series, by range of observations where practicable. In addition, there will be an identification of discontinuities in schemes of classification or price base which relate to the series and, in some cases, the results of interim steps in calculation to illuminate the methodology used to bridge these to arrive at a complete series consistent conceptually over time. This format may also allow for presentation of data at even more disaggregated levels which space and the need to impose somewhat standardized sectoral/branch schemes prohibited for the computerized format.

**Dissemination**

It is our intention to distribute the databank via computer diskettes, on hard copy and through on-line access by means of the SOVSET' computer network. As indicated above, the diskette versions of the databank were the initial output of the construction of the databank. These diskettes have since been translated and uploaded for eventual access by SOVSET' users. Hard copy versions of the data tables are in the final stages of preparation.

Currently the data available on the SOVSET' system is completing a period of experimental testing. This involves
further tailoring of the formats and procedures by which the database will be accessed and the on-line documentation presented. In order to alert the research community to the availability of the new databank, we intend to mail announcements to the membership of scholarly associations, such as the American Association for the Advancement of Slavic Studies. We also will seek to place announcements in scholarly journals, such as the *Journal of Comparative Economics* and *Soviet Economy*. Charges for dissemination of the databank will be minimal, covering the cost of duplicating (hard copy and/or magnetic) and postage and handling or, alternatively, the cost of establishing an account on the SOVSET' computer network.

**Future Plans**

Further work on the Soviet and East European Economic Databank will include both updating and maintenance and some additions of new data sets as they become available from complementary efforts by Dr. Vanous and his associates. The time series in the recently completed version of the databank have been updated, wherever possible, to 1985. It is anticipated that the data series will be revised and expanded throughout the year as new official data are published and research time permits, without a formal effort for the near term. It is also likely that the SOVSET' component of the databank facility will be maintained and kept current so long as the commitment to the network, in general, is kept at a sufficient level. Thus the
availability of an up-to-date economic database for these countries is assured for the foreseeable future.

In terms of expansion of the database, plans include the addition of at least two further data sets:

- **foreign trade prices**, sets of indices for developments in the prices faced by these economies in their foreign trade, disaggregated by trading region (socialist and non-socialist) or currency area (convertible and non-convertible) and by major trade commodity categories where possible, together with indices for developments in terms of trade vis-a-vis trading regions or currency areas.

- **balance of payments and debt**, a series of historical data to correspond, where practicable, to the hard-currency balance of payments (with a breakdown into major categories of inflows and outflows), gross indebtedness (with breakdown by type of creditor and maturity), and assets statistics, which have already been reconstructed by Vanous and his associates for the period 1980-1985 for these countries.

In the case of each of these sets of statistics, the process of calculation/reconstruction would be considerably more complex than for the majority of the data already collected and would incorporate estimates with much wider margins for error. The value of such data, when combined with explicit description of sources and methodology, would be quite significant and would certainly merit the effort, should the resources become available.

A second, and less ambitious, type of extended effort would
include the revision of some of the data sets already assembled. This would be intended to provide greater standardization across countries and greater consistency over time by incorporating estimates of trends to bridge gaps in existing data series coupled with explicit documentation of the methodology and its justification in the case of particular series or sets of series. This could be undertaken from time to time for various segments of the databank in conjunction with the updating effort.

With the progress in the Soviet Union and Eastern Europe which we expect, at least into the medium term, and the gradual increase in interaction with international financial and trade bodies that is being achieved by some of these countries and being sought by still others, we may well expect accelerated change in their practices of statistical accounting and reporting. Logically, and hopefully, this should mean an increased quantity of published statistics together with more explicit documentation of methodological issues. Thus, it may become possible to improve the consistency and standardize the coverage of the databank series and considerably reduce the density of cells with "N/A" entered. While the ongoing efforts at keeping the databanks up to date will be routine, it is probable that beyond the near term a more major effort will be needed to insure that the databank will reflect the most current knowledge about the Soviet and East European economies.
Short Guide to Disk Contents:

#1A & B Industrial Output
#2 Agricultural Output
#3A Capital Stock
#3B Investment
#4 Employment
#5A, B&C Net Material Product
#6 Gross National Product
#7A & B Foreign Trade
#8 Soviet Union (all files)

Energy Files:
#I-1 Production, Trade, Consumption: USSR, Yugoslavia
#I-2 Production, Trade, Consumption: Hungary, Poland, Romania
#I-3 Production, Trade, Consumption: Bulgaria, Czechoslovakia, GDR
#II-1 Trade
#II-2 CMEA
#II-3 Energy Balances and Totals
Disk Contents for Macroeconomic Databank

Disk #1A INDUSTRIAL OUTPUT

FILENAME    Title
            
BUV70       Bulgaria: Industrial Output by Branch (in millions of 1982 leva)
CZV70       Czechoslovakia: Industrial Output by Branch (in millions of 1977 Kcs)
GDV70       GDR: Industrial Output by Branch (in millions of 1980 East German marks)
HUV70       Hungary: Industrial Output by Branch (in millions of 1982 forints)

Disk #1B INDUSTRIAL OUTPUT

FILENAME    Title
            
ROV70       Romania: Industrial Output by Branch (in millions of 1980 lei)
POV70       Poland: Industrial Output by Branch (in billions of 1982 zlotys)
YUV70       Yugoslavia: Industrial Output by Branch (in millions of 1982 dinars)

Disk #2 AGRICULTURAL OUTPUT

FILENAME    Title
            
BU70AG      Bulgaria: Agricultural Output Indices by Branch
CZV70AG     Czechoslovakia: Agricultural Output (in millions of 1980 Kcs)
HUV70AG     Hungary: Agricultural Output by Branch (in millions of 1984 forints)
POV70AG     Poland: Agricultural Output by Branch (in millions of 1982 zlotys)
ROV70AG     Romania: Agricultural Output by Branch (in millions of 1984 lei)
YU70AG      Yugoslavia: Agricultural Output Indices by Branch

Note: all files listed here have .WKS as the extension.
Disk #3A  CAPITAL STOCK

FILENAME | Title
----------|--------------------------------------------------
BUCAPNE   | Bulgaria: Capital Stock by Sector of the National Economy
BUCAPIND  | Bulgaria: Capital Stock by Branch of Industry
CZCAPNE   | Czechoslovakia: Capital Stock by Sector of the National Economy
CZCAPIND  | Czechoslovakia: Capital Stock by Branch of Industry
GDCAPNE   | GDR: Capital Stock by Sector of the National Economy
GDCAPIND  | GDR: Capital Stock by Branch of Industry
HUCAPNE   | Hungary: Capital Stock by Sector of the National Economy
HUCAPIND  | Hungary: Capital Stock by Branch of Industry
POCAPNE   | Poland: Capital Stock by Sector of the National Economy
POCAPIND  | Poland: Capital Stock by Branch of Industry
ROCAPNE   | Romania: Capital Stock by Sector of the National Economy
ROCAPIND  | Romania: Capital Stock by Branch of Industry
YUCAPNE   | Yugoslavia: Capital Stock by Sector of the National Economy
YUCAPIND  | Yugoslavia: Capital Stock by Branch of Industry

Disk #3B  INVESTMENT

FILENAME | Title
----------|--------------------------------------------------
BUINVNE   | Bulgaria: Investment by Sector of the National Economy
BUINVIND  | Bulgaria: Investment by Branch of Industry
CZINVNE   | Czechoslovakia: Investment by Sector of the National Economy
CZINVIND  | Czechoslovakia: Investment by Branch of Industry
GDINVNE   | GDR: Investment by Sector of the National Economy
HUINVNE   | Hungary: Investment by Sector of the National Economy
HUINVIND  | Hungary: Investment by Branch of Industry
POINVNE   | Poland: Investment by Sector of the National Economy
POINVIND  | Poland: Investment by Branch of Industry
ROINVNE   | Romania: Investment by Sector of the National Economy
ROINVIND  | Romania: Investment by Branch of Industry

Note: all files listed here have .WKS as the extension.
### Disk #4 EMPLOYMENT

<table>
<thead>
<tr>
<th>FILENAME</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BULABNE</td>
<td>Bulgaria: Employment by Branch of the National Economy</td>
</tr>
<tr>
<td>BULABIND</td>
<td>Bulgaria: Employment by Sector of Industry</td>
</tr>
<tr>
<td>CZLABIND</td>
<td>Czechoslovakia: Employment by Sector of Industry</td>
</tr>
<tr>
<td>CZLABINE</td>
<td>Czechoslovakia: Employment by Branch of the National Economy</td>
</tr>
<tr>
<td>GDLABIND</td>
<td>GDR: Employment by Sector of Industry</td>
</tr>
<tr>
<td>GDLABNE</td>
<td>GDR: Employment by Branch of the National Economy</td>
</tr>
<tr>
<td>HULABIND</td>
<td>Hungary: Employment by Sector of Industry</td>
</tr>
<tr>
<td>HULABNE</td>
<td>Hungary: Employment by Branch of the National Economy</td>
</tr>
<tr>
<td>POLABIND</td>
<td>Poland: Employment by Sector of Industry</td>
</tr>
<tr>
<td>POLABNE</td>
<td>Poland: Employment by Branch of the National Economy</td>
</tr>
<tr>
<td>ROLABIND</td>
<td>Romania: Employment by Sector of Industry</td>
</tr>
<tr>
<td>ROLABNE</td>
<td>Romania: Employment by Branch of the National Economy</td>
</tr>
<tr>
<td>YULABIND</td>
<td>Yugoslavia: Employment by Sector of Industry</td>
</tr>
<tr>
<td>YULABNE</td>
<td>Yugoslavia: Employment by Branch of the National Economy</td>
</tr>
</tbody>
</table>

Note: all files listed here have .WKS as the extension.

### Disk #5A NET MATERIAL PRODUCT

<table>
<thead>
<tr>
<th>FILENAME</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUNMPPRO</td>
<td>Bulgaria: NMP Produced</td>
</tr>
<tr>
<td>BUNMPUSE</td>
<td>Bulgaria: NMP Used</td>
</tr>
<tr>
<td>CZNMPPRO</td>
<td>Czechoslovakia: NMP Produced</td>
</tr>
<tr>
<td>CZNMPUSE</td>
<td>Czechoslovakia: NMP Used</td>
</tr>
</tbody>
</table>

### Disk #5B NET MATERIAL PRODUCT

<table>
<thead>
<tr>
<th>FILENAME</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDNMPUSE</td>
<td>GDR: NMP Used</td>
</tr>
<tr>
<td>GDNMPPRO</td>
<td>GDR: NMP Produced</td>
</tr>
<tr>
<td>PONMPPRO</td>
<td>Poland: NMP Produced</td>
</tr>
<tr>
<td>PONMPUSE</td>
<td>Poland: NMP Used</td>
</tr>
<tr>
<td>HUNMPUSE</td>
<td>Hungary: NMP Used</td>
</tr>
</tbody>
</table>

Note: all files listed here have .WKS as the extension.
Disk #5C  NET MATERIAL PRODUCT

FILENAME Title
HUNMPPRO Hungary: NMP Produced
RONMPPRO Romania: NMP Produced
RONMPPUSE Romania: NMP Used
RONMPPR2
YUGMPPRO Yugoslavia: GMP Produced
YUGMPUSE Yugoslavia: GMP Used

Disk #6  GROSS NATIONAL PRODUCT

FILENAME Title
BUGNP Bulgaria: GNP by Sector of Origin (1975 = 100)
BULGGNP Bulgaria: GNP by Sector of Origin, 1965-85 (1975 = 100)
BUGNPUSE Bulgaria: GNP by Domestic Final Use, 1965-1985 (1970 = 100)
BUNPUSE Bulgaria: GNP by Domestic Final Use, 1965-85 (1975 = 100)
CZGNP Czechoslovakia: GNP by Sector of Origin (1975 = 100)
CZECHGNP Czechoslovakia: GNP by Sector of Origin, 1965-85 (1975 = 100)
CZGNPUSE Czechoslovakia: GNP by Domestic Final Use (1975=100)
CZNPUSE Czechoslovakia: GNP by Domestic Final Use, 1965-85 (1975 = 100)
EGGNP GDR: GNP by Sector of Origin (1975 = 100)
EGERMGNP GDR: GNP by Sector of Origin, 1965-85 (1975 = 100)
EGGNPUSE GDR: GNP by Domestic Final Use (1975=100)
EGGNPPRO GDR: GNP by Sector of Origin (1975=100)
HUGNP Hungary: GNP by Sector of Origin (1975 = 100)
HUNGGNP Hungary: GNP by Sector of Origin, 1965-85 (1975 = 100)
HUNCUSE Hungary: GNP by Domestic Final Use (1975=100)
HUMPUSE Hungary: GNP by Domestic Final Use, 1965-85 (1975 = 100)
POGNP Poland: GNP by Sector of Origin (1975 = 100)
POLANGNP Poland: GNP by Sector of Origin, 1965-85 (1975 = 100)
POGNPUSE Poland: GNP by Domestic Final Use (1975=100)
PONPUSE Poland: GNP by Domestic Final Use, 1965-85 (1975 = 100)
ROGNP Romania: GNP by Sector of Industry (1975 = 100)
ROMANGNP Romania: GNP by Sector of Industry, 1965-85 (1975 = 100)
ROGNPUSE Romania: GNP by Domestic Final Use (1975=100)
RONPUSE Romania: GNP by Domestic Final Use, 1965-85 (1975 = 100)
<table>
<thead>
<tr>
<th>FILENAME</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BFTC1</td>
<td>Bulgaria: Foreign Trade, CTN Classification (current prices)</td>
</tr>
<tr>
<td>BFTC2</td>
<td>Bulgaria: Foreign Trade, CMEA Countries, CTN Classification (current prices)</td>
</tr>
<tr>
<td>CFTC1</td>
<td>Czechoslovakia: Foreign Trade, CTN Classification (current prices)</td>
</tr>
<tr>
<td>CFTC2</td>
<td>Czechoslovakia: Foreign Trade, CTN Classification, Socialist Countries (current prices)</td>
</tr>
<tr>
<td>CFTC3</td>
<td>Czechoslovakia: Foreign Trade, Non-Socialistist Countries, CTN Classification (current prices)</td>
</tr>
<tr>
<td>CFTC2R</td>
<td>Czechoslovakia: Foreign Trade, CTN Classification, Socialist Countries (in millions of rubles)</td>
</tr>
<tr>
<td>CFTC3D</td>
<td>Czechoslovakia: Foreign Trade, CTN Classification, Non-Socialist Countries (in millions of dollars)</td>
</tr>
<tr>
<td>CFTS1</td>
<td>Czechoslovakia: Foreign Trade, SITC Classification, (current prices)</td>
</tr>
<tr>
<td>CFTS2</td>
<td>Czechoslovakia: Foreign Trade, SITC Classification, Socialist Countries (current prices)</td>
</tr>
<tr>
<td>CFTS3</td>
<td>Czechoslovakia: Foreign Trade, SITC Classification, Non-Socialist Countries (current prices)</td>
</tr>
<tr>
<td>CFTS2R</td>
<td>Czechoslovakia: Foreign Trade, SITC Classification, Socialist Countries (in millions of rubles)</td>
</tr>
<tr>
<td>CFTS3D</td>
<td>Czechoslovakia: Foreign Trade, SITC Classification, Non-Socialist Countries (in millions of dollars)</td>
</tr>
<tr>
<td>GFTC1</td>
<td>GDR: Foreign Trade, CTN Classification, Total Trade (current prices)</td>
</tr>
<tr>
<td>GFTC2</td>
<td>GDR: Foreign Trade, CTN Classification, Socialist Countries (current prices)</td>
</tr>
<tr>
<td>GFTC3</td>
<td>GDR: Foreign Trade, CTN Classification, Non-Socialist Countries (current prices)</td>
</tr>
<tr>
<td>GFTC2R</td>
<td>GDR: Foreign Trade, CTN Classification, Socialist Countries (in millions of rubles)</td>
</tr>
<tr>
<td>GFTC3D</td>
<td>GDR: Foreign Trade, CTN Classification, Non-Socialist Countries (in millions of dollars)</td>
</tr>
<tr>
<td>HFTS1</td>
<td>Hungary: Foreign Trade, SITC Classification, Total Trade (current prices)</td>
</tr>
<tr>
<td>HFTS2</td>
<td>Hungary: Foreign Trade, SITC Classification, Socialist Countries (current prices)</td>
</tr>
<tr>
<td>HFTS3</td>
<td>Hungary: Foreign Trade, SITC Classification, Non-Socialist Countries (current prices)</td>
</tr>
<tr>
<td>HFTS2R</td>
<td>Hungary: Foreign Trade, SITC Classification, Socialist Countries (in millions of rubles)</td>
</tr>
<tr>
<td>HFTS3D</td>
<td>Hungary: Foreign Trade, SITC Classification, Non-Socialist Countries (in millions of dollars)</td>
</tr>
</tbody>
</table>

Note: all files listed here have .WKS as the extension.
<table>
<thead>
<tr>
<th>FILENAME</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFTC</td>
<td>Romania: Foreign Trade, CTN Classification</td>
</tr>
<tr>
<td>YFTS</td>
<td>Yugoslavia: Foreign Trade, SITC Classification</td>
</tr>
<tr>
<td>PFTC1</td>
<td>Poland: Foreign Trade, CTN Classification (current prices)</td>
</tr>
<tr>
<td>PFTC2</td>
<td>Poland: Foreign Trade, CTN Classification, Socialist Countries (current prices)</td>
</tr>
<tr>
<td>PFTC3</td>
<td>Poland: Foreign Trade, CTN Classification, Non-Socialist Countries (current prices)</td>
</tr>
<tr>
<td>PFTC2R</td>
<td>Poland: Foreign Trade, CTN Classification, Socialist Countries (in millions of rubles)</td>
</tr>
<tr>
<td>PFTC3D</td>
<td>Poland: Foreign Trade, CTN Classification, Non-Socialist Countries (in millions of dollars)</td>
</tr>
<tr>
<td>PFTS1</td>
<td>Poland: Foreign Trade, SITC Classification (current prices)</td>
</tr>
<tr>
<td>PFTS2</td>
<td>Poland: Foreign Trade, SITC Classification, Socialist Countries (current prices)</td>
</tr>
<tr>
<td>PFTS3</td>
<td>Poland: Foreign Trade, SITC Classification, Non-Socialist Countries (in millions of dollars)</td>
</tr>
<tr>
<td>PFTS2R</td>
<td>Poland: Foreign Trade, SITC Classification, Socialist Countries (in millions of rubles)</td>
</tr>
<tr>
<td>PFTS3D</td>
<td>Poland: Foreign Trade, SITC Classification, Non-Socialist Countries (in millions of dollars)</td>
</tr>
</tbody>
</table>

Note: all files listed here have .WKS as the extension.
FILENAME Title

SUAGPRO Agricultural Production
SUCAPIN Capital Stock by Branch of Industry
SUCAPNE Capital Stock by Sector of National Economy
SUINDPRO Industrial Production
SULABNE Labor Force by Sector of National Economy
SULABIND Labor Force by Branch of Industry
SUNMPPRO Net Material Product Produced
SUNMPUSE Net Material Product Utilized
SUINVNE Investment by Sector of National Economy
SUINVIND Investment by Branch of Industry

FILENAME Title

SUFTC Soviet Foreign Trade, CTN Classification
SUFTQ Soviet Foreign Trade, Quarterly Data, 1980-1986

Note: all files listed here have .WKS as the extension.
## Disk I-1

### FILENAME | Contents
--- | ---
SUCMPEL | USSR Trade with CMEA Countries: Primary Electric Power
SUCMNGL | USSR Trade with CMEA Countries: Natural Gas Liquids
SUBCOL | Soviet Union: Brown Coal
SUHCOL | Soviet Union: Hard Coal
SUBCOK | Soviet Union: Brown Coal Coke
SUHCOK | Soviet Union: Hard Coal Coke
SUCOIL | Soviet Union: Crude Oil
SUROIL | Soviet Union: Refined Oil
SUNGAS | Soviet Union: Natural Gas
SUMGAS | Soviet Union: Manufactured Gas
SUNGASL | Soviet Union: Natural Gas Liquids
SUOTH | Soviet Union: Wood, Shale, and Peat
SULIG | Soviet Union: Lignite
SUBBRK | Soviet Union: Brown Coal Briquettes
SUPEL | Soviet Union: Primary Electric Power
SULGAS | Soviet Union: Liquefied Gases
SUBOCOL | Soviet Union:
YUBCOL | Yugoslavia: Brown Coal
YUHCOL | Yugoslavia: Hard Coal
YUBCOK | Yugoslavia: Brown Coal Coke
YUHCOK | Yugoslavia: Hard Coal Coke
YUCOIL | Yugoslavia: Crude Oil
YUROIL | Yugoslavia: Refined Oil
YUNGAS | Yugoslavia: Natural Gas
YUMGAS | Yugoslavia: Manufactured Gas
YUMGASL | Yugoslavia: Natural Gas Liquids
YUOTH | Yugoslavia: Wood, Shale, and Peat
YULIG | Yugoslavia: Lignite
YUBBRK | Yugoslavia: Brown Coal Briquettes
YUPEL | Yugoslavia: Primary Electric Power
SUCMCOIL | USSR Trade with CMEA Countries: Crude Oil
SUCMROIL | USSR Trade with CMEA Countries: Refined Oil
SUCMNGAS | USSR Trade with CMEA Countries: Natural Gas
SUCMLGAS | USSR Trade with CMEA Countries: Liquefied Gases
SUCMBCOL | USSR Trade with CMEA Countries: Brown Coal
SUCMHCOK | USSR Trade with CMEA Countries: Hard Coal Coke

All Energy files have .WK1 as the extension
### Disk I-2

#### FILENAME  | Contents
--- | ---
ROBCOL | Romania: Brown Coal
ROHCOL | Romania: Hard Coal
ROBCOK | Romania: Brown Coal Coke
ROHCKOK | Romania: Hard Coal Coke
ROCOIL | Romania: Crude Oil
ROROIL | Romania: Refined Oil
RONGAS | Romania: Natural Gas
ROMGAS | Romania: Manufactured Gas
RONGASL | Romania: Natural Gas Liquids
ROOTH | Romania: Wood, Shele, and Peat
POBCOL | Poland: Brown Coal
ROLIG | Romania: Lignite
ROBBRK | Romania: Brown Coal Briquettes
HUBCOL | Hungary: Brown Coal
HUHCOL | Hungary: Hard Coal
HUBCOK | Hungary: Brown Coal Coke
HUHCKOK | Hungary: Hard Coal Coke
HUOIL | Hungary: Crude Oil
HUROIL | Hungary: Refined Oil
HUNGAS | Hungary: Natural Gas
HUMGAS | Hungary: Manufactured Gas
HUNGASL | Hungary: Natural Gas Liquids
HUOTH | Hungary: Wood, Shale, and Peat
HULIG | Hungary: Lignite
HUBBRK | Hungary: Brown Coal Briquettes
HUPEL | Hungary: Primary Electric Power
HUOCOL | Hungary: Other (Unidentified) Hard Coal
HULGAS | Hungary: Liquefied Gases
ROPEL | Romania: Primary Electric Power
POHCOL | Poland: Hard Coal
POBCOK | Poland: Brown Coal Coke
POHCKOK | Poland: Hard Coal Coke
POCOIL | Poland: Crude Oil
POROIL | Poland: Refined Oil
PONGAS | Poland: Natural Gas
POMGAS | Poland: Manufactured Gas
PONGASL | Poland: Natural Gas Liquids
POOTH | Poland: Wood, Shale, and Peat
POLIG | Poland: Lignite
POBBRK | Poland: Brown Coal Briquettes
POPEL | Poland: Primary Electric Power
POACOL | Poland: Anthracite Coal
POCGAS | Poland: Coke Gas

All Energy files have .WK1 as the extension
<table>
<thead>
<tr>
<th>FILENAME</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUHCOL</td>
<td>Bulgaria: Hard Coal</td>
</tr>
<tr>
<td>BUBBRK</td>
<td>Bulgaria: Brown Coal Briquettes</td>
</tr>
<tr>
<td>CZNGAS</td>
<td>Czechoslovakia: Natural Gas</td>
</tr>
<tr>
<td>CZBCOK</td>
<td>Czechoslovakia: Brown Coal Coke</td>
</tr>
<tr>
<td>CZHCOK</td>
<td>Czechoslovakia: Hard Coal Coke</td>
</tr>
<tr>
<td>CZROIL</td>
<td>Czechoslovakia: Refined Oil</td>
</tr>
<tr>
<td>CZMGAS</td>
<td>Czechoslovakia: Manufactured Gas</td>
</tr>
<tr>
<td>BUBCOK</td>
<td>Bulgaria: Brown Coal Coke</td>
</tr>
<tr>
<td>CZBCOL</td>
<td>Czechoslovakia: Brown Coal</td>
</tr>
<tr>
<td>BUHCOIL</td>
<td>Bulgaria: Hard Coal Coke</td>
</tr>
<tr>
<td>BUROIL</td>
<td>Bulgaria: Refined Oil</td>
</tr>
<tr>
<td>BUNGAS</td>
<td>Bulgaria: Natural Gas</td>
</tr>
<tr>
<td>BUNGAS</td>
<td>Bulgaria: Manufactures Gas</td>
</tr>
<tr>
<td>CZHCOL</td>
<td>Czechoslovakia: Hard Coal</td>
</tr>
<tr>
<td>CZOTH</td>
<td>Czechoslovakia: Wood, Shale, and Peat</td>
</tr>
<tr>
<td>CZPEL</td>
<td>Czechoslovakia: Primary Electric Power</td>
</tr>
<tr>
<td>BUBCOL</td>
<td>Bulgaria: Brown Coal</td>
</tr>
<tr>
<td>BUNGASL</td>
<td>Bulgaria: Natural Gas Liquids</td>
</tr>
<tr>
<td>BUOTH</td>
<td>Bulgaria: Wood, Shale, and Peat</td>
</tr>
<tr>
<td>BULIG</td>
<td>Bulgaria: Lignite</td>
</tr>
<tr>
<td>BUPEL</td>
<td>Bulgaria: Primary Electric Power</td>
</tr>
<tr>
<td>CZBBRK</td>
<td>Czechoslovakia: Brown Coal Briquettes</td>
</tr>
<tr>
<td>CZCOIL</td>
<td>Czechoslovakia: Crude Oil</td>
</tr>
<tr>
<td>CZNGASL</td>
<td>Czechoslovakia: Natural Gas Liquids</td>
</tr>
<tr>
<td>CZOGAS</td>
<td>Czechoslovakia: Other Gas</td>
</tr>
<tr>
<td>CZLIG</td>
<td>Czechoslovakia: Lignite</td>
</tr>
<tr>
<td>BUACOL</td>
<td>Bulgaria: Anthracite Coal</td>
</tr>
<tr>
<td>GDCOIL</td>
<td>GDR: Crude Oil</td>
</tr>
<tr>
<td>GDHCOL</td>
<td>GDR: Hard Coal</td>
</tr>
<tr>
<td>GBBCOK</td>
<td>GDR: Brown Coal Coke</td>
</tr>
<tr>
<td>GDHCOK</td>
<td>GDR: Hard Coal Coke</td>
</tr>
<tr>
<td>GDLIG</td>
<td>GDR: Lignite</td>
</tr>
<tr>
<td>GDROIL</td>
<td>GDR: Refined Oil</td>
</tr>
<tr>
<td>GDNGAS</td>
<td>GDR: Natural Gas</td>
</tr>
<tr>
<td>GDMGAS</td>
<td>GDR: Manufactured Gas</td>
</tr>
<tr>
<td>GDNGASL</td>
<td>GDR: Natural Gas Liquids</td>
</tr>
<tr>
<td>GDOTH</td>
<td>GDR: Wood, Shale, and Peat</td>
</tr>
<tr>
<td>GDBBRK</td>
<td>GDR: Brown Coal Briquettes</td>
</tr>
<tr>
<td>GDPEL</td>
<td>GDR: Primary Electric Power</td>
</tr>
<tr>
<td>GDBCOL</td>
<td>GDR: Brown Coal</td>
</tr>
</tbody>
</table>

All Energy files have .WK1 as the extension
Disk II-1

FILENAME       Contents

HUTDGAS        Hungary: Trade Data, Aggregate Gas Balance
HUTDPEL        Hungary: Trade Data, Aggregate Electricity Balance
SUTDGAS        Soviet Union: Trade Data, Aggregate Gas Balance
ROTDOIIL       Romania: Trade Data, Aggregate Oil Balance
BUTDGAS        Bulgaria: Trade Data, Aggregate Gas Balance
HUTDCOL        Hungary: Trade Data, Aggregate Coal Balance
BUTOIIL        Bulgaria: Trade Data, Aggregate Oil Balance
BUTDPEL        Bulgaria: Trade Data, Aggregate Electricity Balance
CZTDCOL        Czechoslovakia: Trade Data, Aggregate Coal Balance
YUTDCOL        Yugoslavia: Trade Data, Aggregate Coal Balance
YUTDOIIL       Yugoslavia: Trade Data, Aggregate Oil Balance
YUTDGAS        Yugoslavia: Trade Data, Aggregate Gas Balance
YUTDPEL        Yugoslavia: Trade Data, Aggregate Electricity Balance
POTDGAS        Poland: Trade Data, Aggregate Gas Balance
CZTDPEL        Czechoslovakia: Trade Data, Aggregate Gas Balance
CZTDOIIL       Czechoslovakia: Trade Data, Aggregate Oil Balance
GDTDOIIL       GDR: Trade Data, Aggregate Oil Balance
CZTDGAS        Czechoslovakia: Trade Data, Aggregate Gas Balance
GDTDPEL        GDR: Trade Data, Aggregate Electricity Balance
GDTDCOL        GDR: Trade Data, Aggregate Coal Balance
ROTDPEL        Romania: Trade Data, Aggregate Gas Balance
GDTDGAS        GDR: Trade Data, Aggregate Coal Balance
POTDPEL        Poland: Trade Data, Aggregate Gas Balance
POTDPEL        Poland: Trade Data, Aggregate Electricity Balance
HUTOIIL        Hungary: Trade Data, Aggregate Oil Balance
ROTDCOL        Romania: Trade Data, Aggregate Coal Balance
POTDCOL        Poland: Trade Data, Aggregate Coal Balance
ROTDGAS        Romania: Trade Data, Aggregate Gas Balance
SUTDCOL        Soviet Union: Trade Data, Aggregate Coal Balance
SUTOIIL        Soviet Union: Trade Data, Aggregate Oil Balance
SUTDPEL        Soviet Union: Trade Data, Aggregate Electricity Balance
BUTDCOL        Bulgaria: Trade Data, Aggregate Coal Balance

All Energy files have .WK1 as the extension
<table>
<thead>
<tr>
<th>FILENAME</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMTDCOL6</td>
<td>CMEA 6: Trade Data, Aggregate Coal Balance</td>
</tr>
<tr>
<td>CMTDGAS6</td>
<td>CMEA 6: Trade Data, Aggregate Gas Balance</td>
</tr>
<tr>
<td>CMEBAL6</td>
<td>CMEA 6: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>CMTDPEL6</td>
<td>CMEA 6: Trade Data, Aggregate Electricity Balance</td>
</tr>
<tr>
<td>CMTDCOL7</td>
<td>CMEA 7: Trade Data, Aggregate Coal Balance</td>
</tr>
<tr>
<td>CMTDGAS7</td>
<td>CMEA 7: Trade Data, Aggregate Gas Balance</td>
</tr>
<tr>
<td>CMEBAL7</td>
<td>CMEA 7: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>CMTDPEL7</td>
<td>CMEA 7: Trade Data, Aggregate Electricity Balance</td>
</tr>
<tr>
<td>CMTDCOL8</td>
<td>CMEA 8: Trade Data, Aggregate Coal Balance</td>
</tr>
<tr>
<td>CMTDGAS8</td>
<td>CMEA 8: Trade Data, Aggregate Gas Balance</td>
</tr>
<tr>
<td>CMEBAL8</td>
<td>CMEA 8: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>CMTDPEL8</td>
<td>CMEA 8: Trade Data, Aggregate Electricity Balance</td>
</tr>
<tr>
<td>CMTDTOT6</td>
<td>CMEA 6: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>CMTDTOT7</td>
<td>CMEA 7: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>CMTDTOT8</td>
<td>CMEA 8: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>CMTDOIL6</td>
<td>CMEA 6: Trade Data, Aggregate Oil Balance</td>
</tr>
<tr>
<td>CMTDOIL7</td>
<td>CMEA 7: Trade Data, Aggregate Oil Balance</td>
</tr>
<tr>
<td>CMTDOIL8</td>
<td>CMEA 8: Trade Data, Aggregate Oil Balance</td>
</tr>
</tbody>
</table>
Disk II-3

<table>
<thead>
<tr>
<th>FILENAME</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTDTOT</td>
<td>Bulgaria: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>HUTDTOT</td>
<td>Hungary: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>GDTDTOT</td>
<td>GDR: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>POTDTOT</td>
<td>Poland: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>CZTDTOT</td>
<td>Czechoslovakia: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>ROEBAL</td>
<td>Romania: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>SUTDTOT</td>
<td>Soviet Union: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>YUTDTOT</td>
<td>Yugoslavia: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>CZEBAL</td>
<td>Czechoslovakia: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>GDEBAL</td>
<td>GDR: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>HUEBAL</td>
<td>Hungary: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>POEBAL</td>
<td>Poland: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>ROTDTOT</td>
<td>Romania: Trade Data, Total Aggregate Energy Balance</td>
</tr>
<tr>
<td>SUEBAL</td>
<td>Soviet Union: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
<tr>
<td>YUEBAL</td>
<td>Yugoslavia: Total Energy Balance and Shares of Individual Types of Energy in the Energy Balance</td>
</tr>
</tbody>
</table>
Contents of the documentation volumes for the MacroEconomic Databank.
The volumes are arranged by country, with sections for datasets.

1. Bulgaria
   1. Industrial Output
      1. BUV82 By Branch (in millions of 1982 leva)
      2. BUH10 Output Indices by Branch (1970 = 100)
      3. BULINDEX Industrial Production Index, by Branches, 1975-1984
   2. Agricultural Output
      1. BU70AG Output Indices by Branch (1970 = 100)
   3. Investment
      1. Capital Stock
         1. BUCAPNE By Branch of National Economy (current prices)
         2. BUCAPIND By Sector of Industry (current prices)
      2. Investment
         1. BINVN By Branch of National Economy (current prices)
         2. BINV By Sector of Industry (current prices)
   4. Employment
      1. BULABNE By Branch of National Economy
      2. BULABIND By Sector of Industry
   5. Net Material Product
      1. Produced
         2. BNPC In million current leva
         3. BNPR82 In million 1982 leva
         4. BNPXO70Y Official Index (1970=100)
         5. BNPXOV7 Official Index (various base years)
         6. BNPXR70 Reconstructed Index (1970=100)
      2. Used
         2. BNUC In million current leva
         3. BNUC82 In million 1982 leva
         4. BNXO70Y Official Index (1970=100)
         5. BNXO70Y Official Index (1970=100)
         6. BNXR70 Reconstructed Index (1970=100)
   6. Gross National Product
      1. BUGNPPRO By Sector of Origin (1975=100)
      2. BUGNPUSE By Final Domestic Use (1975=100)
   7. Trade
      1. CTN Classification
         1. BFTC1 Total Trade (current prices)
         2. BFTC2 CMEA Countries (current prices)
         3. BFTC3 Non-CMEA Countries (current prices)
2. Czechoslovakia
   1. Industrial Output
      1. CZV77  By Branch (in millions of 1977 Kcs)
      2. CZX70  Output Indices by Branch (1970 = 100)
      3. CZEINDX  Industrial Production Index, by Branches, 1975-1984
   2. Agricultural Output
      1. CZV70AG  In million 1980 korunas
   3. Investment
      1. Capital Stock
         1. CZCAPNE  By Branch of National Economy (various prices)
         2. CZCAPIND  By Sector of Industry (various prices)
      2. Investment
         1. By Sector of National Economy
            1. CINVNC  Current prices
            2. CINVW7  1977 prices
         2. By Branch of Industry
            1. CINV17  1977 prices
   4. Employment
      1. CZLABNE  By Branch of National Economy
      2. CZLABIND  By Sector of Industry
   5. Net Material Product
      1. Produced
         2. CNPC  In million current korunas
         3. CNPC77  In million 1977 korunas
         4. CNPCV  In current million korunas, various prices
         5. CNPXO48  Official Index (1948 = 100)
         6. CNPX70  Reconstructed Index (1970 = 100)
      2. Used
         2. CNUC  In million current korunas
         3. CNU77  In million 1977 korunas
         4. CNUCV  In million korunas, constant prices various years)
         5. CNUCC  In million constant korunas
         6. CNUX70  Official Index (1970=100)
         7. CNUXR70  Reconstructed Index (1970=100)
   6. Gross National Product
      1. CZGNPPRO  Sector of Origin (1975=100)
      2. CZGNPUSE  Final Domestic Use (1975=100)
   7. Trade
      1. CTN Classification
         1. Total Trade
            0. CFTC1  Foreign Trade (current prices)
         2. Socialist Trade
            1. CFTC2  Current prices
            2. CFTC2R  In millions of rubles
         3. Non-Socialist Trade
            1. CFTC3  Current prices
            2. CFTC3D  In millions of dollars
2. Czechoslovakia (continued)

7. Trade

2. SITC Classification
   1. Total Trade
      0. CFTS1 Foreign Trade (current prices)
   2. Socialist Trade
      1. CFTS2 Current Prices
      2. CFTS2R In millions of rubles
   3. Non-Socialist Trade
      1. CFTS3 Current prices
      2. CFTS3D In millions of dollars
3. German Democratic Republic

1. Industrial Output
   1. GDV80 In billion 1980 marks
   2. GDX70 Output Indices by Branch (1970 = 100)
   3. GDRINDEX Industrial Production Index, by Branches 1975-1984

2. Investment
   1. Capital Stock
      1. GDCAPNE By Branch of National Economy (1980 prices)
      2. GDCAPIND By Branch of Industry (1966 prices)
   2. Investment
      1. By Sector of National Economy
      2. GINVN8 1980 prices

4. Employment
   1. GDLABNE By Branch of National Economy
   2. GDLABIND By Sector of Industry

5. Net Material Product
   1. Produced
      2. GNPC In million 1980 marks
      3. GNPX70 Index from Official data in 1980 marks (1970=100)
      4. GNPXS80 Percentage share, selected years (1980 prices)
   2. Used
      2. GNUC In million 1980 marks
      3. GNUX60 Index (1960=100, from data in 1980 prices)
      4. GNUX70 Index (1970=100, from data in 1980 prices)

6. Gross National Product
   1. EGGNPPRO By Sector of Origin (1975=100)
   2. EGGNPUSE By Domestic Final Use (1975=100)

7. Trade
   1. CTN Classification
      1. Total Trade
         0. GFTC1 Current prices
      2. Socialist Trade
         1. GFTC2 Current prices
         2. GFTC2R In millions of rubles
      3. Non-Socialist Trade
         1. GFTC3 Current prices
         2. GFTC3D In millions of dollars
4. Hungary

1. Industrial Output
   1. HUV82 By Branches (in million 1982 forints)
   2. HUX70 Output Indices (1970 = 100)
   3. HUNINDEX Industrial Production Index, by Branches, 1975-1984

2. Agricultural Output
   1. HUV70AG By Branch (in millions of 1984 forints)

3. Investment
   1. Capital Stock
      1. HUCAPNE Current prices
      2. HUCAPNE8 1981 prices
      3. HUCAPNE7 Index (1970 = 100)
   2. Investment
      1. By Sector of National Economy
         1. HINVNC Current prices
      2. By Branch of Industry
         HUCAPIND Current prices

4. Employment
   1. HULABNE By Branch of National Economy
   2. HULABIND By Sector of Industry

5. Net Material Product
   1. Produced
      1. HNPC In billion current forints
      2. HNPC81 In billion 1981 forints
      3. HNPCV In billion forints (constant prices, various years)
      4. HNPXO50 Official Index (1950=100)
      5. HNPXO70 Official Index (1970=100)
      6. HNPXR70 Index (1970=100, from data in 1981 forints)
   2. Used
      1. HNUC In billion current forints
      2. HNU81 In billion 1981 forints
      3. HNUCV In billion forints (constant prices, various years)
      4. HNUXO50 Official Index (1950=100)
      5. HNUXO70 Index (1970=100, from data in 1981 forints)

6. Gross National Product
   1. HUGNPPRO By Sector of Origin (1975=100)
   2. HUGNPUSE By Domestic Final Use (1975=100)

7. Trade
   2. SITC Classification
      1. Total Trade
         0. HFTS1 Foreign Trade (current prices)
      2. Socialist Trade
         1. HFTS2 Current prices
         2. HFTS2R In millions of rubles
      3. Non-Socialist Trade
         1. HFTS3 Current prices
         2. HFTS3D In millions of dollars
5. Poland

1. Industrial Output
   1. POV82 By Branch (in billions of 1982 zlotys)
   2. PDX70 Output Indices by Branch (1970 = 100)
   3. POLINDX Industrial Production Index by Branches (1975=100)

2. Agricultural Output
   1. POV70AG By Branch (in millions of 1982 zlotys)

3. Investment
   1. By Branch of National Economy
      0. POCAPNE Current prices
      1. POCAPNEV Various prices
   2. By Sector of Industry
      0. POCAPIND Current prices
      1. POCAPINV Various prices

2. Investment
   1. By Sector of National Economy
      1. PINVNC Current prices
      2. PINVNV Various prices
   2. By Branch of Industry
      1. PINVIC Current prices
      2. PINVIV Various prices

4. Employment
   1. POLABNE By Branch of National Economy
   2. POLABIND By Sector of Industry

5. Net Material Product
   1. Produced
      2. PNPC In billion current zlotys
      3. PNPCC In billion current zlotys (constant prices, various years)
      4. PNP82 In billion 1982 zlotys
      5. PNPX070 Official Index (1970=100)
      6. PNPXR70 Index (1970=100; from 1982 zloty data)
   2. Used
      2. PNUC In billion current zlotys
      3. PNUCV In billion zlotys (constant prices, various years)
      4. PNU82 In billion 1982 zlotys
      5. PNUX070 Official Index (1970=100)
      6. PNUXR70 Index (1970=100; from 1982 zloty data)

6. Gross National Product
   1. POGNPPRO By Sector of Origin (1975=100)
   2. POGNPUSE By Domestic Final Use (1975=100)

7. Trade
   1. CTN Classification
      1. Total Trade
         0. PFTC1 Current prices
      2. Socialist Trade
         1. PFTC2 Current prices
         2. PFTC2R In millions of rubles
      3. Non-Socialist Trade
         1. PFTC3 Current prices
         2. PFTC3D In millions of dollars
5. Poland (continued)

7. Trade

2. SITC Classification
   1. Total Trade
      0. PFTS1  Current prices
   2. Socialist Trade
      1. PFTS2  Current prices
      2. PFTS2R  In millions of rubles
   3. Non-Socialist Trade
      1. PFTS3  Current prices
      2. PFTS3D  In millions of dollars
6. Romania

1. Industrial Output
   1. ROV80  By Branch (in million 1980 lei)
   2. ROX70  Output Indices (1970 = 100)
   3. ROMINDX  Industrial Production Index, by Branches (1975=100)

2. Agricultural Output
   1. ROV70AG  By Branch (in million 1984 lei)

3. Investment
   1. Capital Stock
      1. By Branch of National Economy
         0. ROCAPNE  Various base years
         1. ROCAPNE7  Index (1970 = 100)
         2. ROCAPNE8  1984 prices
      2. Investment
         1. By Sector of National Economy
            1. RINVNV  Various prices
            2. RINVNVS  In Socialist Sectors (various prices)
         2. By Branch of Industry
            1. RINVIV  Various prices

4. Employment
   1. ROLABNE  By Branch of National Economy
   2. ROLABIND  By Sector of Industry

5. Net Material Product
   1. Produced
      1. RNPC  Current prices
      2. RNPCV  In billion constant lei (various years)
      3. RNP81  In billion 1981 lei
      4. RNP81P  1981 prices
      5. RNP63P  1963 prices
      6. RNPX050  Official Index (1950 = 100)
      7. RNPXR70  Index (1970 = 100; from 1981 lei data)
   2. Used
      1. RNUC  Current prices
      2. RNUCV  In billion constant lei (various years)
      3. RNU81  In billion 1981 lei
      4. RNUX75  Index (1975 = 100; from data in 1981 lei)

6. Gross National Product
   1. ROGNPPRO  By Sector of Origin (1975=100)
   2. ROGNPUSE  By Domestic Final Use (1975=100)

7. Trade
   1. CTN Classification
      1. Total Trade
         0. RFTC  Current prices
7. Soviet Union

1. Industrial Output
   1. SUINDPRO By Sector (current prices)
   2. SUINDPR8 By Sector (1984 prices)
   3. SUINDPRX Index; by Sector

2. Agricultural Output
   1. SUAGPRO Various prices
   2. SUAGPROV Index (various base years)
   3. SUAGPRO8 Index (1984 = 100)

3. Investment
   1. Capital Stock
      1. By Branch of National Economy
         1. SUCAPNE Various prices
         2. SUCAPNE4 Index (1940 = 100)
         3. SUCAPNE7 1973 Prices
      2. By Sector of Industry
         1. SUCAPIN7 1973 Prices
         2. SUCAPIN8 1984 Prices
         3. SUCAPINS Scrapping Rate
         4. SUCAPINV Value of Scrapped Capital Stock (1984 prices)
   2. Investment
      1. By Branch of National Economy
         1. SUINVNV Various prices
         2. SUINVN73 1973 Prices
      2. By Branch of Industry
         1. SUINVIV Various prices
         2. SUINVI73 1973 Prices

4. Employment
   1. SULABNE By Branch of National Economy
   2. SULABIND By Sector of Industry

5. Net Material Product
   1. Produced
      2. SNPC Current prices
      3. SNP84 1984 Prices
      4. SNPX70 Index (1970 = 100)
      5. SNPXV Index; (various base years)
      6. SNPRATIO Ratios between Indices and Constant price NMP
   2. Used
      2. SNUC Current prices
      3. SNU73 1973 Prices
      4. SNUXV Index (various base years)
      5. SNUCALCX Calculation of NMP Utilized Index
8. Yugoslavia
1. Industrial Output
   1. YUV82 By Branch (in millions of 1982 dinars)
   2. YUX70 Output Indices by Branch (1970 = 100)
2. Agricultural Output
   1. YU70AG Output Indices by Branch (1970 = 100)
3. Investment
   1. Capital Stock
      1. YUCAPNE By Branch of National Economy (1972 prices)
      2. YUCAPIND By Sector of Industry (book value)
4. Employment
   1. YULABNE By Branch of National Economy
   2. BULABIND By Sector of Industry
5. Gross Material Product
   1. Produced
      2. YGPC In million current dinars
      3. YGP72 In million 1972 dinars
      4. YGPX70 Index (1970 = 100)
   2. Used
      2. YGUC In million current dinars
      3. YGU72 In million 1972 dinars
      4. YUGX70 Index (1970 = 100)
6. Trade
   2. SITC Classification
      1. YFTS Total Trade (current prices)
## CONTENTS

### Sources of Production Statistics:

- **Soviet Union** I-2
- **Bulgaria** I-3
- **Czechoslovakia** I-4
- **East Germany** I-5
- **Hungary** I-6
- **Poland** I-7
- **Romania** I-8
- **Yugoslavia** I-9

### Sources of Trade Statistics:

- **Soviet Union** I-11 to I-14
- **Bulgaria** I-15 to I-18
- **Czechoslovakia** I-19 to I-24
- **East Germany** I-25 to I-28
- **Hungary** I-29 to I-33
- **Poland** I-34 to I-36
- **Romania** I-37 to I-41
- **Yugoslavia** I-42 to I-43

### Data Tables/Country

<table>
<thead>
<tr>
<th>Source</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anthracite</strong></td>
<td>B1, P1</td>
</tr>
<tr>
<td>Hard Coal</td>
<td>S1-S2, B2, C1, E1, H1, F2, R1, Y1</td>
</tr>
<tr>
<td>Other Hard Coal</td>
<td>H2</td>
</tr>
<tr>
<td>Brown Coal</td>
<td>S3-S4, B3, C2, E2, H3, P3, R2, Y2</td>
</tr>
<tr>
<td>Lignite</td>
<td>S5, B4, C3, E3, H4, P4, R3, Y3</td>
</tr>
<tr>
<td>Brown Coal Briquettes</td>
<td>S6, B5, C4, E4, H5, P5, R4, Y4</td>
</tr>
<tr>
<td>Hard Coal Coke</td>
<td>S7-S8, B6, C5, E5, H6, P6, R5, Y5</td>
</tr>
<tr>
<td>Brown Coal Coke</td>
<td>S9, B7, C6, E6, H7, P7, R6, Y6</td>
</tr>
<tr>
<td>Oil</td>
<td>S10-S11, B8, C7, E7, H8, P8, R7, Y7</td>
</tr>
<tr>
<td>Natural Gas Liquids</td>
<td>S12, B9, C8, E8, H9, P9, R8, Y8</td>
</tr>
<tr>
<td>Refined Oil Products</td>
<td>S13-S14, B10, C9, E9, H10, P10, R9, Y9</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>S15-S16, B11, C10, E10, H11, P11, R10, Y10</td>
</tr>
<tr>
<td>Liquified Gas</td>
<td>S17-S18, H12</td>
</tr>
<tr>
<td>Manufactured Gas</td>
<td>S19, B12, C11, E11, H13, P12, R11, Y11</td>
</tr>
<tr>
<td>Other Gas</td>
<td>C12</td>
</tr>
<tr>
<td>Primary Electricity</td>
<td>S20-S21, B13, C13, E12, H14, P13, R12, Y12</td>
</tr>
<tr>
<td>Wood, Shale, Peat</td>
<td>S22, B14, C14, E13, H15, P14, R13, Y13</td>
</tr>
<tr>
<td>Other Fuels</td>
<td>S23</td>
</tr>
</tbody>
</table>
CONTENTS

<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONVERSION TABLES</td>
<td></td>
</tr>
<tr>
<td>Hard Coal</td>
<td>1</td>
</tr>
<tr>
<td>Brown Coal</td>
<td>2</td>
</tr>
<tr>
<td>Lignite</td>
<td>3</td>
</tr>
<tr>
<td>Crude Oil</td>
<td>4</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>5-6</td>
</tr>
<tr>
<td>Electric Power</td>
<td>7</td>
</tr>
<tr>
<td>Anthracite</td>
<td>8</td>
</tr>
<tr>
<td>Brown Coal Briquettes</td>
<td>9</td>
</tr>
<tr>
<td>Hard Coal Coke</td>
<td></td>
</tr>
<tr>
<td>Brown Coal Coke</td>
<td></td>
</tr>
<tr>
<td>NGL</td>
<td></td>
</tr>
<tr>
<td>Oil Products</td>
<td></td>
</tr>
<tr>
<td>Coke Gas</td>
<td></td>
</tr>
<tr>
<td>Manufactured Gas</td>
<td></td>
</tr>
<tr>
<td>Liquified Gases</td>
<td></td>
</tr>
</tbody>
</table>

ENERGY BALANCES

Total Energy Balance by Type of Energy: A-1 S-1 X-1 U-1 B-1 G-1 H-1 P-1 R-1 Y-1


Primary Energy Balances With Trade Disaggregated by Region

- Total: A-3 S-3 X-3 U-3 B-3 G-3 H-3 P-3 R-3 Y-3
- Coal: A-4 S-4 X-4 U-4 B-4 G-4 H-4 P-4 R-4 Y-4
- Gas: A-6 S-6 X-6 U-6 B-6 G-6 H-6 P-6 R-6 Y-6
- Primary Electricity: A-7 S-7 X-7 U-7 B-7 G-7 H-7 P-7 R-7 Y-7
This appendix provides a cross reference from the LOTUS diskette filenames to the names given to the printed file. In some cases, the LOTUS file contains two or more tables that are printed separately in the documentation. Each of the printed tables has a unique indentifying name found in the upper right-hand corner of the printed table.

Cross Reference of LOTUS filenames to printed table names

#1A Industrial Output

BUV70.WKS contains:
  BUV82
  BUX70
  BULINDX

CZV70.WKS contains:
  CZV77
  CZX70
  CZEINDX

GDV70.WKS contains:
  GDV80
  GDX70
  GDRINDX

HUV70.WKS contains:
  HUV82
  HUX70
  HUNINDX

#1B Industrial Output

ROV70.WKS contains:
  ROV80
  ROX70
  ROMINDX

POV70.WKS contains:
  POV82
  POX70
  POLINDX

YUV70.WKS contains:
  YUV82
  YUX70
#3A Capital Stock

HUCAPNE.WKS contains:
  HUCAPNE
  HUCAPNE8
  HUCAPNE7

POCAPNE.WKS contains:
  POCAPNE
  POCAPNEV

POCAPIND.WKS contains:
  POCAPIND
  POCAPINV

ROCAPNE.WKS contains:
  ROCAPNE
  ROCAPNE7
  ROCAPNE8

#3B Investment

BUINVNE.WKS contains:
  BINVN

BUINVIND.WKS contains:
  BINVI

CZINVNE.WKS contains:
  CINVNC
  CINVN7

CZINVIND.WKS contains:
  CINVIC7

GDINVNE.WKS contains:
  GINVN8

HUINVNE.WKS contains:
  HINVNC

HUINVINV.WKS contains:
  HINVIC

POINVNE.WKS contains:
  PINVNC
  PINVNV

POINVIND.WKS contains:
  PINVIC
  PINVIV

ROINVNE.WKS contains:
  RINVNV
  RINVNVS

ROINVIND.WKS contains:
  RINVIV
#5A Net Material Product

BUNMPRO.WKS contains:
  BNPC
  BNPR82
  BNPX070
  BNPXOV7
  BNPXR70

BUNMPUSE.WKS contains:
  BNUC
  BNU82
  BNX050
  BNUX070
  BNUXR70

CZNMPRO.WKS contains:
  CNPC
  CNPC77
  CNPCV
  CNPXO48
  CNPXR70

CZNMPUSE.WKS contains:
  CNUC
  CNU77
  CNUCV
  CNUCC
  CNUX070
  CNUXR70

#5B Net Material Product

GDNMPRO.WKS contains:
  GNPC
  GNPX70
  GNPXS80

GDNMPUSE.WKS contains:
  GNUC
  GNUX60
  GNUX70

PONMPRO.WKS contains:
  PNPC
  PNPCV
  PNP82
  PNPX070
  PNPXR70
#5B Net Material Product (continued)

PONMPPUSE.WKS contains:
- PNUC
- PNUCV
- PNU82
- PNUXO70
- PNUXR70

HUNMPPUSE.WKS contains:
- HUNC
- HUNCV
- HUN81
- HUNX050
- HUNX070

#5C Net Material Product

HUNMPPRO.WKS contains:
- HNPC
- HNPCV
- HNP81
- HNPXO50
- HNPX070
- HNPXR70

RONMPPRO.WKS contains:
- RNPC
- RNPCV
- RNP81
- RNP81P
- RNP63P
- RNPXO50
- RNPXR70

RONMPPUSE.WKS contains:
- RNUC
- RNUCV
- RNU81
- RNUX75

YUGMPPRO.WKS contains:
- YGPC
- YGP72
- YGPX70

YUGMPPUSE.WKS contains:
- YGUC
- YGU72
- YGUX70
#8. Soviet Union

**SUINDPRO.WKS contains:**
- SUINDPRO
- SUINDPR8
- SUINDPRX

**SUAGPRO.WKS contains:**
- SUAGPRO
- SUAGPROV
- SUAGPRO8

**SUCAPNE.WKS contains:**
- SUCAPNE
- SUCAPNE4
- SUCAPNE7

**SUCAPIN.WKS contains:**
- SUCAPIN7
- SUCAPIN8
- SUCAPINS
- SUCAPINV

**SUINVNE.WKS contains:**
- SUINVNV
- SUINVN73

**SUINVIND.WKS contains:**
- SUINVIV
- SUINVI73

**SNMPPRO.WKS contains:**
- SNPC
- SNP84
- SNPX70
- SNPXV
- SNPRAATIO

**SUNMPPUSE.WKS contains:**
- SNUC
- SNU73
- SNUXV
- SNUCALCX

# 8B. Soviet Union

**SUFTC.WKS contains:**
- SUFTC1
- SUFTC1S
- SUFTC2
- SUFTC2S
- SUFTC3
### Spreadsheet Naming Scheme for Volume One

The spreadsheet naming scheme for Volume One consists of a country code followed by a commodity code. (Example BU:COL = BULGARIA - BROWN COAL)

Below is a list of the country codes and commodity codes.

<table>
<thead>
<tr>
<th>Country Code</th>
<th>Country Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU</td>
<td>BULGARIA</td>
</tr>
<tr>
<td>CI</td>
<td>CZECHOSLOVAKIA</td>
</tr>
<tr>
<td>GD</td>
<td>EAST GERMANY</td>
</tr>
<tr>
<td>HU</td>
<td>HUNGARY</td>
</tr>
<tr>
<td>PO</td>
<td>POLAND</td>
</tr>
<tr>
<td>RO</td>
<td>ROMANIA</td>
</tr>
<tr>
<td>SU</td>
<td>SOVIET UNION</td>
</tr>
<tr>
<td>YU</td>
<td>YUGOSLAVIA</td>
</tr>
<tr>
<td>SUCM</td>
<td>USSR TRADE WITH CMEA COUNTRIES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Commodity Codes</th>
<th>Commodity Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOL</td>
<td>BROWN COAL</td>
</tr>
<tr>
<td>HCOL</td>
<td>HARD COAL</td>
</tr>
<tr>
<td>BCOK</td>
<td>BROWN COAL COKE</td>
</tr>
<tr>
<td>HCOK</td>
<td>HARD COAL COKE</td>
</tr>
<tr>
<td>COIL</td>
<td>CRUDE OIL</td>
</tr>
<tr>
<td>ROIL</td>
<td>Refined Oil</td>
</tr>
<tr>
<td>NGAS</td>
<td>Natural Gas</td>
</tr>
<tr>
<td>MGAS</td>
<td>Manufactured Gas</td>
</tr>
<tr>
<td>NSGAS</td>
<td>Natural Gas Liquids</td>
</tr>
<tr>
<td>OTH</td>
<td>Wood, Shale, and Peat</td>
</tr>
<tr>
<td>LGAS</td>
<td>Lignite</td>
</tr>
<tr>
<td>BBRK</td>
<td>Brown Coal Briquettes</td>
</tr>
<tr>
<td>PEL</td>
<td>Primary Electric Power</td>
</tr>
<tr>
<td>CGAS</td>
<td>Coke Gas</td>
</tr>
<tr>
<td>OGAS</td>
<td>Other Gas</td>
</tr>
<tr>
<td>LGAS</td>
<td>Liquified Gases</td>
</tr>
<tr>
<td>NGL</td>
<td>Natural Gas Liquids</td>
</tr>
<tr>
<td>AGDL</td>
<td>Anthracite Coal</td>
</tr>
<tr>
<td>OCOL</td>
<td>Other (Unidentified) Hard Coal</td>
</tr>
</tbody>
</table>
### Volume Two

The spreadsheet naming scheme for Volume Two consists of a country code followed by TD (for trade data) and a table name code. (Example: BUDCOL = BULGARIA - AGGREGATE COAL BALANCE)

Below is a list of the country codes and the table name codes.

<table>
<thead>
<tr>
<th>Country Codes</th>
<th>Country Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU</td>
<td>BULGARIA</td>
</tr>
<tr>
<td>C1</td>
<td>CZECHOSLOVAKIA</td>
</tr>
<tr>
<td>GD</td>
<td>EAST GERMANY</td>
</tr>
<tr>
<td>HU</td>
<td>HUNGARY</td>
</tr>
<tr>
<td>PO</td>
<td>POLAND</td>
</tr>
<tr>
<td>RO</td>
<td>ROMANIA</td>
</tr>
<tr>
<td>SU</td>
<td>SOVIET UNION</td>
</tr>
<tr>
<td>YU</td>
<td>YUGOSLAVIA</td>
</tr>
<tr>
<td>CM...6</td>
<td>CMEA SIX</td>
</tr>
<tr>
<td>CM...7</td>
<td>CMEA SEVEN</td>
</tr>
<tr>
<td>CM...8</td>
<td>CMEA SEVEN AND YUGOSLAVIA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table Name Codes</th>
<th>Table Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>COL</td>
<td>AGGREGATE COAL BALANCE</td>
</tr>
<tr>
<td>GAS</td>
<td>AGGREGATE GAS BALANCE</td>
</tr>
<tr>
<td>OIL</td>
<td>AGGREGATE OIL BALANCE</td>
</tr>
<tr>
<td>PEL</td>
<td>AGGREGATE ELECTRICITY BALANCE</td>
</tr>
<tr>
<td>TOT</td>
<td>TOTAL AGGREGATE ENERGY BALANCE</td>
</tr>
<tr>
<td>EBAL</td>
<td>TOTAL ENERGY BALANCE AND SHARES OF INDIVIDUAL TYPES OF ENERGY IN THE ENERGY BALANCE</td>
</tr>
</tbody>
</table>