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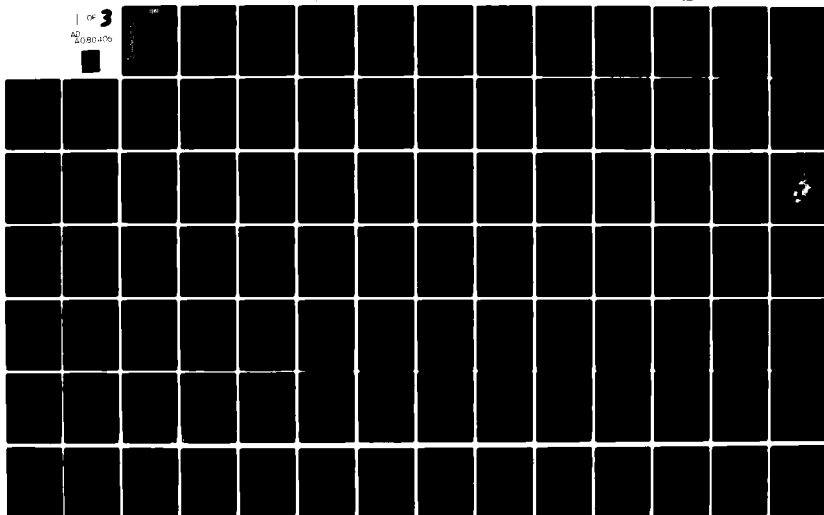
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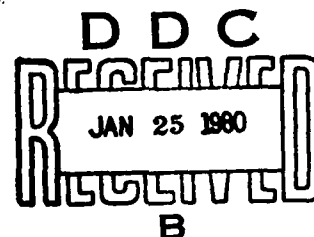
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TRANSPORTATION ENERGY CONSERVATION DATA BOOK

A Selected, Annotated Bibliography, Edition 3

By
A. R. Ehrenshaft
B. Y. Barber
P. J. Carroll
L. K. Plemons
P. A. Purnell
R. S. Weaver



November 1978

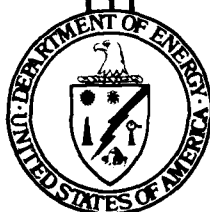
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Oak Ridge, Tennessee

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TRANSPORTATION ENERGY CONSERVATION DATA BOOK:
A SELECTED BIBLIOGRAPHY. EDITION 3

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Energy and Environmental Response Center
Information Center Complex

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FOREWORD

In January 1976, the Transportation Energy Conservation Division (TEC) of the Department of Energy (DOE) contracted with the Oak Ridge National Laboratory (ORNL) to develop a data base which would be used by the TEC staff in evaluation of current and proposed transportation-related technologies. In conjunction with this data collection and analysis activity, the ORNL Transportation Program is developing a comprehensive library of documents relevant to transportation end-use activities and energy conservation; this document collection is managed by the Energy and Environmental Response Center of the Information Center Complex at ORNL.

The first edition of the *Transportation Energy Conservation Data Book*¹ was published in October 1976. Four quarterly supplements²⁻⁵ and the *Transportation Energy Conservation Data Book, Edition 1.5*⁶ were issued to augment the original document; each included an annotated bibliography. In October 1977, *Transportation Energy Conservation Data Book, Edition 2*⁷ was published. As a result of the extensive development of the collection

¹A. S. Loebel, D. J. Bjornstad, D. F. Burch, E. B. Howard, J. F. Hull, D. G. Madewell, N. S. Malthouse, and M. C. Ogle. 1976. *Transportation energy conservation data book, edition 1*. ORNL-5198. Oak Ridge National Laboratory, Oak Ridge, Tenn.

²D. B. Shonka and A. S. Loebel. 1976. *Transportation energy conservation data book, supplement I*. ORNL-5232. Oak Ridge National Laboratory, Oak Ridge, Tenn.

³D. B. Shonka. 1977. *Transportation energy conservation data book, supplement II*. ORNL-5247. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁴A. S. Loebel. 1977. *Transportation energy conservation data book, supplement III*. ORNL-5248. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁵D. B. Shonka, A. S. Loebel, and P. D. Patterson. 1977. *Transportation energy conservation data book, supplement IV*. ORNL-5248. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁶D. B. Shonka, A. S. Loebel, M. C. Ogle, M. L. Johnson, and E. B. Howard. 1977. *Transportation energy conservation data book, edition 1.5*. CONS/7405-1. U.S. Energy Research and Development Administration, Washington, D.C.

⁷D. B. Shonka, A. S. Loebel, and P. D. Patterson. 1977. *Transportation energy conservation data book, edition 2*. ORNL-5320. Oak Ridge National Laboratory, Oak Ridge, Tenn.

of documents relevant to transportation energy conservation, *Transportation Energy Conservation Data Book: A Selected, Annotated Bibliography, Edition 2*⁸ was published as a separate document and was made available on a limited basis.

Due to the favorable response to that publication, *Transportation Energy Conservation Data Book: A Selected Bibliography, Edition 3* is also being published as a separate report. This volume is a selected, keyworded bibliography of 819 references that represent the most current and relevant documents dealing with transportation energy demand and conservation. Also included are ten reviews of important data sources used in compiling *Transportation Energy Conservation Data Book, Edition 3*. Some of these reports were prepared for the TEC Division of DOE (e.g., SRI's reports on rail energy use and diesel cars); others were developed for agencies such as the National Academy of Sciences, the Congressional Budget Office, and the Department of Transportation.

Transportation Energy Conservation Data Book: A Selected Bibliography, Edition 3 was prepared not only to augment the *Transportation Energy Conservation Data Book, Edition 3*⁹ and to assist TEC, but also to better document the developing resources at ORNL. Users are encouraged to send comments concerning errors or omissions, areas of emphasis, and document organization to the Data Management and Analysis Group, Energy Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37830.

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⁸E. B. Howard, B. Y. Barber, A. C. Jordan, and C. C. Seaborn. 1977. *Transportation energy conservation data book: a selected, annotated bibliography, edition 2*. ORNL/EIS-114 (Part 2 of ORNL-5320). Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁹D. B. Shonka, ed. 1978. *Transportation energy conservation data book, edition 3*. ORNL-5493. Oak Ridge National Laboratory, Oak Ridge, Tenn.

ACKNOWLEDGMENTS

The authors would like to acknowledge the support of Philip Patterson, Division of Transportation Energy Conservation of the Department of Energy, and the authors of the *Transportation Energy Conservation Data Book, Edition 3* — Debbie Shonka, David Greene, Axel Rose, Jennifer Hill, Ken Reed, Eric Chen, Tim Gangaware, Brad Murphy, and Gwen Walton — who provided helpful suggestions and guidance in the preparation of this bibliography. Finally, thanks to Sherry Alcorn and Faye Fletcher of the Information Center Complex Computer Production Group, who carried out the computer production of the report, and to Carol McGlothin, Information Center Complex Publications Office, for editorial assistance.

TRANSPORTATION ENERGY CONSERVATION DATA BOOK:
A SELECTED BIBLIOGRAPHY, EDITION 3

A. R. Ehrenshaft, B. Y. Barber, P. J. Carroll,
L. K. Plemons, P. A. Purnell, and R. S. Weaver

HIGHLIGHTS

This bibliography, the second in a series of reports on energy conservation and consumption in the transportation sector, was compiled as part of the continuing technical information support provided by the Energy and Environmental Response Center (EERC) to the Energy Division of the Oak Ridge National Laboratory. The EERC maintains an on-line bibliographic data base documenting energy conservation and consumption in various economic sectors. The citations in this bibliography were selected from a comprehensive file of transportation materials.

A companion volume, *Transportation Energy Conservation Data Book, Edition 3* (ORNL-5493) is an encyclopedia of statistical data on energy utilization by major transportation modes, research and development of alternate transportation modes and fuels (electric vehicles and alcohol fuels), and other pertinent factors influencing energy consumption in the transportation sector. These same subjects are included in this bibliography, which is a desk-top compilation of references. The data in the data book were taken from certain key research studies. Reviews of these studies are included in this bibliography.

All references are keyworded and arranged alphabetically by author or corporate author if individual authors are not cited in the document. Reports sponsored by the Transportation Energy Conservation Division of the Department of Energy are listed in a separate section. Author, corporate author, sponsor, report number, keyword, and permuted title indexes are provided.

INTRODUCTION

Of the 71.1 quads of energy consumed in the United States in 1975, 18.5 quads were used by the transportation sector in the form of oil-derived fuels - gasoline for automobiles; diesel fuels for trucks, trains, and buses; and kerosene for jet aircraft. Major conservation efforts have been launched by the Division of Transportation Energy Conservation (TEC)

As a companion volume to the *Transportation Energy Conservation Data Book, Edition 3* (ORNL-5493), this bibliography provides references on energy consumption by major transportation modes; conservation alternatives; research, development, and demonstration of alternate modes of transportation and fuels; and other factors influencing energy utilization in the transportation sector. Reviews of ten selected studies documenting energy use by different transportation modes are included in this bibliography. Reports sponsored by the Department of Energy (formerly the Energy Research and Development Administration), Division of Transportation Energy Conservation, are listed in a separate section. These references are also included in the main bibliography.

The 819 references contained in this bibliography are an update of *Transportation Energy Conservation Data Book: A Selected, Annotated Bibliography, Edition 2* and are alphabetically arranged by author or corporate author. The sample reference below illustrates the format.

Author —————→ Martini, W.R.
Corporate author —————→ Washington, University of, Joint Center
for Graduate Study
Address: 100 Sprout Rd., Richland,
WA 99352
Title: Stirling Engine Design Manual

Publication description —————→ Final Report, Report No. DOE/NASA/3152-78/1,
NASA CR-135382, 370 p.

Publication date —————→ 1978, April
Sponsor: U.S. Dept. of Energy, Division
of Transportation Energy Conservation;
National Aeronautics and Space
Administration, Lewis Research Center
Keywords: STIRLING ENGINES; DESIGN;
MANUALS; BIBLIOGRAPHIES; PERFORMANCE;
OPTIMIZATION; SIMULATION; MODELS;
DIAGRAMS; RESEARCH
Availability: NTIS

The following indexes are provided: (1) author, (2) corporate author (the organization which performed the study), (3) sponsor (the organization which provided partial or complete funding for the study), (4) report number, (5) keywords (words which describe the main concepts of the document), and (6) permuted title. The permuted title index lists each document alphabetically by principal words in the title.

This bibliography was compiled as a result of the continuing technical information support which the Energy and Environmental Response Center, Information Center Complex, provides to the Energy Division of the Oak Ridge National Laboratory. These citations were selected from a comprehensive file of over 3000 documents concerning transportation energy consumption and conservation. This on-line retrievable data base is continually expanded and updated.

AVAILABILITY OF REPORTS

If no information on document availability is provided, or if only a price is listed, the document may be obtained from either the corporate author or the sponsor. Explanation of other availability information in citations is given below:

GPO — For sale by the Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402
(Prices subject to change)

NTIS — For sale by the National Technical Information Service
U.S. Department of Commerce
Springfield, Virginia 22161
(Prices subject to change)

REVIEWS OF SELECTED STUDIES

COMPARISON OF U.S. ENVIRONMENTAL PROTECTION AGENCY
FUEL ECONOMY RATINGS WITH ON-THE-ROAD EXPERIENCE

The U.S. Environmental Protection Agency (EPA) fuel economy ratings provide a complete data base for estimating fuel economy trends, but there has been much debate concerning whether these ratings are representative of actual fuel economy experienced on the road. Energy and Environmental Analysis, Inc., in collaboration with the U.S. Department of Energy, has completed the first significant contribution towards resolving this issue.¹ Their study addresses whether EPA certification test results reflect actual on-the-road fuel economy for recent model years (1974-1977) and whether improvements in average EPA fuel economy with successive model years can be viewed as an expected reduction in actual fuel consumed per automobile-mile.

In its current phase, the study restricts its attention to available fuel economy measurements reported from (1) drivers' experiences (fleets and individual consumers) and (2) driving cycle results obtained from dynamometer and road tests. These observations, to be compared with each other and with EPA certification results published in the well-known mileage guide, fall into five categories:

1. Drivers' experiences

- a. Consumer driving records in which drivers kept track of gasoline purchased and miles driven. Although this is the most ideally suited data base for the analysis, this source consists primarily of surveys by private corporations (an automobile manufacturer and several oil companies).
- b. Owner estimates not based on actual measurements. These data are taken from the EPA emission factors program as well as from consumer complaint files.

2. Driving cycle results

- a. Fleet driving records from privately (several corporations) and publicly (state governments) owned fleets. This data base comprises more observations than any other on-the-road data source.

- b. In-use dynamometer tests, some of which were performed as part of the EPA emissions factor program. The remainder were carried out by several corporations (primarily oil companies), many of which supplied consumer driving records as well.
- c. Road tests which measure on-the-road fuel economy on prescribed driving cycles (e.g., Consumers Union).

Approximately 5000 in-use vehicles representing model years 1974 through 1977 comprise the data base summarized in Table 1.

The study systematically compares these observations with EPA certification test results on a model-to-model basis in search of various types of discrepancies:

1. Absolute differences between EPA ratings and on-the-road experience
2. Relative differences (i.e., whether the EPA-implied ranking of models corresponds with the ranking from actual experience)
3. Variation of the discrepancies over time (more minor effects, among manufacturers for example, are also explored)

The causes for the discrepancies, although discussed only briefly in the study, were seen to stem from two sources: (1) vehicle differences which reflect the extent to which the prototype EPA-tested vehicle represents all cars of that model type and which would be seen in a comparison of EPA certification ratings with in-use dynamometer results and (2) operational differences which would be seen in a comparison of the in-use dynamometer tests and on-the-road performance (the effect of variable driving practices among vehicles tested was felt to be suppressed in the aggregation of results for each model type).

Alternative statistical techniques were tested, and the final form of the regression analysis was based on a simple linear relationship between on-the-road and EPA fuel economy measurements:

$$\text{on-road miles per gallon} = \alpha + \beta * (\text{test miles per gallon}). \quad (1)$$

Within each of the five basic data types, the average of (often several) in-use results for each model was used to avoid undue weighting of a model with many observations. (The results changed significantly between individual and aggregated treatment of models.) A comparison of two data sets involved a linear regression (Eq. 1) of these average data by model type.

Table 1. Summary of data sources for comparison of in-use experience with EPA certification results

Source	Model year	Total number of data points	Fleet operations	Owners estimates	Consumer driving	Dynamometer tests ^a	Road tests ^a
EPA certification	1974-1977	1831				C	
Union Oil	1975	107				C	S
Dupont	1974-1976	66			X	C	
General Motors	1975-1976	1714			X		
Mobil Oil	1974-1977	63			X	C	
Shell Oil	1975-1977	30			X	C	
Motor Trend	1974-1977	121					0
Shell Canada	1975	46			X	C	
Consumer Letters	1974-1977	134		X			
Consumers Union	1975-1977	83					0
TRW	1974-1977	77	X				
Maryland Department of Transportation	1974-1977	845	X				
Maine Department of Transportation	1974-1977	18	X				
EPA emission factors data	1974-1976	1287		X		C	
Industrial hydrocarbons	1976	1	X				
J. Glass Leasing	1977	5	X				
New Jersey Department of Transportation	1974-1975	211	X				
Texaco Oil	1974-1977	38			X	C	
EPA	1974-1976	687	X				
API	1974-1975	4075	X				
AT&T	1976	3	X				
Amoco Oil	1974-1977	156			X		

^aDriving cycle: C - certification test procedure; S - SAE driving cycle; 0 - other.

Source: Compiled from B. D. McNutt, D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C. Tables 2a and 2b.

To determine which observations would provide a valid representation of on-the-road experience to compare with EPA tests, the five basic data types were analyzed with the following conclusions:

1. Road-test fuel economy results (Consumers Union and *Motor Trend*) are systematically higher than on-the-road experience.
2. Owner estimates compare quite closely with actual on-the-road measurements but are eliminated from the final analysis because of their inherent uncertainty. As expected, a separate set of owner estimates from consumer complaints are considerably lower than on-the-road experience, by an average of 1 mpg.
3. In-use dynamometer test results compare fairly closely with EPA ratings, with the results for each model year falling systematically above the ratings for low-mileage cars and below the ratings for high-mileage cars.
4. Fleet and consumer-driving fuel economy records give sufficiently similar results for all model years so that they can be combined for comparison with EPA tests.

With this preliminary analysis, fleet results combined with consumer-driving results were adopted as the data base most representative of on-the-road experience. These results were compared with EPA certification (composite, city) and in-use dynamometer test results.

The results of comparing these on-the-road results with EPA composite fuel economy ratings for each model year are summarized in the linear fits in Fig. 1. The EPA tests fairly closely approximate on-the-road experience for 1974 models; they are progressively less representative with each newer model year through 1977. The divergence is substantial for higher-mileage cars. This analysis suggests that, for a car whose actual fuel economy is 20 mpg, the EPA testing overestimates actual fuel economy by 20% in 1976 and 30% in 1977.

Throughout the analysis, the effects of vehicle mileage are obviously important but are difficult to quantify; the sample would ideally include 1974 model-year cars with fuel economy records from 1974, when they were new, as well as from a more recent year. In the study, no adjustment was made for vehicle mileage with the justification, supported by an earlier study, that fuel economy tends to improve during a vehicle's first few years.

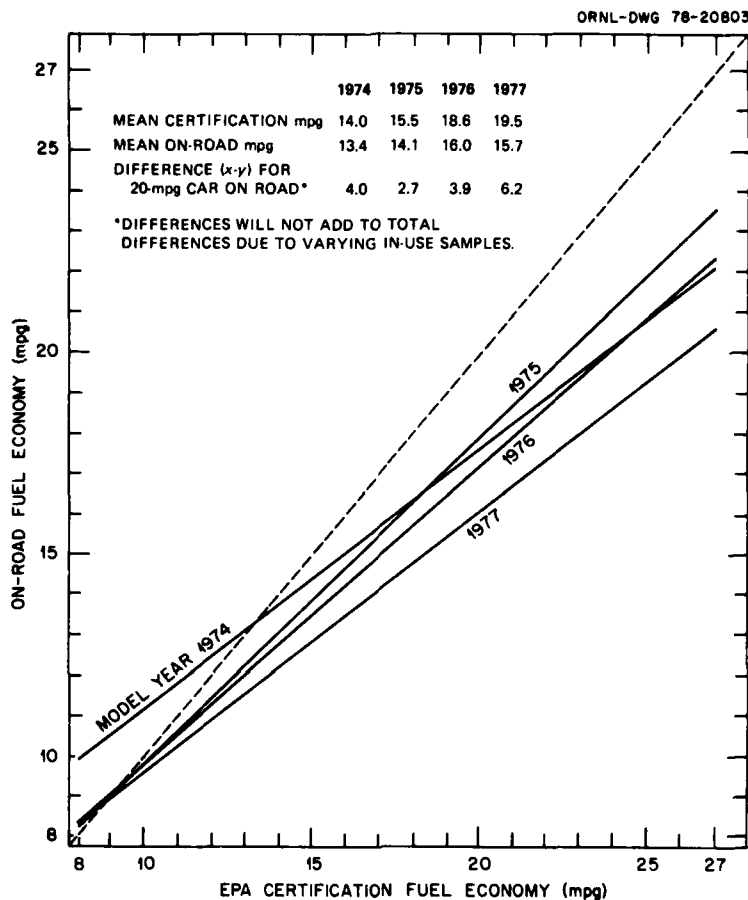


Fig. 1. Linear relation of EPA certification to on-road fuel economy for model years 1974 through 1977. Source: Compiled from B. D. McNutt, D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C. Fig. 8a-8d, pp. 31-34.

An interesting result is that if EPA city instead of composite results are used in the analysis, the same trend of increasing discrepancy with recent model years is evident. For 1974 models, EPA city tests underestimate on-the-road performance, but in 1977 they overestimate a 20-mpg performance by 15%. Thus, the EPA city rating, which is viewed by many as the "worst" fuel economy a car is likely to experience, actually underestimates actual mileage for recent models.

Given this absolute discrepancy between EPA results and actual fuel economy, an analysis of ranking was applied to the observations to determine whether EPA results provide a valid relative ranking of models for any model year. For each comparison, the likelihood of a reversal of rank for a given miles-per-gallon difference was calculated. For on-the-road compared with EPA results, the likelihood is 40% for a difference of 1 mpg but is only 10% if the results differ by 4 mpg. Because EPA composite tests for many models overestimate on-the-road performance by 4 mpg or more, the ranking may apply to more models than one could infer from the way the conclusions are presently stated in the report. In the next phase of the study, alternative ways of presenting the ranking analysis should be explored.

The study realistically presents its conclusions as preliminary, with plans for augmenting the data base and applying more sophisticated statistical methods. A major effort in augmenting the data base is needed. Answering unresolved questions and verifying preliminary conclusions will require a new large set of systematic measurements by individual drivers so that accuracy and consistency of data can be assured. (The small set of "consumer driving" data in this study were generated by corporations and to some extent may be inherently similar to fleet data.) With a planned extensive data collection program, vehicle mileage could become a significant variable in the analysis to help explain the trends seen for successive model years. Further resolution of EPA results versus actual fuel economy results is sufficiently important to warrant a major data collection effort. The methodology developed for this study may well serve as the model for future analyses of the problem.

References

1. McNutt, B. D., D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C.

Reviewed by
Margaret Fels
Princeton University
Princeton, New Jersey

THE CONGRESSIONAL BUDGET OFFICE'S REPORT ON
ENERGY USE BY URBAN TRANSPORTATION MODES

In response to a request from Senator Lloyd Bentsen, the Congressional Budget Office prepared a summary of existing estimates of energy consumption by urban transportation modes and presented a systematic methodology for using these estimates to compare the energy efficiency of these modes.¹ The overall goal of the study was to assess the energy conservation potential of available modes.

In order to include a complete range of contributions to the overall energy use, a hierarchy of four levels of comprehensiveness was developed, as shown in Fig. 1. *Energy intensiveness* measures the energy required to move the vehicle and is generally expressed as energy use per passenger-mile (propulsion energy use per vehicle-mile divided by the average occupancy per vehicle). *Line-haul energy* includes in the propulsion energy secondary energy contributions from vehicle manufacture, station operation, etc. *Modal energy* measures the average energy consumed per mile of a trip, which may include an access mode in addition to the main mode, and extra nonproductive travel miles (circuitry) due to transit routing. *Program energy*, the amount of energy saved per mile for a trip by the new mode when compared with the alternative mode used before the new mode was available, provides a measure of fuel savings to be attributed to new modes.

Because of the number of different estimates available for the components which make up these measures of energy efficiency, a range of estimates is carefully presented for each component. Tables 1 and 2 represent excellent summaries of existing estimates for vehicle propulsion energy and average occupancy. Similar tables for indirect energy requirements and access modes are included in the report. Tables 3-5 summarize the resulting middle estimate adopted in the study. Analogous tables are also provided for low and high estimates.

Although the estimates of line-haul and modal energy are valuable, the lengthy conclusions of the study are derived exclusively from the program energy. Unfortunately, as one proceeds up the hierarchy from energy intensiveness to program energy, the available data become very sparse and much less reliable. For example, the estimates of percentage of trip devoted to access are generalized from a single data point for the Lindenwold Line

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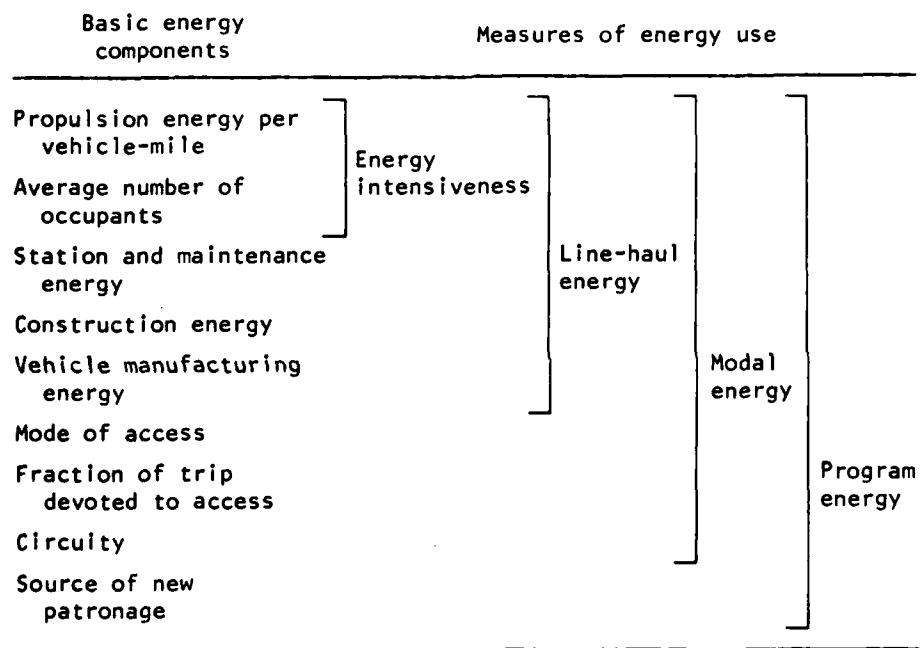


Fig. 1. Hierarchy of measures of energy use. Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. p. 8.

Table 1. Various estimates of vehicle propulsion energy for urban transportation modes: averages for general urban areas and specific cities (systems)

Mode of transportation	Vehicle propulsion energy ^a		City (system)
	(mpg) ^b	(Btu/mile)	
Automobile	7.5	16,790	General urban (six seat) ^e
	11.4	10,970	General urban ^d
	13.5	9,260	General urban ^e
	13.9	8,990	New York metropolitan area (1972) ^f
	15.0	8,330	General urban (four seat) ^g
	22.5	5,260	General urban (light car) ^g
Vanpool	9.0	13,900	Minneapolis ^h
Dial-a-ride	4.2	29,780	Los Angeles ⁱ
	7.0	17,850	General urban (gas vehicle) ^g
	7.3-9.0	13,900-17,130	Nine cities ^j
	13.5	9,250	General urban (diesel vehicle) ^g
	0.52	241,240	New York City (Staten Island Rapid Transit) ^k
Heavy rail (old)	0.52	240,880	Boston (includes light rail) ^k
	1.33	93,830	Cleveland ^k
	1.35	92,560	New York City (Transit Authority) ^k
	1.44	86,680	Philadelphia ^k
	1.71	73,180	New York City (Transit Authority) ^f
	1.72	72,880	New York/New Jersey (PATH) ^k
	2.02-3.31	37,800-62,000	Five cities (1964) ^l
	2.04	61,400	New York City (Transit Authority) ^m
	2.09	59,800	New York/New Jersey (PATH) ^m
	2.41	51,879	Chicago ^k
	4.00	31,300	Cleveland ^e

Table 1 (continued)

Mode of transportation	Vehicle propulsion energy ^a		City (system)
	(mpg) ^b	(Btu/mile)	
Heavy rail (new)	1.07	117,100	San Francisco (BART) ^k
	1.15	109,020	Philadelphia (Lindenwold) ^k
	1.23	101,780	San Francisco (BART) ⁿ
	1.44	86,900	Philadelphia (Lindenwold) ^o
	1.45	86,100	Philadelphia (Lindenwold) ^m
	1.78	70,080	San Francisco (BART, actual) ^m
	2.13	58,800	San Francisco (BART, projected) ^m
	2.23	56,175	San Francisco (BART, actual) ^p
	2.57-2.84	44,000-48,580	San Francisco (BART, projected) ^p
Commuter rail	0.80	154,500	San Francisco ⁱ
	0.96	129,900	San Francisco ^k
	1.14	109,350	Chicago (average) ^k
	1.21	103,500	New York (average) ^k
	1.21	103,000	Philadelphia (average) ^k
	1.27	98,213	Boston ^k
	1.80-2.90	43,150-69,540	Several cities (1964) ^l
	1.19	105,000	Philadelphia (SEPTA, city) ^g
	1.45	86,400	Philadelphia (SEPTA, Red Arrow) ^g
Light rail	1.54	81,284	Pittsburgh ^k
	1.66	75,147	San Francisco (MUNI) ^k
	2.17	57,750	Rochester (proposed) ⁱ
	2.41	51,992	Newark ^k
	3.6	34,940	New York City (Transit Authority) ^f
	3.6	34,740	General urban (local bus) ⁱ
	3.8	32,660	General urban ^g
	4.0	31,270	Atlanta (1976) ^q
Bus			

Table 1 (continued)

Mode of transportation	Vehicle propulsion energy ^a		City (system)
	(mpg) ^b	(Btu/mile)	
	4.1	30,500	Cleveland ^c
	4.4	28,430	Atlanta (projected, 2000) ^q
	4.8	26,310	Northern New Jersey ^f
	4.8	26,060	General urban (express bus) ^r
	5.6	22,330	Oakland (efficient bus) ^p
Personal rapid transit	6.2-13.1	9,560-20,205	Two systems ^g
	9.6-31.0	4,030-13,000	General urban ^c
Group rapid transit	4.2-15.4	8,100-30,000	General urban ^c
Shuttle loop transit	7.4-11.4	11,000-17,000	General urban ^c
	5.3	23,800	Dallas (Airtrans) ^c
	5.0	25,200	Dallas (Airtrans) ^r
Downtown people mover	1.75	71,400	Los Angeles (proposed) ^s

^aNot all sources have used the same conversion factors between different energy units. For consistency, estimates have been converted by using the following equations: 1 gal gasoline = 125,071 Btu and 1 kWh(e) = 10,500 Btu.

^bMiles per gallon of gasoline or equivalent.

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Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environmental and Public Works. Serial No. 95-8. Table 1.

Table 2. Various estimates of vehicle occupancy for urban transportation modes: averages for general urban areas and specific cities (systems)

Mode and city (system)	Vehicle occupancy (passenger-miles per vehicle-mile)	Load factor (passenger-miles per seat-mile)
Automobile		
National home-to-work and work-related travel ^a	1.4	0.28
Average for specific cities		
Philadelphia ^b	1.14	0.23
New Jersey ^c	1.12-1.24	0.22-0.25
Albuquerque ^d	1.43	0.29
Chicago ^d	1.43	0.29
San Diego ^d	1.48	0.30
Baltimore ^d	1.49	0.30
New York metropolitan area ^e	1.5	0.30
National urban area average ^d	1.63	0.33
Light rail		
Average for specific cities		
Newark ^f	9.4	0.15
Philadelphia (SEPTA, city) ^f	17.7	0.28
Philadelphia (SEPTA, Red Arrow) ^f	17.8	0.28
San Francisco ^f	23.6	0.37
Cleveland ^{d,f}	26.5	0.42
Pittsburgh ^f	27.8	0.44
Heavy rail		
Old systems		
New York/New Jersey (PATH) ^f	17.3	0.24
Chicago (1973) ^g	18.6	0.26
New York City (Transit Authority, 1973) ^g	19.7	0.27
Boston (includes light rail) ^f	25.6	0.36
Chicago ^f	20.7	0.29
Cleveland ^f	23.9	0.33
New York City (Transit Authority) ^f	25.0	0.35
Philadelphia (SEPTA) ^f	28.8	0.40
New systems		
San Francisco (BART) ^f	19.8	0.27
San Francisco (BART, 1975) ^g	21.4	0.30
Philadelphia (Lindenwold) ^f	22.5	0.31
National urban area average ^h	24.5	0.34
Urban bus		
Average for specific cities		
Albuquerque ^d	4.9	0.10
Southern Connecticut ^e	9.8	0.20
Chicago ^d	10.9	0.22
San Diego ^d	11.7	0.23

Table 2 (continued)

Mode and city (system)	Vehicle occupancy (passenger-miles per vehicle-mile)	Load factor (passenger-miles per seat-mile)
New York City (Transit Authority) ^e	13.8	0.28
Baltimore ^d	19.1	0.28
National urban area average, 1973 ^h	11.5	0.23
Dial-a-ride		
Nine cities ^h	1.00-2.86	0.05-0.15
Seven cities ⁱ	0.8-3.3	0.04-0.17
Median	1.62	0.09
Commuter rail		
Average for specific cities		
New York metropolitan area ^f	24.2	0.24
Boston ^f	25.6	0.26
Philadelphia ^f	29.4	0.29
New York metropolitan area ^e	32.2	0.32
Chicago ^f		
Burlington Northern	58.7	0.59
Chicago and Northwestern	47.7	0.48
Illinois Central	59.5	0.60
Milwaukee	50.2	0.50
Norfolk and Western	20.7	0.21
Rock Island ^f	36.7	0.37
San Francisco ^f	47.5	0.48
National urban area average ^h	42.6	0.43
Vanpool		
Minneapolis (3M Company) ^j	10.5	0.87
Carpool		
New York/New Jersey (Port Authority) ^k	2.94	0.59
El Segundo, California ^l	3.09	0.62
Boston ^m	3.16	0.63
Connecticut ⁿ	3.70	0.74

^aU.S. Department of Transportation, Federal Highway Administration. 1972. National personal transportation study. Report No. 1.

^bBoyce, D. E., et al. 1975. Impact of a suburban rapid transit line on fuel consumption and cost for the journey to work. Prepared for Federal Energy Administration.

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ⁿGudatis, C. 1977. Successful approaches to increased ride sharing in Connecticut. In Urban transportation efficiency. American Society of Civil Engineers.

Table 3. Middle estimates of basic components of operating energy intensiveness and line-haul energy by urban transportation modes (Btu/vehicle-mile)

Mode	Propulsion energy	Average number of occupants	Station and maintenance energy	Construction energy	Vehicle manufacturing energy
Single-occupant automobile	11,000	1.0	2,000	125	1,100
Average automobile	11,000	1.4	2,000	125	1,100
Carpool	11,000	3	2,000	125	1,100
Vanpool	14,000	9	2,000	200	2,000
Dial-a-ride	15,500	1.6	2,000	200	2,000
Heavy rail (old)	61,000	24	9,000	3,000	1,500
Heavy rail (new)	75,000	21	15,000	4,000	1,500
Commuter rail	105,000	40	7,000	1,200	2,500
Light rail	75,000	20	7,000	1,700	2,000
Bus	30,000	11.5	900	370	1,200
Personal rapid transit	11,000	2	5,000	300	1,000
Group rapid transit	20,000	6	6,000	600	1,000
Shuttle loop transit	23,000	10	7,000	600	1,000

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 7.

Table 4. Middle estimates of access, circuitry, and source of patronage by urban transportation modes

Mode	Mode of access (%)	Percentage of trip devoted to access	Circuitry (relative to trip by auto)	Percentage of new patrons by former mode
Automobile	NA ^a	0	1.0	NA
Carpool	NA	0	1.15	15 bus 25 carpool 60 single-occupant auto
Vanpool	NA	0	1.2	5 bus 40 carpool 55 single-occupant auto
Dial-a-ride	NA	0	1.4	10 bus 25 walk 45 auto (15 taxi) 20 new trip ^b
Heavy rail (old)	20 bus 40 auto 40 walk	15	1.2	NA
Heavy rail (new)	10 bus 70 auto 20 walk	18	1.3	45 bus 35 auto 10 new trip ^b 10 other
Commuter rail	5 bus 15 walk 80 auto	18	1.3	30 bus 40 auto 10 new trip ^b 20 other
Light rail	20 bus 50 walk 30 auto	10	1.2	50 bus 30 auto 10 new trip ^b 10 other
Bus (express)	25 auto 75 walk	10	1.1	25 bus 55 auto 10 new trip ^b 10 other

^aNA - Not applicable.

^bThere is no diversion from a former mode; a person who previously did not use a mode of urban transportation is using the new mode.

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 8.

Table 5. Middle estimates for various measures of energy requirements by urban transportation modes (Btu/passenger-mile)

Mode	Operating energy intensity	Line-haul energy	Modal energy	Program energy (net savings)
Single-occupant automobile	11,000	14,220	14,220 ^a	NA ^b
Average automobile	7,860	10,160	10,160 ^a	NA
Carpool	3,670	4,740	5,450	4,890
Vanpool	1,560	2,020	2,420	7,720
Dial-a-ride	9,690	12,310	17,230	(12,350) ^c
Heavy rail (old)	2,540	3,100	3,990	NA
Heavy rail (new)	3,570	4,550	6,580	(980) ^c
Commuter rail	2,625	2,890	5,020	970
Light rail	3,750	4,280	5,060	30
Bus	2,610	2,820	3,070	3,590 ^d
Personal rapid transit	5,500	8,650	e	e
Group rapid transit	3,330	4,600	e	e
Shuttle loop transit	2,300	3,160	e	e

^aBy definition, there are no access energy requirements for automobiles, so modal energy equals line-haul energy.

^bNA - Not applicable.

^cEnergy loss.

^dFor new express bus service. Conventional bus service would show smaller savings.

^eData not available for access modes and source of patronage since these modes are still largely under development.

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 9.

commuter rail service combined with the authors' judgement: "The access factor is likely to be smaller for systems that are less suburb-oriented and for those with more extensive line-haul networks (such as buses)." Data on access modes, circuitries, and sources of new patronage from new lines are similarly created. The conclusions based on this evaluation of program energy point to vanpooling and buses as offering the greatest energy conservation potential, with rapid rail transit demonstrating a negative program energy due to an overall increase in energy consumed for travel after the institution of the new system.

The latter conclusion generated considerable controversy and culminated in a large set of rebuttals which appeared in the hearings.² The negative program energy for rail transit originates to a great extent from new trips generated by a new system: the net energy effect of new trips is to add energy to the total energy use for travel. Many critics objected to this method of energy accounting for new trips which, over the longer run, might lead to even greater energy use in the absence of the new mode. In addition, the study was criticized for comparing modes on an average basis rather than in the context of specific systems.

These comments notwithstanding, the Congressional Budget Office study presents the best, most concise summary of estimates of energy use by existing modes in the literature. Used in the proper context, these estimates can be valuable input for energy analyses of urban transportation systems.

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THE ENERGY INFORMATION ADMINISTRATION'S 1977
ANNUAL REPORT TO CONGRESS

*The Energy Information Administration 1977 Annual Report to Congress*¹ outlines the activities of the Energy Information Administration (EIA) in 1977, presents historical data on the energy situation, and gives projections for energy development and use through the year 2000. The report is published in three volumes. Volume I describes the organization, responsibilities, activities, and accomplishments of each office within EIA. Volume II, *Forecasts of Energy Supply and Demand*, presents separate short-term and mid-term projections, assuming the continuation of existing energy policies, but with assumed variations in levels of economic growth, growth of oil and gas production, and real price in world oil. Volume III, *Statistics and Trends of Energy Supply, Demand, and Prices*, contains statistical charts and tables of exploration, development, production, processing, distribution, sale, and consumption of various energy sources, both past and present.

The EIA report is significant because it not only presents the current state of the energy situation, but it also forecasts the effects of existing energy policy. According to EIA, the United States has been a net importer of fossil fuels since 1953, with the gap between imports and exports increasing steadily. All EIA projections imply that existing U.S. energy policy will not be able to reduce this growing dependence on imports.

Assuming the continuation of existing energy policy, EIA projects that energy use through 1990 will grow at a lower rate than the growth rate experienced since 1960. This lower rate of energy use is a result of conservation and of consumer reaction to higher energy prices. However, domestic energy production is projected to increase at lower rates than the projected increase in consumption. Although rapid increases are projected in the domestic supply of coal, nuclear, and other domestic fuel sources, total domestic oil and gas production is projected to decrease or, at best, to be sustained at current levels. Thus, dependence on foreign oil and other imports will continue to grow.

The short-term and mid-term EIA projections were obtained from an integrated framework of several models incorporated with macroeconomic forecasts and energy supply and price assumptions (Fig. 1), assuming the continuation of existing energy policies. These assumptions were used to prepare projections based on combinations of energy demand, domestic energy supply, and increasing world oil prices. Because of possible future resource and environmental limitations on existing energy systems and because of EIA's use of historical relationships between economic growth and energy consumption, EIA did not make projections beyond the year 1990. Rather, they compared the EIA short-term and mid-term projections with long-term projections developed by other organizations. EIA's projections are in line with the range covered by these long-term projections.

The EIA report gives a historical view of the U.S. energy situation and an analysis of existing energy policy. Obviously, if these policies are changed, the results could vary widely. Thus, EIA's projections of the effect of new and emerging technologies are limited by the current governmental support for these technologies; any questions about the effects of more vigorous conservation efforts, new programs, and more support for the development of emerging technologies are not considered in this report.

References

1. Energy Information Administration. 1978. Energy Information Administration 1977 annual report to Congress. 3 vols. DOE/EIA-0036/1. U.S. Department of Energy, Washington, D.C.

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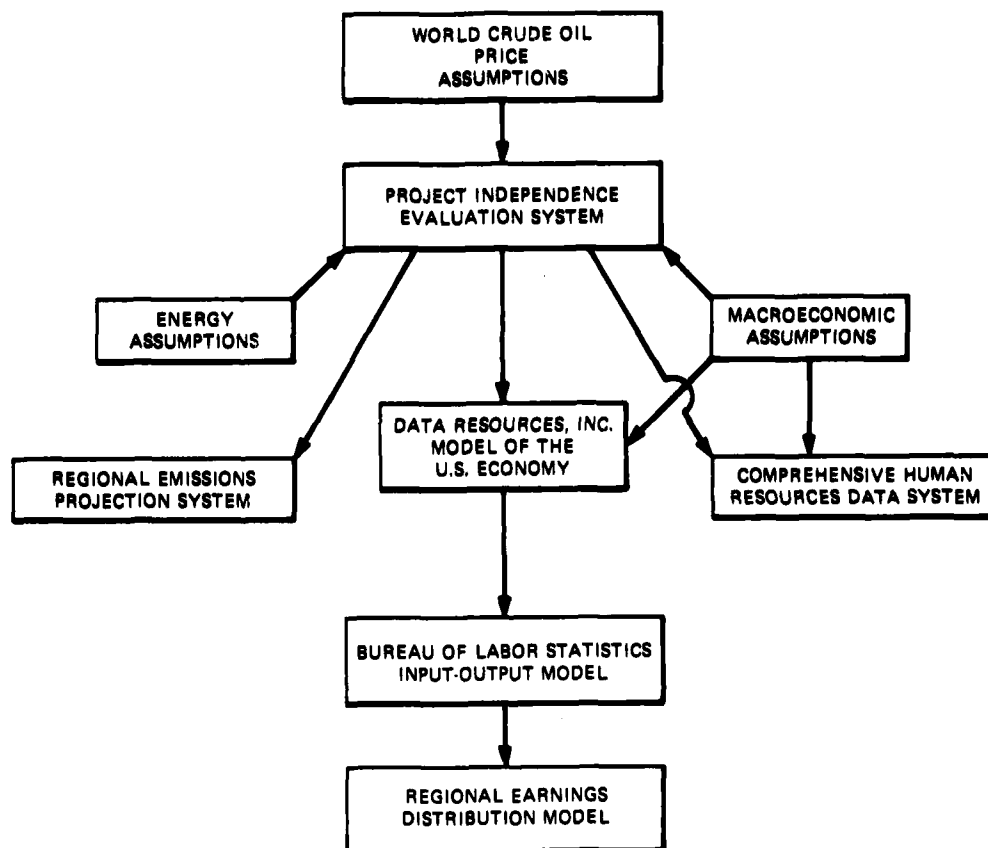


Fig. 1. Schematic representation of the energy/economic/environmental assessment system. Source: Adapted from Energy Information Administration. 1978. Energy Information Administration 1977 annual report to Congress, Vol. II. DOE/EIA-0036/1. U.S. Department of Energy, Washington, D.C. Fig. 2, p. 5.

THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM'S
REPORT ON ENERGY INTENSITY OF TRANSPORTATION MODES

In 1977 the National Cooperative Highway Research Program (NCHRP) compiled a synthesis (NCHRP Synthesis 43) of transportation practices entitled *Energy Effects, Efficiencies, and Prospects for Various Modes of Transportation*. It emphasizes an analysis of transportation energy use data, concentrating on total direct consumption and conservation potential. In addition to an original analysis of the data, the report presents summary data from recent studies.* Energy efficiencies derived by the various studies are listed without criteria for evaluation or comparison of their accuracies. The synthesis contains basic national energy consumption data and includes a breakdown by sector, a disaggregation within the transportation sector by transport mode, and a chart illustrating national energy trends.

The overall design, operation, and use of several passenger and freight transport modes are examined and related to the energy efficiency of that mode. The following data are presented in Chapter 2, which deals with passenger transport modes:

1. Passenger-miles
2. Transportation services rendered
 - a. Vehicle-miles per year
 - b. Passenger-miles per year
 - c. Average vehicle occupancy
3. Fuel consumption
 - a. Gallons per year
 - b. British thermal units per year with percentage of total direct transportation energy
4. Average efficiency
 - a. British thermal units per passenger-mile
 - b. Passenger-miles per gallon

*Data from Aerospace Corporation's *Characterization of the U.S. Transportation System* and the Oak Ridge National Laboratory's *Transportation Conservation Data Book: Edition 2* (ORNL-5320), both published after this report, are not included.

5. Fuel cost

- a. Percentage of total operating cost
- b. Percentage of total operating cost plus travel time cost

Some disaggregated data are presented for each mode.

Automobile use accounts for 90% of all passenger-miles and for 97% of passenger-miles in trips less than 30 miles; therefore, it is given special attention in this study. Average miles per gallon of the new car fleets in 1970, 1974, and 1975 and projected values for the new car fleets in 1980 and 1985 are presented. These projections reflect both the driving habits of the population and anticipated technological changes in automobile manufacturing. Automobile weight, a major factor affecting mileage, can be reduced by various technological adjustments. The predicted fuel consumption values resulting from these and other changes are listed in the NCHRP synthesis. Special attention is also given to automobile fuel consumption and efficiency related to trip purpose.

The presentation of freight transportation data (Chapter 3) is similar to that for passenger data. It includes data for various freight transport modes:

- 1. Transportation services rendered
 - a. Vehicle-miles per year
 - b. Ton-miles per year
- 2. Fuel consumption
- 3. Average efficiency
 - a. British thermal units per ton-mile
 - b. Ton-miles per gallon

Most of the passenger and freight transport data are derived from 1972 statistics. Truck data are given special attention; disaggregations by duty and weight class are presented.* Pipeline transportation analysis is incomplete and inaccurate because of lack of data.

The authors of this synthesis recognized the pitfalls of a straight comparison of energy consumption data or British thermal units per passenger-mile among the different transport modes. For example, in a

*Most waterborne statistics were taken directly from the U.S. Army Corps of Engineers, *Waterborne Commerce of the United States Part 5, National Summaries*, 1973.

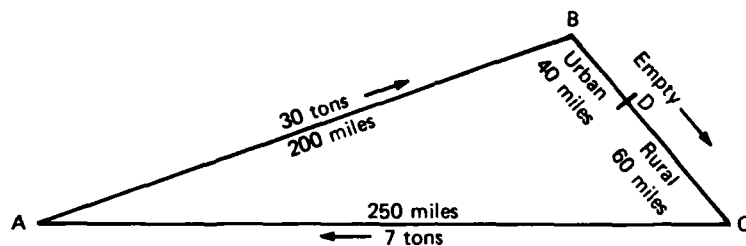
location with only one possible means of transportation (usually the automobile), a fair comparison cannot be made with other means of transport. Direct energy consumption and energy intensity alone are not always worthwhile information. Other factors such as the time factor and the hourly monetary value of the trip should be considered. In freight transport, British thermal units per ton-mile alone can be misleading. Some important factors to be considered in this case are the distance and speed at which the commodity is to be transported; the type, size, and density of the commodity; the cost of the commodity and the cost of its transport; and the availability of various transport modes. For example, water carriers transport long-haul bulk commodities; the railroads, dense commodities in large volume; and air carriers, small priority shipments. Trucks transport almost every commodity. The fact that the percentage of empty-haul-miles is different for each freight mode affects any comparison based strictly on British thermal units per ton-mile.

Figure 1, an example of a truck round trip, illustrates some of the factors that must be considered in analyzing energy efficiency. Varying any combination of percentage of empty-haul-miles, average miles per gallon, and amount and distance of cargo being hauled affects the energy efficiency results.

The authors asserted that their primary interest was not in restating the need for energy conservation or the need for implementation of policies to achieve greater conservation. However, a presentation of conservation techniques and a means for evaluation of the conservation potential of these techniques are presented in Chapter 4. For example, by using smaller cars Americans may save 361,000 bbl of gasoline per day; a savings of 84,000 bbl/day can be accomplished through the use of bus, train, and air carriers for intercity trips. Appendix B deals exclusively with fuel conservation techniques for automobiles and includes fuel economy potential by 1980 and 1985; relations among fuel economy, safety, and emissions; the effect of engineering and manufacturing "lead times" in forestalling implementation of fuel economy measures; test procedures to measure fuel economy; and means of enforcing an improvement standard.

The authors concluded that caution should be used in comparing energy efficiencies of the various transport modes. They also pointed to the need

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Full load out, long dead head for partial return load

A-B loaded, 30 tons, 200 miles at 3.5 mpg = 57.14 gal

C-A loaded, 7 tons, 250 miles at 4.8 mpg = 52.08 gal

37 tons 109.22 gal

Ton-miles = (30 tons) × (200 miles) = 6000 ton-miles

(7 tons) × (250 miles) = 1750 ton-miles

7750 ton-miles

B-D Empty, 60 miles at 6 mpg = 10.00 gal

D-C Empty, 40 miles at 3 mpg (urban stop and go) = 13.33 gal

23.33 gal

Total = 132.55 gal

Ton-miles/gal = 7750 ton-miles ÷ 132.55 gal = 58.47 ton-miles/gal

Tons shipped per gallon = 37 tons ÷ 132.55 gal = 0.2791 ton/gal

Empty mileage of 100 miles ÷ 550 miles = 18.18%

Fig. 1. Hypothetical example of intercity truck operations analyzed for fuel consumption. Source: Adapted from National Cooperative Research Program. 1977. Energy effects, efficiencies, and prospects for various modes of transportation. NCHRP Synthesis 43. p. 29.

for accurate data relating to the allocation of gasoline for automobile, truck, and nonhighway use and to estimates of vehicle-miles and auto occupancy values.

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OAK RIDGE NATIONAL LABORATORY'S REPORTS ON GASOLINE DEMAND

In 1978, Oak Ridge National Laboratory (ORNL) published two reports describing the results of an investigation of gasoline use across states: *An Investigation of the Variability of Gasoline Consumption among States*, ORNL-5391, and *Econometric Analysis of the Demand for Gasoline at the State Level*, ORNL/TM-6326. Utilizing data on state gasoline sales for highway use from 1966 to 1975, the study first documented the degree of variability of usage from state to state and then attempted to explain the observed variation via an econometric analysis. The models developed in the course of the study are explanatory in nature and were not designed to be used for forecasting gasoline use.

Highway gasoline sales, whether normalized by number of households, number of drivers, or number of vehicles, varied considerably from one state to another (Fig. 1). In terms of gasoline sales per registered vehicles in 1975, Arkansas was highest with 900 gal and Pennsylvania lowest at 589 gal. Gasoline sales per registered vehicle varied less than sales per household or per licensed driver. In short, large geographic differences were found in the amounts of gasoline used by residents of different states.

A two-stage approach was employed in the econometric analysis of the factors influencing gasoline sales per household. In the first phase a national gasoline demand equation was estimated for the time series (1966-1975) of aggregate state data (Hawaii and Alaska were omitted due to lack of data on gasoline prices). Explanatory variables in this equation were vehicle ownership per household, price of regular gasoline, personal disposable income, number of drivers per household, household size, and gasoline-powered trucks as percentage of all gasoline-powered vehicles. This last variable was included in an attempt to account for nonhousehold gasoline use. Given the high percentage of gasoline trucks which are light trucks for predominantly personal transportation, this variable must be considered a very crude measure. State dummy variables were also included in the equation to account for cross-sectional effects not captured by the other variables. These state-specific coefficients, which ranged from +300 to -307 gal/year, capture the average state deviation from consumption levels

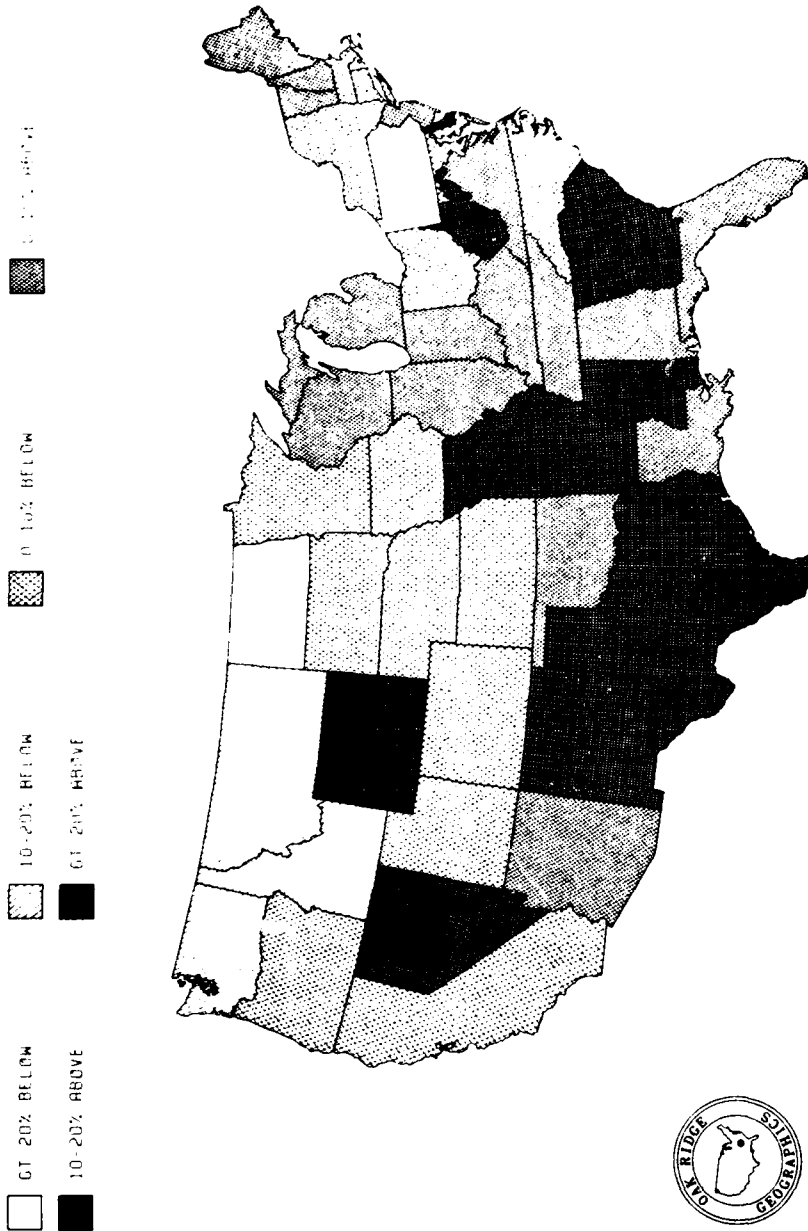


Fig. 1. 1975 gasoline consumption per vehicle. Source: An investigation of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 2, p. 7.

predicted by the national demand equation for the study period. The national demand equation contained an estimated price elasticity of -0.33 and an income elasticity of 0.31 , both within the range of existing estimates.

The results of the elasticity estimates of the national demand equation merely reinforce the findings of earlier studies. The ORNL study differs from earlier analyses in that it actually begins where the others ended. In the second phase of the analysis, the calculated average state deviations from predicted consumption levels were analyzed in an attempt to establish relationships between the deviations and individual state characteristics. The "state effects," as they are called, were regressed against a set of variables describing state spatial structure, physical geography, demographic factors, economic structure, and transportation infrastructure (Fig. 2). This analysis revealed that aggregate state gasoline use decreases with increasing population density, urbanization, agricultural employment, severity of winter weather, and small-car share of the vehicle fleet. Highway gasoline use increases as percentage of the population of working age and annual tourist expenditures per capita increase.

Although ORNL's study makes no policy recommendations, the findings clearly have implications for the regional effects of national transportation energy conservation policies. These findings imply that state consumption rates result from the complex interaction of environmental, economic, and demographic factors rather than from extravagant or frivolous gasoline consumption by the residents of certain states. Thus, one may expect policies such as fuel pricing or rationing to have differing impacts on the states largely due to factors beyond their immediate control.

The ORNL study has broken some new ground in the understanding of geographical patterns of energy use; however, the work leaves several questions unanswered. For example, a better understanding of the way business use of highway gasoline (and diesel fuel as well) varies geographically is clearly needed. Also, available data on state motor vehicle fleet compositions and fuel efficiencies were insufficient to test the importance of these factors in determining fuel use. Furthermore, additional investigation of alternative model specifications (such as allowing state-specific

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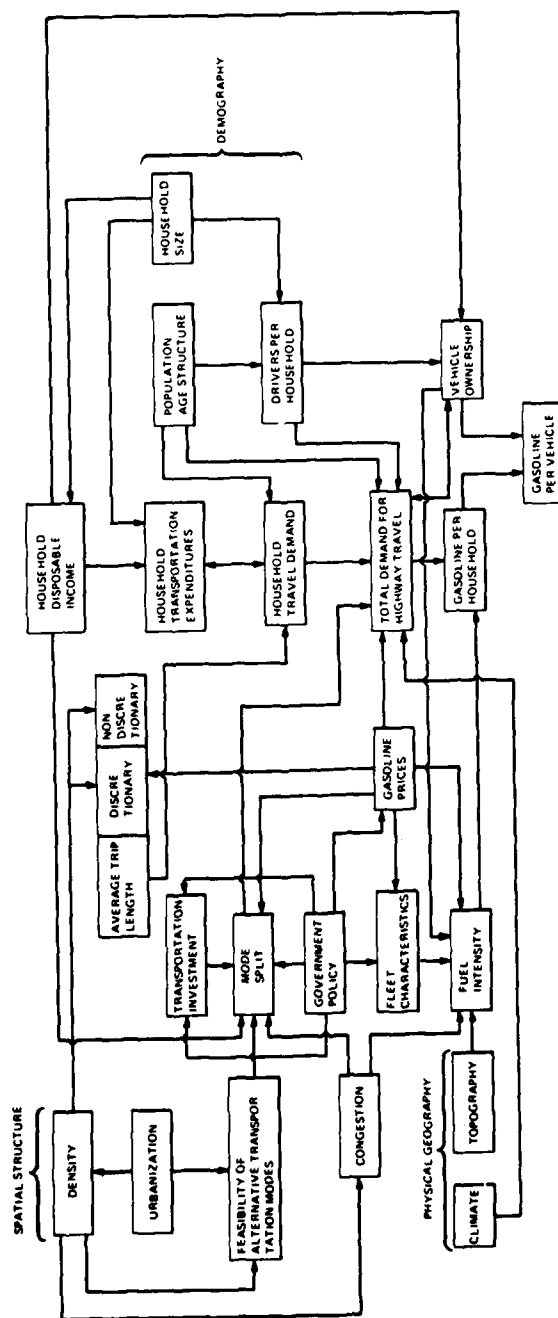


Fig. 2. Gasoline consumption per vehicle at the state level: a conceptual diagram. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 6, p. 20.

price and income elasticities) is needed if a predictive model capable of analyzing the regional impacts of transportation energy conservation policies is to be constructed.

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SRI'S REPORT ON DIESEL CARS IN THE UNITED STATES

The SRI report *Diesel Cars in the United States*,¹ published in August 1978, reviews existing data on the status of diesel autos in the United States and discusses prospects for energy savings through increased use of diesels. Experience with diesel cars in the United States is very recent and is limited primarily to luxury cars such as the Mercedes. Diesel sales totaled about 40,000 in 1977; the purchasers were predominantly highly affluent.

Manufacturers hope to devote a substantial fraction of production to diesel autos by 1985 in order to meet fleetwide fuel economy standards. There is, however, some doubt regarding diesels' capability of meeting legislated NO_x emission standards. Evidence shows that a shift to diesels could conserve fuel; however, the savings are not as great as one might expect after reading automobile advertisements. The diesel versions of many cars do get about 50% better mileage, but this estimate does not take into account the substantially reduced horsepower of the diesel; for gas and diesel engines of comparable power, the difference in mileage drops to 25%. Furthermore, because diesel fuel contains more energy per gallon, the report points out that if one also standardizes for fuel input energy, the difference in overall energy efficiency between gas and diesel engines is only about 11%. One compensating factor is that diesel fuel requires less energy to refine; the possible refinery savings are estimated at between 1% and 10%.

Major topics discussed in the SRI report include:

1. Status of diesel cars: descriptions of currently available models, their physical characteristics, prices as compared with comparable gasoline models, sales history, and manufacturers' plans for the future.
2. Geographical distribution: available data on sales by region for Mercedes and Peugeot (SRI cautions that demand for these autos exceeds supply, and sales patterns reflect corporate allocation procedures more than intrinsic demand; hence, regression analysis is not possible).
3. Fuel availability: data on number of diesel service stations by state and on diesel and gasoline prices by city.

4. Energy savings: comparison of fuel economy for diesel and gas autos; a refinery model is used to assess savings in refining energy produced by a decrease in the gasoline/diesel output ratio.
5. Auto emissions: brief presentation of current emissions standards, implications for diesel.
6. Opinions of owners: results of marketing surveys.

In general, the study is a concise presentation of existing information but it does not answer the crucial question, Will diesels find consumer acceptance?

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Reviewed by
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SRI'S REPORTS ON RAILROAD PASSENGER AND FREIGHT TRANSPORTATION

SRI has produced two companion studies, *Energy Study of Rail Passenger Transportation*¹ and *Energy Study of Railroad Freight Transportation*.² Each study consists of an executive summary volume and three analysis volumes. Overall, the two studies are very well done and represent a sound effort in dealing with a very broad but intricate problem.

Energy Study of Rail Passenger Transportation

Volume 1 of this study is the executive summary. Volume 2, *Description of Operating Systems*, is largely a technical discussion of existing rail passenger transportation facilities in the United States and of the measures used to describe these facilities. Definitions and descriptions of the modes to be considered are also provided. Because of difficulties in establishing baseline measures, either because of data availability or interpretation, the authors stated that the methods of assessing marginal, indirect, and joint impacts were sketchy in many places. The measures of system average intensity are British thermal units per passenger-mile and passenger-miles per gallon. The authors were thorough in developing measures of passenger service and estimates of energy use and energy intensity. The shortcomings of existing data were mentioned; however, the authors failed to identify what additional data should be collected.

Volume 2 contains a good, though brief, discussion of federal legislation that led to the National Rail Passenger Network (Amtrak). Wide variations in energy intensity across the system are noted; the estimates given lead to interesting conclusions about how to proceed with further development in terms of energy efficiency. The authors pointed out that given the same number of passenger-miles, older equipment is only about 10% less energy efficient than new equipment. However, if new equipment in the northeast rail corridor attracted significantly higher levels of patronage, substantial increases in efficiency would result.

For individual cities (regions) and existing heavy and light rail operations, facilities (track, stations, and equipment) as well as energy use are extensively analyzed. Cities included are Boston, Chicago, Cleveland, New York City and suburbs, Philadelphia, Pittsburgh, San Francisco,

and Washington, D.C. (preliminary). Fare schedules are also provided. In general, this volume is one of the better energy analyses of individual urban rail transit systems.

Volume 3, *Institutions*, briefly summarizes the institutions involved in rail passenger transportation. The somewhat superficial discussion covers the local, state, and federal agencies dealing with passenger services but does not deal with the interrelationships among those agencies. Also, from the perspective of this subject matter, energy, the study does not describe what role the respective agencies play in choosing modes in development situations.

Energy efficiency, improvements in energy efficiency, and the future of the industry are addressed in Volume 4, *Efficiency Improvements and Industry Future*. Energy demands are classified into direct, indirect, and capital energy demands. There is a good discussion of the technical methods of conserving energy, such as the use of single-end versus double-end controls on rail commuter vehicles. However, no estimates are made of how much could be saved either in specific cases or in more general situations.

Energy Study of Railroad Freight Transportation

Volume 1 of this study is an executive summary. Volume 2, *Industry Description*, contains a useful analysis and a good description for the novice in this field. Railroad operations such as train composition, switching and switching yards, and train control are detailed. Railroad costs are statistically analyzed. Using the Interstate Commerce Commission cost accounts and a model developed from the econometrics literature, the authors estimated that the long-run average cost tends to flatten after 500 miles of trackage; thus, efficient levels of operation are available to most Class I railroads. Costs are also estimated using the SRI model, which is labeled the "abstract railroad network." It divides rail operations into mainline rail, way train or branch delivery, switchyards and switching engines, and company costs. This approach tends to be mechanistic and therefore might overlook an item which an industry insider would consider essential to a particular operating plant.

Volume 2 outlines a potentially useful approach to low-density lines and to the abandonment of lines losing money (even on a short-run, marginal cost basis) but contributing to mainline traffic density. The authors stated, "It is possible that abandonment of low-density lines would create traffic losses for the remaining lines of such magnitude that average cost per ton-mile is not reduced or is increased."² They concluded that longer trains are more efficient than shorter trains, which raises the question of how much service should be provided with more frequent, shorter trains. This analysis does not balance the effects of rising energy costs with the economic need of the rail industry to compete with other transportation modes through increased service (i.e., shorter trains and more energy consumed). A useful discussion might have included how the industry's competitive position was worsened due to higher energy costs and the tendency to use longer trains.

Volume 3, *Regulation and Tariff*, is particularly well written. The summary of the regulatory history is concise yet deals more than adequately with the topic. The number of government agencies involved in the modern regulation of the railroads is sizable; these agencies include the Interstate Commerce Commission and state public regulatory agencies, as well as the Federal Railway Administration, the U.S. Environmental Protection Agency, and the Occupational Safety and Health Administration. The range of regulations (i.e., the activities covered) is extensive; this volume briefly summarizes the general categories.

An example of the type of analysis presented is an informative discussion of the tapering rail tariff, general revenue increases, and regulatory exceptions (holddowns) to the general increase. Most of the holddowns occur in the long-distance ranges for specific commodities tariffs, and thus, long-distance shipment becomes increasingly subsidized by other traffic and by the shorter-haul traffic of that specific commodity. This practice, of course, distorts an efficient allocation of resources and clouds the proper locational decision by users of these commodities. One result is that more energy is consumed in the shipment, and this amount is estimated using the long-run average cost model. Also discussed are the effects of regulatory policies on cost and energy consumption and the intricate details of handling empty freight cars, including the cost of moving empty cars and the energy cost of regulations requiring the return of empty cars after use.

Volume 4 is entitled *Efficiency Improvements and Industry Future*.

This volume indicates that the marketability of new technology is low at best, which is probably a very accurate portrayal of the current situation. According to SRI, impedances to adoption of technological advances include a capital-poor industry, low growth prospects, stringent government regulations, and a labor force which is reluctant to learn new skills without wage increases. Efficiency improvements discussed include the use of lighter equipment by eliminating the caboose and turbine locomotives; operational changes, such as reduction of empty-car mileage and reduction of routing circuitry; and equipment efficiency developments, such as flywheels and alternative fuels. The potential of each of these improvements, which appear as a shopping list, is evaluated, and the evaluations generally appear to be accurate. Intermodal cooperation and modal shifts to rail from more energy-intensive forms of transportation will produce additional savings in fuel consumption. At the center of this argument, however, is the issue of railroad service. Service is notoriously poor on some lines, and, as a first step, it must be improved before any of these potential savings will be realized.

Volume 4 concludes with recommendations. New hardware technology is at the top of the list; however, the chances of widespread development and adoption seem so poor that funding in this area may not prove to be cost-effective. Improvement in operations and intermodal systems analysis seem to be more likely. The final recommendation is for a relaxation of some regulatory policies; the mood in Washington seems favorable, and additional research in this area may hasten the relaxation process.

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TECNET TRANSPORTATION ENERGY USE MODEL

TECNET is a comprehensive transportation forecasting model based on an interindustry input-output model of the economy. Designed to explore the consequences of policy options, TECNET accepts a wide range of transportation-related parameters as input and produces a detailed analysis of the energy consequences of those parameters, featuring breakdowns by mode and urban or rural area. This study uses the TECNET model to explore ten possible future energy scenarios.¹

The importance of TECNET lies in its explicit accounting of indirect energy use in transportation. For example, the model can be used to determine how much energy is consumed in building and maintaining vehicles and facilities and in refining and distributing fuels. The input-output module of TECNET (based on INFORUM) permits the tracing of each industry's ultimate energy contribution to each transportation mode. In 1977, total transportation energy use was 1.42 times greater than direct or operating energy use.

Most important transportation variables of TECNET — mode split, load factor, and vehicle-miles traveled (VMT) per gross national product (GNP) — are exogenously specified and independent. This characteristic may be viewed as a severe shortcoming by the proponents of simulation models but as refreshing humility by their critics. In any case, a heavy burden is placed on the TECNET user, who must make his own assumptions about how these variables interact and their future values. In the hands of a knowledgeable analyst, the ability to specify so many major parameters can be a major advantage; however, unreasonable results can be easily generated if the user is not very careful. For example, in analyzing a gas rationing scenario the assumption is made that there is a simple proportional relationship between passenger-miles traveled (PMT) and gasoline consumption (i.e., a 25% decrease in gasoline supply causes a 25% decrease in PMT because auto load factor is assumed to stay constant). Or, as another example, the simple use of the model produces a result in which PMT is dependent on GNP only and is independent of the price of travel.

The *base case* assumes fleetwide auto mileage of 27.5 mpg by 1985 with no further improvement and continued reliance on internal combustion

engines, increased bus and rail share, slight decreases in energy intensity for all modes, and continuing urbanization. The result is that total energy use (direct and indirect) grows slowly at first, 1.4% annually, as small cars increase their share of the market. After 1985, however, a constant miles-per-gallon value is assumed through the year 2000, giving a 2.2% annual growth of all transportation energy.

The *high-conservation scenario* differs from the base case in two important respects: (1) industrial adherence to the National Energy Plan, including increased conservation measures and a shift to coal and (2) domination of the auto fleet by nonconventional engines — Brayton, Stirling, and electric. The result is 25% less energy use than in the base case by the year 2000. To isolate the contribution of the alternative engines, an *internal combustion engine (ICE) case* was run. The ICE scenario is identical to the high-conservation scenario except for its assumption of a 100% ICE auto fleet. This substitution results in 26% higher direct-energy consumption by automobiles than in the high-conservation case, but overall energy use increases by only 3%.

In a further exploration of the merits of non-ICE engines, separate scenarios were run for the *Stirling* and *Brayton* engines. These scenarios share economic and industrial assumptions with the base case, but they assume 100% market penetration of the respective engine types by 2000. Comparison of the two scenarios illustrates TECNET's strong points. Both engines conserve operating energy, but lower weight and smaller reliance on aluminum by the Brayton give it an advantage in indirect energy. In addition, the Brayton scenario indicates substantially less pollution.

A number of sensitivity analyses, all variations of the base case, can be performed. The *constant modal share* holds modal shares constant but reflects continuing urbanization. The *constant urban share* holds the urban proportion of the population constant and varies modal share.

The *shift scenario* is of particular interest because it illustrates the importance of considering indirect energy use. This scenario postulates a 10% decline in urban auto share (to the benefit of rail and bus transit) and 10% declines in auto and air shares of nonurban traffic; these shifts are to occur in the first quarter of the next century. The result is an energy bill higher than in the more auto-oriented base case

because indirect energy requirements per passenger-mile are one-third less for auto than for rail or air. This analysis is somewhat marred by a failure to distinguish between local rural travel and intercity travel; therefore, the model has increased urbanization resulting in decreased air PMT.

The *rationing scenario* explores the implications of a 25% reduction in gasoline sales to consumers during 1978. Not surprisingly, the economy registers a shift in expenditures from travel to luxuries. Even more surprising is the result, or assumption, that bus, rail, and air PMT will not increase and the counterfactual result that auto PMT falls by 25%.

Finally, the *constant scenario*, or "if this goes on" scenario, leaves modal shares and energy intensity values unchanged from current levels. Energy consumption in 2000 is 32% higher than in the base case.

These results must be interpreted with caution. TECNET is grandiose in scope. The values of most of the principal variables are not accurately ascertainable today, much less 25 or 50 years in the future. The lack of interaction among these variables is a serious flaw, and there is little explicit treatment of supply-and-demand forces. Nevertheless, TECNET appears to be a potentially useful tool for exploring policy options, especially in the short term.

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Reviewed by
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TRW'S STUDY OF INCREASED DIESEL CAR PRODUCTION

In view of the significant increase in diesel car production in the last two years, TRW has carried out a study¹ for the Office of Policy and Evaluation, U.S. Department of Energy, to examine the following three assumed levels of penetration of diesel cars into the new-car market:

1. Continued negligible penetration
2. Progressive penetration to 65% of new-car sales in 1995, at different growth rates:
 - a. Linear at 3% increase per year
 - b. Exponentially starting from 0.1% of new-car sales in 1977
3. Rapid penetration to 100% of new cars in 1982

Under each set of assumptions, the study estimates the increase in demand for diesel fuel (for automobiles), the resulting implications for refinery operations, and the potential petroleum savings.

As part of the TRW report, existing studies were reviewed. A useful index for measuring the change in the motor fuel mix is the gasoline-to-distillate ratio (G/D) whose current value is approximately 1.6. The findings of several relevant studies are summarized below in terms of this index.

1. Refinery operations
 - a. Exxon study: A new refinery in 1990-2000 could achieve as much diesel as gasoline output (G/D = 1.0).
 - b. Amoco and Mobil studies: The limit to refinery flexibility would be reached at G/D ratios of 0.6 to 0.7. A larger proportion of diesel (i.e., a lower ratio), if economical, would involve shifts in other product demands or new refining technology.
2. Diesel penetration
 - a. Amoco and Mobil studies: If the increased distillate production is all used in diesel cars, a G/D ratio of 0.7 amounts to total motor fuel production consisting of 30% diesel, which is sufficient to sustain 40% of the total U.S. automobile fleet. A reasonable time frame is considered to be 1985 or beyond.
 - b. Banner and Moore Associates study: Approximately 60% of the new-car fleet and 50% of the total car fleet in 1995 can be diesels,

with total motor fuel production including approximately 60% diesel fuels.

3. Petroleum savings

- a. Mobil and Banner and Moore Associates studies: A maximum petroleum savings of 5% would be achieved when diesel comprises 40% of the total motor fuel output.

Starting from these findings and building on an extensive in-house analysis of baseline transportation demand, the TRW study concludes that, in the near term, sufficient diesel output from refineries is feasible to meet demands even if the number of diesel cars increases rapidly:

1. High rate of penetration of diesels (all new cars in 1982 and beyond being diesels) would require major changes in refining operations by 1983-84, necessitating major planning by 1979 or 1980.
2. Intermediate penetration (3% linear increase in 1976 to 65% of new-car sales in 1995) would necessitate the attainment of a G/D ratio of 0.7 in 1985 and 0.6 in 1988.
3. Intermediate penetration starting at a low rate (0.1% exponential growth to 65% of new-car sales in 1995) would delay the need for a G/D ratio of 0.7 to 1995, and the limit of 0.6 would not be needed until 2000.

Thus, it appears that in all cases sufficient lead time would be available for refineries to accommodate the demand shifts resulting from significant increases in diesel car sales.

In contrast to these hypothesized situations, U.S. automobile manufacturers were found to anticipate a very slow growth of the diesel car population, with imported diesels expected to comprise less than 5% of the total import fleet by 1985. A potential barrier to rapid penetration of diesel cars is emission control. These control measures include the NO_x standard of 0.4 gpm, if enforced (diesels meet the current NO_x standard of 2.0 gpm), and particulate standards which would probably be introduced if the diesel car population were increased substantially.

The resulting petroleum savings from increased reliance on diesel cars would be small at first, with long-run savings dependent on the overall fuel economy of new diesels compared with conventional cars on the

road now. The study does not analyze projections of diesel fuel economy except to point out that increased fuel economy over the present level would serve to counteract any barriers to high diesel penetration.

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THE WHARTON EFA AUTOMOBILE DEMAND MODEL

The Wharton EFA Automobile Demand Model¹ is probably the most sophisticated model for forecasting long-run automobile demand currently in operation. The model, completed in 1977 for the Department of Transportation, Transportation Systems Center, is distinguished by its attention to detail in its extensive data base and its competent and sometimes innovative econometrics. The authors described their model as providing "long-run policy analysis and forecasting of annual trends for U.S. auto stock, new sales, and their composition by size class."¹ The basic model structure is that of lagged adjustment to "desired" levels of vehicle stock and composition which change in response to changing income, relative prices, and other factors.

With regard to their extensive data base, the authors stated, "It is our belief that the scope and magnitude of this data base is such that its potential usefulness rivals that of the model itself. For instance, we compiled 57 items of information for 2234 domestic cars (1947 to 1974) and 20 items for 982 foreign (1948 to 1975). In addition to this model specific data we compiled aggregate data on new registration and cars in operation, by state for 1969 through 1972, and for the United States for 1948 to 1974."¹ The potential of this extensive resource of automobile data is yet to be tapped by other researchers.

One unique data item constructed by Wharton for this model is a measure of total vehicle operating cost per mile. This measure includes the total stream of costs incurred over the vehicle's lifetime (both of purchase and operation) discounted to present value. This value is, in fact, the total cost of the vehicle to all its owners. Although it is debatable whether consumers actually take all these factors into account in purchase decisions, the variable was found to be a critical one in determining both desired stock and its desired composition by size class in the Wharton equations. The cost per mile includes transportation charges and taxes and new car prices including options, as well as expenditures on fuel, maintenance, and repairs. Unfortunately, it also requires critical assumptions about future miles traveled and discount rates.

The basic structure of the Wharton model is illustrated in Fig. 1. At its heart are modules which predict the total demand for automobile stock and the composition of new car sales by size class. The demand for

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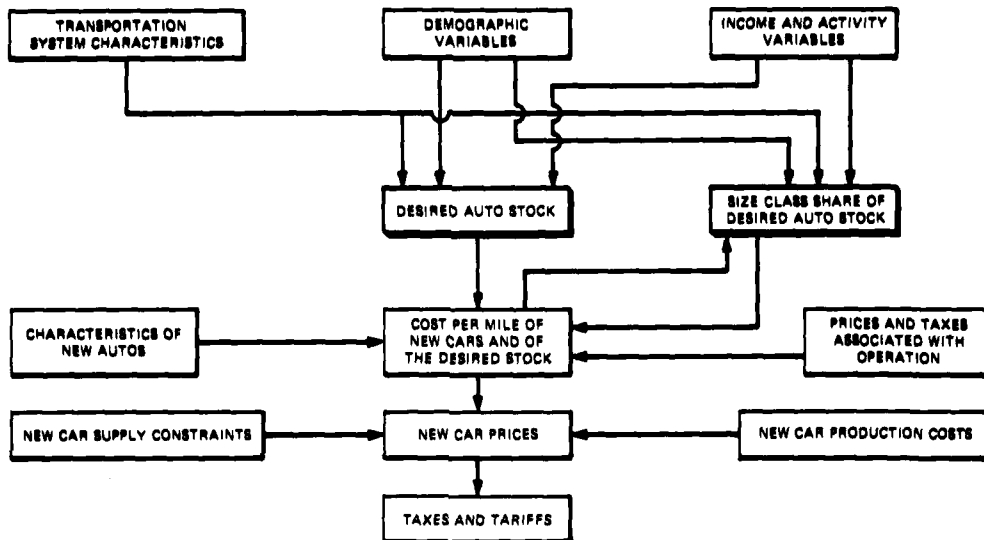


Fig. 1. Basic structure of the Wharton model. Long-run outputs are in boldfaced boxes. Source: Adapted from G. R. Schink and C. J. Loxley. 1977. An analysis of the automobile market: Modeling the long-run determinants of the demand for automobiles, Vol. I. Wharton EFA, Inc., Philadelphia. Chart 3B, p. 3-52.

stock model is an updated version of the familiar stock adjustment model introduced in the 1950s by Chow² and Nerlove.³ The key innovation in the Wharton model is the adaptation of the stock adjustment approach to the modelling of new car sales by size class. First, an equation was developed to forecast the "desired" size class composition of the vehicle fleet as a function of household size, income, the relative capitalized operating costs of the vehicles, public transit use, population age structure, metropolitan population, and regional dummy variables. Unlike typical stock adjustment models in which the "desired" demand equation is never

directly estimated, the authors chose to directly estimate a shares equation by making the heroic assumption that the size class composition of sales from 1972 to 1973 across states represented a long-run equilibrium size class distribution for the entire fleet. This is indeed a heroic assumption because it essentially requires that the existing size class shares in each state match the size class shares of new car sales. This assumption was not tested due to unavailability of data, but it is crucial to the correct application of the stock share adjustment approach. The Wharton model is the first of the several market shares demand models in existence to recognize that the existing distribution of motor vehicles can be adjusted only gradually to conform to changing consumer desires. The actual sales of vehicles by size class are expressed as a function of the gap between the desired and actual shares. This innovation is important because it is probably far easier to adjust the number of vehicles in the fleet than to adjust its composition over a short time.

Another distinctive aspect of the Wharton model is the way in which it estimates fuel efficiencies for vehicle classes. Rather than simply using a sales-weighted average calculated from data for a given year or years and then assumed to hold constant over time, the Wharton model estimates class-miles per gallon as a function of class-average inertial weight, engine displacement, transmission type, and fraction of the class with four or six cylinders. This approach allows the model to forecast future class-average miles per gallon, taking account of future changes in vehicle characteristics. These changes must be specified on the basis of the modeler's judgement. The model cannot directly consider the impact of new technologies. A tricky question which is not addressed is the stability of class market share relationships in the future as class characteristics change.

The Wharton model also contains equations for estimating annual vehicle-miles traveled (VMT) per family unit as a function of the age distribution of the vehicle stock (similar to the Sweeney model⁴), real gasoline cost per mile, real income, and the percentage of family units earning more than \$15,000 per year. The role of this VMT-estimating equation in the model is to predict total travel as an input to the demand for stock and scrappage. In conjunction with assumptions about the relative utilization of cars across size classes, however, the VMT estimate could

conceivably be combined with mileage estimates to forecast the demand for gasoline. This prediction was not made, and one senses it is largely because of dissatisfaction with the quality of the VMT data and the lack of data on VMT by car class. Finally, the model also contains subsidiary equations for analyzing the used car market in terms of total transactions and prices by class and vintage.

Though the Wharton model makes numerous assumptions, some of which are debatable, its complex specification and estimation, the breadth and depth of factors it considers, and the extensiveness of its data base cannot be matched by competing models. The Wharton model is the Cadillac of automobile-demand forecasting models.

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CONSERVATION, DEPARTMENT OF ENERGY

Aerospace Corp., Environment and Energy
Conservation Division, Mobile Systems Group
ADDRESS: El Segundo, CA 90245
TITLE: Lean Combustion in Automotive Engines: An
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Gasoline as Compared to Other Techniques

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1976, February

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: AUTOMOTIVE EMISSIONS; FUEL ECONOMY;
FUEL CONSUMPTION; GASOLINE; HYDROGEN;
COMPARATIVE EVALUATIONS; THERMAL EFFICIENCY;
TABLES (DATA); GRAPHS (CHARTS); ENGINES;
AUTOMOBILES; AUTOMOTIVE FUELS; HYDROGEN
FUELS; HYDROGEN STORAGE; PERFORMANCE
AVAILABILITY: NTIS

Airesearch Manufacturing Co.

TITLE: Study of Heat Engine/Flywheel: Hybrid
Propulsion Configuration with Electrical
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Report No. ALO-81/2, 19 p.
1978, April

SPONSOR: U.S. Dept. of Energy, Division of
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KEYWORDS: DESIGN; HYBRID ELECTRIC-POWERED
VEHICLES; FLYWHEELS; AUTOMOBILE
TRANSMISSIONS; SIZE; WEIGHT; PERFORMANCE;
MATERIALS; COSTS; DIAGRAMS

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Report No. ALO-81/1, v.p.
1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES;
FLYWHEELS; AUTOMOBILE TRANSMISSIONS; DRIVING
CYCLE; FUEL CONSUMPTION; COMPARATIVE
EVALUATIONS; COSTS; DIAGRAMS; GRAPHS
(CHARTS); DESIGN

Allen, W.N.; Larson, K.J.; Walker, B.N.
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ADDRESS: P.O. Box 2691, West Palm Beach, FL
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AUTOMOBILES; TURBINE BLADES; ENGINES; GAS
TURBINE ENGINES; DESIGN; MATERIALS;
FABRICATION; ROTORS; MANUFACTURING; DIAGRAMS;
GRAPHS (CHARTS); PHOTOGRAPHS; TABLES (DATA)
AVAILABILITY: NTIS

Anderson, D.W.
National Aeronautics and Space Administration,

Lewis Research Center
ADDRESS: Cleveland, OH 44135
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v.p.

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KEYWORDS: PROPANE; DIESEL FUELS; JET ENGINE
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OXIDES; EFFICIENCY; EMISSIONS; COMPARATIVE
EVALUATIONS; CATALYSTS; HIGHWAY
TRANSPORTATION; AUTOMOTIVE EMISSIONS; GRAPHS
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AVAILABILITY: NTIS

Argonne National Laboratory
ADDRESS: 9700 South Cass Avenue, Argonne, IL
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TITLE: Development of Lithium/Metal Sulfide
Batteries at Argonne National Laboratory:
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KEYWORDS: LITHIUM/METAL SULFIDE BATTERIES; ENERGY
STORAGE; MATERIALS; ELECTRODES; ELECTRIC
UTILITIES; ELECTRIC VEHICLES;
LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES;
DIAGRAMS
AVAILABILITY: NTIS

Bolger, J.G.; Kirsten, F.A.
Lawrence Berkeley Laboratory
ADDRESS: University of California, Berkeley, CA
TITLE: Investigation of the Feasibility of a Dual
Mode Electric Transportation System

Report No. LBL-6301, 159 p.
1977, May

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HIGHWAY TRANSPORTATION; TRANSPORTATION
SYSTEMS; ELECTRIC VEHICLES; ENERGY STORAGE;
DUAL MODE ELECTRIC TRANSPORTATION SYSTEM;
TABLES (DATA); DESIGN; MAGNETIC FIELDS;
GRAPHS (CHARTS); CALIFORNIA; COSTS; ALTERNATE
FUELS; COMPARATIVE EVALUATIONS; SAFETY
AVAILABILITY: NTIS

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ADDRESS: University of California, Berkeley, CA
TITLE: Test of the Performance and
Characteristics of a Prototype Inductive
Power Coupling for Electric Highway Systems

Report No. LBL-7522, 74 p.
1978, July

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: PERFORMANCE; TESTING; DESIGN; ELECTRIC
VEHICLES; DRIVING CYCLE; ENERGY STORAGE;
ELECTRIC HIGHWAY SYSTEMS; COUPLINGS; BATTERIES
AVAILABILITY: NTIS

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ADDRESS: 4330 East West Hwy., Bethesda, MD 20014
TITLE: Energy Use in the Marine Transportation Industry. Volume IV: Task III-Efficiency Improvements, Task IV-Industry Future

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1977, December

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Non-Highway Transport Systems
KEYWORDS: ENERGY CONSUMPTION; MARINE TRANSPORTATION; FORECASTING; CARGO TRANSPORTATION; GREAT LAKES; WATER TRANSPORTATION; WATERWAY TRANSPORTATION; COASTAL REGIONS; RECREATION VEHICLES; FISHING INDUSTRY; FUEL CONSUMPTION; TABLES (DATA);

Brennand, J.; Curtis, R.; Fox, H.; Hamilton, W.
General Research Corp.
ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105
TITLE: Electric and Hybrid Vehicle Performance and Design Goal Determination Study

Report No. SAN/1215-1, GRC Publication No.
CP-1-734, 197 p.
1977, August

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; PERFORMANCE; FUEL CONSUMPTION; LEAD-ACID BATTERIES; ENERGY STORAGE; URBAN TRANSPORTATION; PASSENGER TRANSPORTATION; TABLES (DATA); FUEL ECONOMY; OPERATING COSTS; GRAPHS (CHARTS); MODELS; STANDARDS; DESIGN

Bruck, H.W.; Bernier, J.; Bevilacqua, O.M.; Jones, D.W., Jr.
California, University of, Institute of Transportation Studies, California
ADDRESS: Berkeley, CA
TITLE: Trial Application of the Technology Implementation Planning Process: Selected New Automotive Engines

Draft Report, UCB-ITS-RR-77-11, v.p.
1977, September

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: AUTOMOTIVE ENGINES; PLANNING; TECHNOLOGY; DIESEL ENGINES; STIRLING ENGINES; FUEL EFFICIENCY; GOVERNMENT POLICIES; ALTERNATE FUELS; MANUFACTURERS; COSTS; UTILIZATION; AUTOMOTIVE INDUSTRY; PRODUCTION; COMMERCIALIZATION

Cataldo, R.I.
National Aeronautics and Space Administration, Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Response of Lead-Acid Batteries to Chopper-Controlled Discharge: Preliminary Results

Technical Memorandum, Report No. CONS/1044-1, NASA TM-73834, 8 p.
1978, February

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: LEAD-ACID BATTERIES; SIMULATION; ELECTRIC VEHICLES; VELOCITY; CONTROL; ELECTRIC DISCHARGES; CAPACITY; DESIGN; ENERGY LOSSES
AVAILABILITY: NTIS

Cook, J.A.; Fucinari, C.A.; Lingscheid, J.W.; Rahnke, C.J.
Ford Motor Co.
ADDRESS: Dearborn, MI
TITLE: Automotive Gas Turbine Ceramic Regenerator Design and Reliability Program. Final Annual Report for Period July 1, 1975 to September 30, 1976

Report No. COO-2630-18, 299 p.
1976, October

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: STIRLING ENGINES; HEAT EXCHANGERS; COSTS; PERFORMANCE; REGENERATORS; GAS TURBINE ENGINES; DIAGRAMS; GRAPHS (CHARTS); TABLES (DATA); STRESS ANALYSIS; THERMODYNAMICS
AVAILABILITY: NTIS

Cyrus, J.D.
Sandia Laboratories
ADDRESS: Albuquerque, NM 87115; Livermore, CA 94550
TITLE: Proceedings of the Hybrid Vehicle Interest and Capability Assessment Workshop

Report No. SAND 76-0645, conference held September 22-23, 1976, Albuquerque, New Mexico, 40 p.
1977, March

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES; CONFERENCES; HEAT ENGINES; SYSTEMS ANALYSIS; STORAGE; AUTOMOTIVE CONTROL SYSTEMS
AVAILABILITY: NTIS

Davis, D.D.; Renner, R.A.; Younger, F.C.; Epps, R.C.; Lerner, S.S.
Lawrence Livermore Laboratory
ADDRESS: University of California, P.O. Box 808, Livermore, CA 94550
TITLE: Determination of the Effectiveness and Feasibility of Regenerative Braking Systems on Electric and Other Automobiles. Volume I - Summary

Report No. UCRL-52306/1, 74 p.
1977, September 9

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; REGENERATIVE BRAKING; HISTORY; RECOVERY; UTILIZATION; FLYWHEELS; POWER TRAIN SYSTEMS; DIAGRAMS; BATTERIES; TABLES (DATA); GRAPHS (CHARTS); COSTS; FEASIBILITY
AVAILABILITY: NTIS

Davis, D.D.; Renner, R.A.; Younger, F.C.; Epps, R.C.; Lerner, S.S.
Lawrence Livermore Laboratory
ADDRESS: University of California, Livermore, CA 94550
TITLE: Determination of the Effectiveness and Feasibility of Regenerative Braking Systems on Electric and Other Automobiles. Volume II: Design Study and Analysis

Report No. UCRL-52306/2, v.p.
1977, September 9

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: AUTOMOBILES; ENERGY STORAGE; TECHNOLOGY; ELECTRIC VEHICLES; REGENERATIVE BRAKING; HISTORY; DEVELOPMENT; TESTING; TRANSPORTATION; COST ANALYSIS; TABLES (DATA); PATENTS; HYBRID ELECTRIC-POWERED VEHICLES; ENERGY CONSERVATION; BATTERIES
 AVAILABILITY: NTIS

Doggett, P.W.; Meyer, R.; Heller, M.
 International Research and Technology Corp.
 ADDRESS: 7655 Old Springhouse Rd.; McLean, VA 22101

TITLE: Ten Scenarios of Transportation Energy Conservation Using TECHNET

Report No. INT-17200/2-R, 107 p.
 1978, June

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Data Analysis Branch
 KEYWORDS: FORECASTING; MODELS; TRANSPORTATION; GASOLINE; RATIONING; ENERGY CONSERVATION; AUTOMOTIVE ENGINES; BRAYTON CYCLE; STIRLING ENGINES; INTERNAL COMBUSTION ENGINES; ECONOMIC IMPACT; ENERGY INTENSITY; MARKET; ENERGY CONSUMPTION; AUTOMOBILES; GROWTH; VEHICLE MILES TRAVELED; GROSS NATIONAL PRODUCT; MILEAGE; TABLES (DATA)

Donnelly, J.J., Jr.; Poessler, W.U.
 Aerospace Corp., Environment and Energy Conservation Division, Mobile Systems Group, Office of Energy Conservation
 TITLE: Fuel Consumption and Engine Horsepower Projections for the Highway Transportation Sector

79 p.

1978, April 28

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Office of Highway Systems, Heat Engine Systems Branch
 KEYWORDS: FUEL CONSUMPTION; HIGHWAY TRANSPORTATION; AUTOMOBILES; TRUCKS; BUSES (VEHICLES); MOTORCYCLES; MILEAGE; ENGINES; SALES; FORECASTING; WEIGHT; CLASSIFICATIONS; TABLES (DATA); SIZE; FUEL ECONOMY

Dustin, H.O.; Denington, R.J.
 National Aeronautics and Space Administration, Lewis Research Center
 ADDRESS: Cleveland, OH 44135
 TITLE: Test and Evaluation of 23 Electric Vehicles for State-of-the-Art Assessment

Report No. COMS/1011-21, NASA TN-73850, paper presented at the 1978 SAE Congress, Detroit, Michigan, February 27 - March 3, 1978, 24 p.

1978
 SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; TESTING; HYBRID ELECTRIC-POWERED VEHICLES; REGENERATIVE BRAKING; ENERGY CONSUMPTION; TABLES (DATA); GRAPHS (CHARTS); FUEL CONSUMPTION; PERFORMANCE

Exxon Research and Engineering Co., Government Research Laboratories, Science Application Inc., Combustion and Propulsion Technology Division
 ADDRESS: EP61, P.O. Box 8, Linden, NJ 07036;

SAI, 20335 Ventura Boulevard, Suite 423, Woodland Hills, CA 91368
 TITLE: Fundamental Characterization of Alternate Fuel Effects in Continuous Combustion Systems

Report No. TID-28463, Technical Progress Report No. 1, v.p.
 1978, January 11

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ALTERNATE FUELS; COMBUSTION; CHEMICAL PROPERTIES; MODELS; COMBUSTION PROPERTIES; MODPLS; GAS TURBINE ENGINES; HYDROGEN; NITROGEN; THERMODYNAMIC PROPERTIES; TURBULENT FLOW; DROPLETS; SPRAYS; DECOMPOSITION; OXIDATION; GRAPHS (CHARTS)
 AVAILABILITY: NTIS

Foster, R.W.
 Miami, University of, Ryder Program in Transportation; Escher Technology Associates
 ADDRESS: 501 Coral Gables, FL 33128; ETA, St John's, MI
 TITLE: Alternative Fuels and Intercity Trucking

Report No. HCP/H3294-01, 302 p.
 1978, June

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ALTERNATE FUELS; TRUCKS; INTERCITY TRANSPORTATION; TECHNOLOGY ASSESSMENT; ENERGY CONSERVATION; DIESEL ENGINES; TRACTORS; INTERNAL COMBUSTION ENGINES; FUEL CONSUMPTION; HIGHWAY TRANSPORTATION; OWNERSHIP; EMPTY BACKHAUL; ENERGY RESOURCES; COMMERCIALIZATION; DESIGN; DEMONSTRATION; TABLES (DATA); DIAGRAMS
 AVAILABILITY: NTIS

Foster, R.W.; Escher, W.J.D.
 Escher Technology Associates
 ADDRESS: St. Johns, MI
 TITLE: Hydrogen-Fueled Railroad Motive Power Systems, A Feasibility Study

Report No. COMS/4707-1, ETA-PR-70, 250

1976, September

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: HYDROGEN FUELS; RAIL TRANSPORTATION; ALTERNATE FUELS; FEASIBILITY; LOCOMOTIVES; DIESEL ENGINES; INTERNAL COMBUSTION ENGINES; MODIFICATIONS; PERFORMANCE; PHOTOGRAPHS; TABLES (DATA); GRAPHS (CHARTS)
 AVAILABILITY: NTIS

Goan, P.L.; Ivary, M.E.
 SRI International, Center for Resource and Environmental Systems, Chemicals and Resources Group
 ADDRESS: Menlo Park, CA 94025
 TITLE: Diesel Cars in the United States

72 p.

1978, August

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: MOTOR VEHICLES; DIESEL ENGINES; TRUCKS; AUTOMOTIVE EMISSIONS; STANDARDS; DIESEL FUELS; MARKETING; FUEL ECONOMY; COSTS; MANUFACTURERS; TECHNOLOGY; GASOLINE; SURVEYS; CONSUMERS; TABLES (DATA); ELECTRIC VEHICLES; PRODUCTION; SALES; AUTOMOBILES

Greene, D.L.; O'Connor, T.P.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: An Investigation of the Variability of
Gasoline Consumption Among States

Report No. ORNL-5391, 61 p.
1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch

KEYWORDS: DETERMINANTS; GASOLINE; FUEL
CONSUMPTION; MODELS; STATE ANALYSIS;
SOCIO-ECONOMIC FACTORS; AGE GROUPS;
EMPLOYMENT; TOURISM; VEHICLE MILES TRAVELED;
VEHICLE REGISTRATIONS; AUTOMOBILES;
OWNERSHIP; AUTOMOBILE DRIVERS; ENERGY DEMAND;
COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

Greene, D.L.; O'Connor, T.P.; Patterson, P.D.;
Rosa, A.B.; Shonka, D.B.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Regional Transportation Energy
Conservation Data Book. Edition 1

Report No. ORNL-5435 Special, 530 p.
1978, September

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: REGIONAL ANALYSIS; ENERGY CONSERVATION;
HIGHWAY TRANSPORTATION; FUEL CONSUMPTION; AIR
TRANSPORTATION; RAIL TRANSPORTATION; MARINE
TRANSPORTATION; PIPELINE TRANSPORTATION;
POPULATION (STATISTICS); ENERGY SUPPLIES;
STATE ANALYSIS; TABLES (DATA); INTERNATIONAL
ANALYSIS; VEHICLE MILES TRAVELED; MAPS;
GRAPHS (CHARTS); TRANSPORTATION MODE CHOICE;
TRAVEL; GASOLINE; AUTOMOBILES; TRUCKS; BUSES
(VEHICLES); DIESEL FUELS; NATURAL GAS;
TONNAGE; BOATS; CARGO TRANSPORTATION;
FORECASTING; IMPORTS; PETROLEUM; COMPARATIVE
EVALUATIONS
AVAILABILITY: NTIS

Gulf Research and Development Co.
ADDRESS: Pittsburgh, PA
TITLE: Passenger Car Fuel Economy in Short Trip
Operation: Alternative Fuels Utilization
Program

Report No. HCF/V4248, v.p.
1978, July

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: VEHICLE TRIPS; DISTANCE; AUTOMOBILES;
FUEL ECONOMY; GASOLINE; FUEL ADDITIVES;
TESTING; DRIVING CYCLE; DYNAMOMETERS; OCTANE;
SEASONAL VARIATIONS; AUTOMOTIVE EMISSIONS
AVAILABILITY: GPO, Stock No. 061-000-00112-3

Hamilton, W.
General Research Corp.
ADDRESS: Santa Barbara, CA 93105
TITLE: Electric Car Technology for Demonstration
and Development

Paper presented at the Fourth National Conference
on the "Effects of Energy Constraints on
Transportation Systems," held at Union
College, Schenectady, New York, on August
1-5, 1977, 26 p.

1977
SPONSOR: Energy Research and Development
Administration, Division of Transportation

Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TECHNOLOGY;
DEMONSTRATION; DEVELOPMENT; NICKEL-ZINC
BATTERIES; BATTERIES; LITHIUM-ALUMINUM/METAL
SULFIDE BATTERIES; LEAD-ACID BATTERIES;
PERFORMANCE; GRAPHS (CHARTS); ENERGY
CONSUMPTION

Hamilton, W.
General Research Corp.
ADDRESS: Santa Barbara, CA 93105
TITLE: Urban Applications and Energy Impacts of
Future Electric Cars

Paper presented at the Fourth National Conference
on the "Effects of Energy Constraints on
Transportation Systems," held at Union
College, Schenectady, New York, on August
1-5, 1977, 22 p.

1977
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: URBAN TRANSPORTATION; FORECASTING;
ELECTRIC VEHICLES; AIR POLLUTION; NOISE
POLLUTION; ENERGY CONSUMPTION; PETROLEUM;
LIFE-CYCLE COST; LOS ANGELES; PHILADELPHIA;
SAINT LOUIS (MISSOURI)

Hack, R.H.; Chang, H.; Hase, H.; Carrubba, R.
Engelhard Industries, a Division of Engelhard
Minerals & Chemicals Corp.
ADDRESS: Menlo Park, Edison, NJ 08817
TITLE: Durability Testing at One Atmosphere of
Advanced Catalysts and Catalyst Supports for
Automotive Gas Turbine Engine Combustors.
Part 1

Final Report, Report No. COMS/9446-1, NASA
CR-135132, 223 p.

1977, June
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: TESTING; CATALYSTS; AUTOMOBILES; GAS
TURBINE ENGINES; COMBUSTORS; PERFORMANCE;
EMISSIONS; PROPANE; DIESEL FUELS; AUTOMOTIVE
EMISSIONS; LIFE (DURABILITY); TABLES (DATA);
GRAPHS (CHARTS)
AVAILABILITY: NTIS

Hill, S.H.
Teledyne Continental Motors, General Products
Division
ADDRESS: 76 Getty Street, Muskegon, MI 49442
TITLE: Automotive Diesel Technology Program:
Final Report, Period June 1975-April 1977

Report No. SAN/1099-1, 122 p.
1977, August
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOMOBILES; DIESEL ENGINES;
TECHNOLOGY; RESEARCH PROGRAMS; FUEL ECONOMY;
DESIGN; AUTOMOTIVE EMISSIONS; SIMULATION;
EXHAUST RECIRCULATION SYSTEMS
AVAILABILITY: GPO

Hittman Associates Inc.
ADDRESS: Columbia, MD 21045
TITLE: Evaluation Methodology for Near Term
Devices and Strategies to Reduce Highway
Vehicle Use. Volume I: Technical Report.
Volume II: Appendices

Report No. RIT-695, v.p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HIGHWAY TRANSPORTATION; ENERGY
CONSERVATION; EFFICIENCY; FUEL ECONOMY;
FEASIBILITY; RETROFITTING; COMPARATIVE
EVALUATIONS; TRUCKS; AUTOMOBILES; MARKET;
PASSENGER TRANSPORTATION; CARGO
TRANSPORTATION; BUSES (VEHICLES); MODELS;
MOBILITY; ENVIRONMENTAL IMPACT; ECONOMICS;
GRAPHS (CHARTS); EQUIPMENT; GOVERNMENT
POLICIES; RETROFIT DEVICES

Ioward, E.B.; Barber, B.V.; Jordan, A.C.;
Seaborn, C.C.
Oak Ridge National Laboratory, Information
Division, Information Center Complex, Energy
Information Center
ADDRESS: Oak Ridge, TN 37830
TITLE: "Transportation Energy Conservation Data
Book: A Selected, Annotated Bibliography.
Edition 2

Report No. ORNL/EIS-114 (Part II of ORNL-5320),
272 p.
1977, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION; ENERGY
CONSERVATION; AIR TRANSPORTATION; ALTERNATE
FUELS; AUTOMOBILES; BUSES (VEHICLES); CARGO
TRANSPORTATION; PETROLEUM; DEMAND
(ECONOMICS); DIESEL ENGINES; ECONOMICS;
EFFICIENCY; ELECTRIC VEHICLES; ENERGY
CONSUMPTION; ENVIRONMENTAL IMPACT;
FORECASTING; FUEL CONSUMPTION; FUEL ECONOMY;
FUELS; GASOLINE; GOVERNMENT POLICIES;
LEGISLATION; MASS TRANSPORTATION; RAIL
TRANSPORTATION; STATISTICS; TRUCKS; URBAN
TRANSPORTATION; HIGHWAY TRANSPORTATION;
VEHICLES; WATER TRANSPORTATION; ABSTRACTS
AVAILABILITY: NTIS

Jelavich, H.S.
Faucett (Jack) Associates Inc.
ADDRESS: 5850 Wisconsin Avenue, Suite 1150, Chevy
Chase, MD 20015
TITLE: A Study of the Determinants of Freight
Modal Choice

Conference paper presented at Transportation
Research Board Meeting Session Number 143,
January 19, 1978, 21 p.

1978
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: CARGO TRANSPORTATION; DECISIONS;
WEIGHT; INPUT-OUTPUT ANALYSIS; COMMODITIES;
FORECASTING; MODELS; RATES (COSTS); DISTANCE;
DETERMINANTS

Keller, J.L.; Nakaguchi, G.H.; Ware, J.C.
Union Oil Co. of California, Research Dept.
ADDRESS: Brea, CA
TITLE: Methanol Fuel Modification for Highway
Vehicle Use. Final Report

Report No. HCP/W3683-18, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: METHANOL; ALTERNATE FUELS; ALCOHOL
FUELS; ENGINES; MODIFICATIONS; GASOLINE;
PROPERTIES; VEHICLES; UTILIZATION;
PERFORMANCE; ENVIRONMENTAL IMPACT;

TRANSPORTATION; WATER; TESTING; TABLES
(DATA); TOXICITY; SAFETY
AVAILABILITY: NTIS

Kirk, R.S.; Barber, K.F.
Mueller Associates Inc.
TITLE: A Pictorial Characterization of Worldwide
Electric and Hybrid Vehicles

Report No. COMS-770373, presented during the
March 1, 1977, conference on EPA's Electric
and Hybrid Vehicle Demonstration Project, 264
p.

1977, August 16
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: PHOTOGRAPHS; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; GERMAN FEDERAL
REPUBLIC; ISRAEL; NETHERLANDS; SWEDEN; UNITED
KINGDOM; FRANCE; ITALY; JAPAN; USA;
MANUFACTURERS; MARKET; RESEARCH; DESIGN;
INTERNATIONAL ANALYSIS
AVAILABILITY: GPO, Stock No. 060-000-00083-2

Leising, C.J.; Purohit, G.P.; DeGrey, S.P.;
Pinegold, J.G.
National Aeronautics and Space Administration,
Jet Propulsion Laboratory
ADDRESS: California Institute of Technology,
Pasadena, CA
TITLE: Utilization of Waste Heat in Trucks for
Increased Fuel Economy. Final Report

Report No. HCP/W1011-02, 30 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: WASTE HEAT; FUEL ECONOMY; UTILIZATION;
TRUCKS; DIESEL ENGINES; SPARK IGNITION
ENGINES; GAS TURBINE ENGINES; STIRLING
ENGINES; RANKINE CYCLE ENGINES; REGENERATION;
DRIVING CYCLE; ADIABATIC PROCESSES;
RECUPERATION; TURBOCHARGING;
TURBOCOMPOUNDING; GRAPHS (CHARTS); TABLES
(DATA); DIAGRAMS
AVAILABILITY: GPO, Stock No. 061-000-00111-5

Lindsey-Kaufman Co
ADDRESS: 53 Hamilton Place, Tenafly, NJ 07670
TITLE: Projection of Light Truck Population to
Year 2025

Report No. ORNL/Sub-78/14285/1, Special, 64 p.
1978, October
SPONSOR: Oak Ridge National Laboratory, Energy
Division, Regional and Urban Studies Section;
U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: TRUCKS; INVENTORIES; FORECASTING;
OWNERSHIP; GROWTH; HIGHWAY TRANSPORTATION;
UTILIZATION; VEHICLE REGISTRATIONS;
SOCIO-ECONOMIC FACTORS; VANS
AVAILABILITY: NTIS

LNC Corp.
ADDRESS: 476 Dunn Circle, Sparks, NV 89431
TITLE: Evaluation of Selected Drive Components
for a Flywheel Powered Converter Vehicle.
Final Report. Phase I

Report No. SAN/1164-1, LNC-770401-B, v.p.
1977, June 30
SPONSOR: Energy Research and Development

Administration, San Francisco Operations
Office: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: FLYWHEELS; ENERGY STORAGE; DIAGRAMS;
GRAPHS (CHARTS); ELECTRIC VEHICLES; TESTING;
MODELS; MOTORS; BEARINGS; SHAFTS; SEALS
AVAILABILITY: NTIS

Marcus, A.
Mechanical Technology Inc.
ADDRESS: 969 Albany-Shaker Road, Latham, NY
TITLE: An Advanced Electric Motor Transmission
for Electric Vehicles: Development Plan.
Technical Report

Report No. COO/2835-3, v.p.
1977, November
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: TECHNOLOGY ASSESSMENT; EFFICIENCY;
DESIGN; FABRICATION; ELECTRIC VEHICLES;
MODELS; TABLES (DATA); TRANSPORTATION; GRAPHS
(CHARTS); TESTING
AVAILABILITY: NTIS

Marcus, A.; Pinkus, G.
Mechanical Technology Inc.
ADDRESS: Latham, NY
TITLE: Characterization Study of an Electric
Motor-Transmission System for Electric
Vehicles: Technical Report

Report No. COO/2835-2, v.p.
1977, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
BATTERIES; TECHNOLOGY; TESTING;
SPECIFICATIONS; ELECTRIC MOTORS; EFFICIENCY;
AUTOMOTIVE ENGINEERING; COST ESTIMATES;
GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: NTIS

Martini, W.P.
Washington, University of, Joint Center for
Graduate Study
ADDRESS: 100 Sprout Rd., Richland, WA 99352
TITLE: Stirling Engine Design Manual
Final Report, Report No. DOE/NASA/3152-78/1, NASA
CP-135382, 370 p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration, Lewis
Research Center
KEYWORDS: STIRLING ENGINES; DESIGN; MANUALS;
BIBLIOGRAPHIES; PERFORMANCE; OPTIMIZATION;
SIMULATION; MODELS; DIAGRAMS; RESEARCH
AVAILABILITY: NTIS

McLean, A.P.; Baker, R.R.
Ford Motor Co.
ADDRESS: Dearborn, MI 48121
TITLE: Brittle Materials Design, High Temperature
Gas Turbine. Volume 2: Ceramic Turbine
Rotor Technology

Report No. ABRHC TR 78-1a, DA-OD 4733, 12th
Interim Report for the Period January -
September 1977, 93 p.
1978, March
SPONSOR: U.S. Dept. of Defense, Army Materials
and Mechanics Research Center; U.S. Dept. of

Energy, Division of Transportation Energy
Conservation
KEYWORDS: MATERIALS; DESIGN; GAS TURBINES;
CERAMICS; ROTORS; TECHNOLOGY; HIGH
TEMPERATURE; BRITTLENESS; FABRICATION;
SILICON NITRIDES; TESTING; COMPUTER PROGRAMS;
TABLES (DATA); GAS TURBINE ENGINES; SILICON
CARBIDES; MECHANICAL PROPERTIES; PHOTOGRAPHS;
DIAGRAMS
AVAILABILITY: NTIS

Mechanical Technology Inc., R&D Division
TITLE: Characterization Study of an Electric
Motor-Transmission System for Electric
Vehicles

Report No. HCP/M2835-01, v.p.
1978, March
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
AUTOMOBILE TRANSMISSIONS; TABLES (DATA);
GRAPHS (CHARTS)
AVAILABILITY: NTIS

Highdollar, P.; Hahn, W.F.
Booz, Allen & Hamilton Inc., Design and
Development Division
ADDRESS: Cleveland, OH 44131
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0595-78/1, NASA CP-13541, 140
p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; National
Aeronautics and Space Administration, Lewis
Research Center
KEYWORDS: POWER TRAIN SYSTEMS; ELECTRIC VEHICLES;
TECHNOLOGY ASSESSMENT; MOTORS; AUTOMOBILE
TRANSMISSIONS; MODELS; DESIGN; COMPUTERIZED
SIMULATION; DIAGRAMS; TABLES (DATA)
AVAILABILITY: NTIS

Hittal, R.K. (ed.)
Union College
ADDRESS: Schenectady, NY 12308
TITLE: Third National Conference on the Effects
of Energy Constraints on Transportation
Systems

Proceedings of a conference held at Union
College, Schenectady, New York, August 2-6,
1976, 408 p.
1977, May
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: TRANSPORTATION SYSTEMS; ENERGY
CONSUMPTION; ENERGY CONSERVATION; URBAN
TRANSPORTATION; BAY AREA RAPID TRANSIT
SYSTEM; CARGO TRANSPORTATION; RAIL
TRANSPORTATION; PASSENGER TRANSPORTATION;
REGULATIONS; CARPOOLING; TRUCKS; FUEL
ECONOMY; INTERCITY TRANSPORTATION; RAPID
TRANSIT SYSTEMS; AIR TRANSPORTATION; TABLES
(DATA); CONFERENCES; COMPUTERIZED SIMULATION
AVAILABILITY: GPO, Stock No. 060-000-00073-5

Hueller Associates Inc.
ADDRESS: Baltimore, MD
TITLE: Status of Alcohol Fuels Utilization

Technology for Highway Transportation

Report No. HCP/H2923-01, 132 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; UTILIZATION; ALCOHOL FUELS; HIGHWAY TRANSPORTATION; METHANOL; ETHANOL; TESTING; ENGINES; EMISSIONS; PERFORMANCE; FUEL ECONOMY; FUEL CONSUMPTION; COMPARATIVE EVALUATIONS; PROPERTIES; COSTS; GRAPHS (CHARTS); WATER
AVAILABILITY: NTIS

Queller Associates Inc.
ADDRESS: Baltimore, MD
TITLE: Denaturants for Ethanol/Gasoline Blends

Report No. HCP/H2098-01, 16 p.
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: ETHANOL; GASOLINE; ALTERNATE FUELS; DENATURANTS

National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: State-Of-The-Art Assessment of Electric and Hybrid Vehicles

Report No. HCP/H1011-01, v.p.
1978, January
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; EQUIPMENT; TESTING; TABLES (DATA); BATTERIES; SURVEYS; PERFORMANCE; ELECTRIC VEHICLE RANGE; ENERGY CONSUMPTION; RELIABILITY
AVAILABILITY: NTIS

National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH
TITLE: Twelve State-of-the-Art Individual Electric and Hybrid Vehicle Test Reports.
Volume I

Report No. HCP/H1011-03/1, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; TESTING; DRIVING CYCLE; ENERGY CONSUMPTION; PERFORMANCE; DESIGN; BATTERIES; TABLES (DATA); GRAPHS (CHARTS); MANUFACTURE
AVAILABILITY: NTIS

North Atlantic Treaty Organization, Committee on the Challenges of Modern Society
TITLE: Proceedings of the Fourth International Symposium on Automotive Propulsion Systems.
Volumes I and II

Report No. CONF-770830/1, symposium held in Washington, DC, April 18-22, 1977, 1038 p.
1978, February
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: CONFERENCES; PROPULSION; AUTOMOBILES; GAS ENGINES; AUTOMOTIVE FUELS; FUELS; DIESEL ENGINES; STIRLING ENGINES; RANKINE CYCLE ENGINES; ELECTRIC VEHICLES; HYBRID

ELECTRIC-POWERED VEHICLES; STRATIFIED CHARGE ENGINES; SPARK IGNITION ENGINES; AUTOMOTIVE EMISSIONS; POWER TRAIN SYSTEMS
AVAILABILITY: NTIS (when available)

Paul, F.W.; Negreanu, M.J.
Carnegie-Mellon University, Mechanical Engineering Dept.
ADDRESS: Pittsburgh, PA
TITLE: Applied Studies in Advanced Boiler Technology for Rankine Cycle Power Systems

Report No. COO/2633-3, v.p.
1978, February
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: BOILERS; RANKINE CYCLE POWER SYSTEMS; DESIGN; COMPARATIVE EVALUATIONS; TESTING; VAPOR GENERATORS; MODELS; SIMULATION; DIAGRAMS
AVAILABILITY: NTIS

Pefley, R.K.; Browning, L.H.; McCormack, H.C.; Hornberger, M.L.; Likos, W.P.; Pullman, B.
Santa Clara University, Dept. of Mechanical Engineering
ADDRESS: Santa Clara, CA 95053
TITLE: Characterization and Research Investigation of Methanol and Methyl Fuels

Report No. COO-1258-1, M.E. 77-1, 108 p.
1977, August
SPONSOR: U.S. Environmental Protection Agency, Motor Vehicle Emission Laboratory; Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; METHANOL; COMPARATIVE EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL ECONOMY; GASOLINE; PERFORMANCE; COMPUTERIZED SIMULATION; GRAPHS (CHARTS); TABLES (DATA); TESTING
AVAILABILITY: NTIS

Phoebe, C.H.
Gulf Research and Development Co.
ADDRESS: Pittsburgh, PA 15230
TITLE: Passenger Car Fuel Economy in Short Trip Operation. Technical Progress Report for Period May 1, 1977 - November 30, 1977

Report No. COO/4248-1, 23 p.
1977, November
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: FUEL ECONOMY; GASOLINE; HYDROGEN; METHANOL; FUEL INJECTION SYSTEMS; STIRLING ENGINES; GAS ENGINES; AUTOMOBILES; COMPARATIVE EVALUATIONS; DRIVING CYCLE; HIGHWAY TRANSPORTATION; ENERGY STORAGE; VEHICLE TRIPS; TESTING; FUEL CONSUMPTION; VEHICLE MILES TRAVELED; PHOTOGRAPHS; AUTOMOBILE OCCUPANCY
AVAILABILITY: NTIS

Pouliot, H.W.; Robinson, C.W.; Delameter, W.R.
Sandia Laboratories
ADDRESS: Livermore, CA
TITLE: A Variable-Displacement Spark-Ignition Engine

Final Report, Report No. SAND 77-8299, 108 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: SPARK IGNITION ENGINES; VARIABLE

DISPLACEMENT ENGINES; EXHAUST RECIRCULATION
SYSTEMS; AUTOMOTIVE EMISSIONS; FUEL ECONOMY;
MEASUREMENT; TESTING; DRIVING CYCLE; URBAN
TRANSPORTATION; MECHANICS; GRAPHS (CHARTS);
DIAGRAMS; HYDROCARBONS; NITROGEN OXIDES
AVAILABILITY: GPO, Stock No. 061-000-00108-5

Purdue University, Institute for
Interdisciplinary Engineering Studies
ADDRESS: West Lafayette, IN
TITLE: Opportunity and Risk Assessment of the
Electric and Hybrid Vehicle Research,
Development and Demonstration Act of 1976

Report No. HCP/H4250-01 (Previously issued as
COO-4250-1), 327 p.

1978, January
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; COMMERCIALIZATION;
FUEL DEMAND; COSTS; PERFORMANCE; TABLES
(DATA); ELECTRIC VEHICLE RANGE;
TRANSPORTATION; PETROLEUM; ENERGY
CONSERVATION; TECHNOLOGY ASSESSMENT;
INSTITUTIONAL FACTORS; SAFETY
AVAILABILITY: NTIS

Reilly, J.J.; Wiswall, R.H.; Waide, C.H.
Brookhaven National Laboratory, Dept. of Applied
Science
ADDRESS: Upton, NY 11973
TITLE: Motor Vehicle Storage of Hydrogen Using
Metal Hydrides. Final Report

Report No. TEC-75/001, 88 p.
1974, October

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HYDROGEN; HYDROGEN STORAGE; HYDRIDES;
AUTOMOBILES; MAGNESIUM HYDRIDES; ALUMINUM
HYDRIDES; DESIGN; STABILITY; COMPARATIVE
EVALUATIONS; TABLES (DATA); DIAGRAMS;
ALTERNATE FUELS
AVAILABILITY: NTIS

Woelke, R.J.; McLellan, K.L.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Cold-Air Performance of the
Compressor-Drive Turbine of the Department of
Energy Baseline Automobile Gas-Turbine Engine

Report No. DOE/NASA/1011-78/25, NASA TN-78894,
P-9480, 22 p.

1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: GAS TURBINE ENGINES; PERFORMANCE; US
DOE; AUTOMOBILES; AERODYNAMICS; VELOCITY;
TESTING; ENGINES; EFFICIENCY; EQUIPMENT;
MEASUREMENT; PRESSURE MEASUREMENT; GRAPHS
(CHARTS); DIAGRAMS; TEMPERATURE; TORQUE
AVAILABILITY: NTIS

Boh, E.A.; Wachman, J.P.; Duffy, T.E.
International Harvester Co., Solar Division
ADDRESS: 2200 Pacific Highway, San Diego, CA
92138
TITLE: Automotive Storage of Hydrogen Using
Modified Magnesium Hydrides

Report No. TEC-75/002, 55 p.

1975, July
SPONSOR: U.S. Environmental Protection Agency,
Office of Air and Waste Management, Office of
Mobile Source Air Pollution Control,
Alternative Automotive Power Systems
Division; Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HYDROGEN; AUTOMOBILES; MAGNESIUM
HYDRIDES; ENERGY STORAGE; ALTERNATE FUELS;
MAGNESIUM ALLOYS; RESEARCH; HYDRIDES;
REFUELING; TABLES (DATA); GRAPHS (CHARTS);
HYDROGEN STORAGE
AVAILABILITY: NTIS

Rosenberg, N.; Bufferd, A.; Coonley, P.;
Hamilton, W.; Kaiser, P.; Raber, P.T.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Institutional Factors in Transportation
Systems and Their Potential for Bias Toward
Vehicles of Particular Characteristics

Report No. HCP/H1043-01, CONS/1043-1, 428 p.

1978, February
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES;
INSTITUTIONAL FACTORS; LEGISLATION; TAXES;
REGULATIONS; ELECTRIC VEHICLES; TRAFFIC
CONTROL; GOVERNMENT POLICIES; AUTOMOTIVE
INDUSTRY; ELECTRIC POWER; BATTERY CHARGING;
VEHICLE PARKING; TABLES (DATA); REGIONAL
ANALYSIS; PRICES; RATES (COSTS); PETROLEUM;
URBAN AREAS
AVAILABILITY: NTIS

Ross, J.A.; Wooldridge, G.A.
Rohr Industries Inc., Advanced Transportation
Systems
ADDRESS: Chula Vista, CA 92010
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0592-78/1, NASA CR-135340,
RNR-78-035, 222 p.

1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; National
Aeronautics and Space Administration, Lewis
Research Center
KEYWORDS: ELECTRIC VEHICLES; DESIGN; POWER TRAIN
SYSTEMS; PERFORMANCE; ELECTRIC VEHICLE RANGE;
DRIVING CYCLE; EFFICIENCY; AUTOMOTIVE
ENGINEERING; TESTING; SIMULATION
AVAILABILITY: NTIS

Rowlett, B.H.; Murry, R.
Aircor Manufacturing Co.
ADDRESS: Torrance, CA
TITLE: Near-Term Electric Vehicle Program: Phase
1, Final Report

Report No. SAN/1213-1, 259 p.
1977, August

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; DESIGN; PERFORMANCE;
SAFETY; BATTERIES; TABLES (DATA); GRAPHS
(CHARTS); DIAGRAMS; ENERGY STORAGE;
ECONOMICS; COSTS; DEVELOPMENT; MODELS;
SIMULATION; LIFE-CYCLE COST; TRANSPORTATION
AVAILABILITY: NTIS

Rascitto, D.; McCormick, J.; Gray, S.
Mechanical Technology Inc.
ADDRESS: Latham, NY 12110
TITLE: Hydrodynamic Air Lubricated Compliant
Surface Bearing for an Automotive Gas Turbine
Engine. I - Journal Bearing Performance

Report No. COVS/9427-1, NASA-CR-135368, 148 p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration
KEYWORDS: TESTING; AUTOMOTIVE ENGINES; GAS
TURBINE ENGINES; BEARINGS; DESIGN;
PERFORMANCE; TEMPERATURE
AVAILABILITY: NTIS

Schnidt, F.W.; Wagner, C.E.
Chrysler Corp.
ADDRESS: Detroit, MI
TITLE: Baseline Gas Turbine Development Program.
Eighteenth Quarterly Progress Report

Report No. COO-2749-18, 261 p.
1977, April 30
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: GAS TURBINE ENGINES; DESIGN;
EFFICIENCY; FUEL ECONOMY; GRAPHS (CHARTS);
TABLES (DATA); DIAGRAMS; VEHICLES;
PERFORMANCE; DEVELOPMENT
AVAILABILITY: NTIS

Schwartz, M.J.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: New Batteries and Their Impact on Electric
Vehicles

Report No. ERDA/NASA 1011/77/3, NASA TM X-7362,
paper presented at the International Electric
Vehicle Exposition, held in Chicago,
Illinois, April 26-29, 1977, v.p.

1977
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; ELECTRIC VEHICLE
RANGE; COSTS; BATTERIES; PERFORMANCE;
COMPARATIVE EVALUATIONS

Schwarz, R.
ASL Engineering Inc.
ADDRESS: 405 South Fairview Avenue, Goleta, CA
93017
TITLE: Near-Term Electric Vehicle Program.
Phase 1, Final Report

Report No. SAN/1295-1, 304 p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; DESIGN; BATTERIES;
PERFORMANCE; TABLES (DATA); GRAPHS (CHARTS);
DIAGRAMS; LIFE-CYCLE COST; COSTS; EFFICIENCY;
ENERGY STORAGE; URBAN TRANSPORTATION; ENERGY
CONSUMPTION; ENERGY CONSERVATION; WEIGHT
AVAILABILITY: NTIS

Shonka, D.B.
Oak Ridge National Laboratory, Energy Division,

Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Characteristics of Automotive Fleets in
the United States: 1966-1977

Report No. ORNL/TN-6449 Special, 49 p.
1978, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOMOTIVE FLEETS; AUTOMOBILES;
INVENTORIES; PURCHASING; FUEL ECONOMY;
OWNERSHIP; SURVEYS; TABLES (DATA); SIZE;
VEHICLE REGISTRATIONS; VEHICLE MILES
TRAVELED; CHARACTERISTICS
AVAILABILITY: NTIS

Shonka, D.B.; Loebl, A.S.; Patterson, P.D.;
O'Connor, T.P.; Ogle, H.C.; Rose, A.B.;
Greene, D.L.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Transportation Energy Conservation Data
Book: Edition 2

Report No. ORNL-5320, 459 p.
1977, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ENERGY CONSERVATION; HIGHWAY
TRANSPORTATION; AIR TRANSPORTATION; RAIL
TRANSPORTATION; MARINE TRANSPORTATION;
PIPELINE TRANSPORTATION; STATISTICS; TABLES
(DATA); GRAPHS (CHARTS); VEHICLES;
REGULATIONS; ENERGY CONSUMPTION; DEMAND
(ECONOMICS); FUEL ECONOMY; FUEL CONSUMPTION;
AUTOMOBILES; ENERGY INTENSITY; TRAVEL; ENERGY
DEMAND; PASSENGER TRANSPORTATION; AUTOMOTIVE
FLEETS; PETROLEUM; SALES; PUBLIC
TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE
REGISTRATIONS; VEHICLE MILES TRAVELED;
FORECASTING; GOVERNMENT POLICIES; ENERGY
SUPPLIES; WATER TRANSPORTATION
AVAILABILITY: NTIS

Soltis, R.F.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: A Cycle Timer for Testing Electric Vehicles

Report No. DOE/NASA/1011-78/27, NASA TN-7893a,
2-9677, Technical Paper presented at the
Fifth International Electric Vehicle
Symposium sponsored by the Electric Vehicle
Council, Philadelphia, PA, October 2-5, 1978,
5 p.

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVING
CYCLE; VELOCITY; EQUIPMENT
AVAILABILITY: NTIS

Soltis, R.F.; Borek, J.M.; Denington, R.J.;
Dustin, R.O.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Baseline Tests of the Kordesch Hybrid
Passenger Vehicle

Report No. NASA TN-73769, COE/1011-14, 68 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; TESTING;

ACCELERATION; ELECTRIC VEHICLE RANGE;
PASSENGER TRANSPORTATION; FUEL ECONOMY; SPARK
IGNITION ENGINES; PERFORMANCE; DIAGRAMS;
GRAPHS (CHARTS); ENERGY CONSUMPTION
AVAILABILITY: NTIS

Soltis, R.P.; Dustin, H.O.; Sargent, W.B.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Results of Baseline Tests of the Lucas
Limousine

Report No. NASA TM X-73609, 27 p.
1977, January
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVE TRAIN
SYSTEMS; BATTERIES; PASSENGER TRANSPORTATION;
DRIVING CYCLE; PERFORMANCE; MILEAGE; ENERGY
CONSUMPTION; STANDARDS; PHOTOGRAPHS; GRAPHS
(CHARTS); ELECTRIC VEHICLE RANGE
AVAILABILITY: NTIS

Southwest Research Institute; Cameron Engineers;
Standard Oil Co. of Ohio; SOHIO Petroleum Co.
ADDRESS: SPI, San Antonio, TX; CE, Denver, CO;
SOHIO, Grand Junction, CO
TITLE: Identification of Probable Automotive
Fuels Composition: 1985-2000 and Executive
Summary

Report No. HCP/W3688-01/1, 218 p.; Report No.
HCP/W3688-01/2 for Executive Summary, 55 p.
1978, May
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; RAW MATERIALS;
AUTOMOTIVE FUELS; DIESEL FUELS; MARKET;
TRANSPORTATION; ENERGY FLOW; TABLES (DATA);
FORECASTING; ENERGY DEMAND; SYNTHETIC
PETROLEUM; REFINING; PROPERTIES; OIL SHALE;
ALCOHOL FUELS; AUTOMOBILES; METHANOL; COAL;
PRODUCTION; HYDROCARBONS; INTERNAL COMBUSTION
ENGINES; OCTANE; GASOLINE

Tacina, R.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Experimental Evaluation of
Premixing-Prevaporizing Fuel Injection
Concepts for a Gas Turbine Catalytic Combustor

Report No. CONS/1011-18, NASA TM-73755, paper
presented at the Winter Annual Meeting,
American Society of Mechanical Engineers,
Atlanta, Georgia, November 27 - December 2,
1977, v.p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: FUEL INJECTION SYSTEMS; ATOMIZATION;
EVAPORATION; DIAGRAMS; GRAPHS (CHARTS); GAS
TURBINES; CATALYSTS; COMBUSTORS; AUTOMOBILES
AVAILABILITY: NTIS

Tew, R.; Jefferies, K.; Hiao, D.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: A Stirling Engine Computer Model for

Performance

Report No. DOE/NASA/1011-78/24, NASA-TM-78884, 69
p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: STIRLING ENGINES; MODELS; PERFORMANCE;
THERMODYNAMIC PROPERTIES; SIMULATION;
COMPUTER PROGRAMS
AVAILABILITY: GPO, Stock No. 757-139/1201

Thermo Electron Corp.
ADDRESS: 101 First Avenue, Waltham, MA 02154
TITLE: Feasibility Test on Compounding the
Internal Combustion Engine for Automotive
Vehicles, Task II. Final Report

Report No. COO-2690-1, TE4193-76-75, 250 p.
1976
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: INTERNAL COMBUSTION ENGINES; DIESEL
ENGINES; RANKINE CYCLE ENGINES; PERFORMANCE;
FUEL ECONOMY; TRUCKS; DESIGN; GRAPHS
(CHARTS); DIAGRAMS; AUTOMOTIVE EMISSIONS;
FEASIBILITY; TESTING; WASTE HEAT; RECOVERY;
UTILIZATION; DEMONSTRATION
AVAILABILITY: NTIS

Tovle, W.L.; Graess, J.E.A.; Chilenskas, A.A.;
Ivins, R.O.
Argonne National Laboratory
ADDRESS: 9700 South Cass Ave., Argonne, IL 60439
TITLE: Cost Estimate for the Commercial
Manufacture of Lithium/Iron Sulfide Cells for
Load-Leveling

Report No. ANL-76-12, 67 p.
1976, March
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: COSTS; LITHIUM/METAL SULFIDE BATTERIES;
LOAD MANAGEMENT; UTILITIES; MANUFACTURING;
LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES;
PRICES; ECONOMICS; DIAGRAMS
AVAILABILITY: NTIS

U.S. Dept. of Energy, Nevada Operations Office
ADDRESS: Las Vegas, NV
TITLE: Driver Aid and Education Test Project.
Final Report

Report No. DOE/CS-0043, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOMOBILE DRIVERS; EDUCATION;
AUTOMOTIVE FUELS; FUEL ECONOMY; AUTOMOBILES;
TRUCKS; TESTING; MEASURING INSTRUMENTS;
DRIVING CYCLE; FEEDBACK; TABLES (DATA);
GRAPHS (CHARTS); MONTHLY VARIATIONS
AVAILABILITY: NTIS

Underhill, B.; Gott, P.; Hurter, D.; Mathews, H.;
Metcalfe, E.; Nicol, J.; Parry, J.; Stratton,
L.; Strong, S.; Sullivan, D.; Teeters, P.;
Whittier, A.
Little (Arthur D.) Inc.
ADDRESS: 25 Acorn Park, Cambridge, MA 02140
TITLE: Recommended Performance Standards for
Electric and Hybrid Vehicles

Report No. SAN/1335-1, 164 p.

1977, September

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; PERFORMANCE;
STANDARDS; RESEARCH; QUESTIONNAIRES; SURVEYS;
TABLES (DATA); GRAPHS (CHARTS)

Union College, Graduate Studies and Continuing
Education

ADDRESS: Schenectady, NY 12308

TITLE: Fourth National Conference on the "Effects
of Energy Constraints on Transportation
Systems"

Proceedings of a conference held at Union
College, Schenectady, New York, on August
1-5, 1977, v.p.

1977

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: TRANSPORTATION; CONFERENCES; ENERGY
SHORTAGES; PLANNING; EFFICIENCY; INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
CAPACITY TRANSPORTATION; RAIL
TRANSPORTATION; GOVERNMENT POLICIES; ELECTRIC

VEHICLES; RESEARCH; ENERGY CONSUMPTION

Wagner, J.R.; Naughton, J.; Brooks, W.P.; Davis,
R.

Brookhaven National Laboratory, National Center
for Analysis of Energy Systems

ADDRESS: Upton, NY

TITLE: Light Duty Highway Fleets: The Potential
for Alternative Technologies in Fleets
Operated by Corporations and State and Local
Governments

Interim Briefing, presentation will be published
as "Fleet Operator Vehicles: Summer 1977
Data," Report No. BNL-50904

1978, March 3

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation

KEYWORDS: AUTOMOTIVE FLEETS; MODELS; FORECASTING;
MARKET; VEHICLE REGISTRATIONS; AUTOMOBILES;
HYBRID ELECTRIC-POWERED VEHICLES; PURCHASING;
WEIGHT; EQUIPMENT; TRUCKS; HIGHWAY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CAPACITY; DIESEL FUELS; AUTOMOTIVE ENGINES;
SIZE; TABLES (DATA)

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Library of Congress, Congressional Research
Service, Environment and Natural Resources
Policy Division
ADDRESS: Washington, DC
TITLE: Federal Energy Reorganization: Historical
Perspective

Congressional Committee Print, 94th Congress, 2nd
Session, Serial No. 94-46 (92-136), 1359 p.
1976

SPONSOR: U.S. Senate, Committee on Interior and
Insular Affairs
KEYWORDS: ENERGY POLICY; HISTORY; GOVERNMENT
POLICIES; NATURAL RESOURCES; US FEA; US ERDA;
US DOE; BIBLIOGRAPHIES; INFORMATION;
LEGISLATION

<2>
Abbott, R.K.; Kirsten, P.A.; Mullen, D.R.;
Turner, D.B.
Lawrence Berkeley Laboratory
ADDRESS: University of California, One Cyclotron
Bld., Berkeley, CA 94720
TITLE: Locomotive Data Acquisition Package:
Phase 1. Final Report

Report No. LBL-7945, DOT/FRA/ORD/RRD-12, 125 p.
1978, September

SPONSOR: U.S. Dept. of Transportation, Federal
Railroad Administration, Office of Research
and Development
KEYWORDS: LOCOMOTIVES; RAILROAD CARS; DATA
ACQUISITION; DATA ACQUISITION SYSTEMS; DATA
PROCESSING; TRANSDUCERS; IMPACT SHOCK;
MECHANICAL VIBRATIONS
AVAILABILITY: NTIS

<3>
Abt Associates Inc.
ADDRESS: Cambridge, MA
TITLE: Impact of the FEA/EPA Fuel Economy
Information Program: An Evaluation of the
FEA/EPA Gas Mileage Label and 1976 Gas
Mileage Guide for New Car Buyers. Volume I:
Executive Summary

Report No. PB-266567, 31 p.
1976, June

SPONSOR: Federal Energy Administration
KEYWORDS: US FEA; FUEL ECONOMY; ENVIRONMENTAL
PROTECTION AGENCY; SURVEYS; AUTOMOBILES; FUEL
CONSUMPTION; GASOLINE; ATTITUDES;
INFORMATION; MILEAGE; CONSUMERS
AVAILABILITY: NTIS

<4>
Adams, Y.G.; Graham, H.; Griffin, J.H.
Pennsylvania, University of, Dept. of Economics,
Economics Research Branch
ADDRESS: Philadelphia, PA 19104
TITLE: Demand Elasticities for Gasoline: Another
View

Discussion Paper No 279, 15 p.
1974, June 15

KEYWORDS: ELASTICITY (ECONOMICS); GASOLINE;
ENERGY DEMAND; PRICES; MATHEMATICAL MODELS;
FUEL CONSUMPTION; VEHICLES; INCOME; DEMAND
(ECONOMICS); WEIGHT; SIZE; TIME SERIES
ANALYSIS

<5>
Adams, G.R.
National Technical Information Service
ADDRESS: 5285 Port Royal Road, Springfield, VA
22161
TITLE: Dual Mode Transportation (A Bibliography
with Abstracts)

Report No. NTIS/PS-77/0490 (supersedes
NTIS/PS-76/0352 and NTIS/PS-75/287), 161 p.
1977, June

KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION;
SOCIO-ECONOMIC FACTORS; URBAN TRANSPORTATION;
RAIL TRANSPORTATION; RAPID TRANSIT SYSTEMS;
PASSENGER TRANSPORTATION; BUSES (VEHICLES);
COSTS; REGIONAL PLANNING; ABSTRACTS; PERSONAL
RAPID TRANSIT; COMMUNICATION; DIAL-A-RIDE;
CARGO TRANSPORTATION; TRANSPORTATION SYSTEMS
AVAILABILITY: NTIS

<6>
Adams, G.H.
National Technical Information Service
ADDRESS: 5285 Port Royal Road, Springfield, VA
22161
TITLE: Tourism and Vacation Travel: State and
Local Government Planning (A Bibliography
with Abstracts)

Report No. NTIS/PS-77/0684 (supersedes
NTIS/PS-77/0575, NTIS/PS-77/0292,
NTIS/PS-76/0306, and NTIS/PS-75/148), 109 p.
1977, August

KEYWORDS: TRAVEL; ECONOMIC IMPACT; SOCIO-ECONOMIC
FACTORS; TOURISM; ECONOMIC DEVELOPMENT;
RECREATION; STATE GOVERNMENT; LOCAL
GOVERNMENT; PLANNING; LAND USE
AVAILABILITY: NTIS

<7>
Adams, G.H. (ed.)
National Technical Information Service
ADDRESS: 5285 Port Royal Road, Springfield, VA
22161
TITLE: Bus Transportation. Part 1. National and
General Studies (A Bibliography with
Abstracts)

Report No. NTIS/PS-77/0935, 213 p.
1977, October

KEYWORDS: BIBLIOGRAPHIES; BUSES (VEHICLES);
RESEARCH; SAFETY; MAINTENANCE; ENGINES;
PROPULSION; TRAVEL; DEMAND (ECONOMICS);
SCHEDULING; COSTS; SUBSIDIES; ENGINEERING;
HIGHWAYS; MODELS; TRAFFIC; CONFERENCES;
PLANNING; MARKETING; AIR POLLUTION; RATES
(COSTS); FORECASTING; SIMULATION; ABSTRACTS
AVAILABILITY: NTIS

<8>
Aerospace Corp., Energy and Transportation
Division, Transportation Group Directorate
ADDRESS: El Segundo, CA
TITLE: Mode Shift Strategies to Effect Energy
Savings in Intercity Transportation

Final Report, v.p.
1977, April

SPONSOR: Federal Energy Administration
KEYWORDS: INTERCITY TRANSPORTATION;
TRANSPORTATION SYSTEMS; ENERGY CONSERVATION;
TRANSPORTATION MODE CHOICE; MODELS;
FORECASTING; AIR TRANSPORTATION; RAIL
TRANSPORTATION; BUSES (VEHICLES);
AUTOMOBILES; RATES (COSTS); SOCIO-ECONOMIC
FACTORS; FUEL CONSUMPTION; TRAVEL; TABLES
(DATA); REGIONAL ANALYSIS

<9>

<9>

Aerospace Corp., Environment and Energy
Conservation Division, Mobile Systems Group
ADDRESS: El Segundo, CA 90245
TITLE: Lean Combustion in Automotive Engines: An
Assessment of the Addition of Hydrogen to
Gasoline as Compared to Other Techniques

Report No. CONS/1101-1, ATR-76(7526)-1, 328 p.
1976, February

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: AUTOMOTIVE EMISSIONS; FUEL ECONOMY;
FUEL CONSUMPTION; GASOLINE; HYDROGEN;
COMPARATIVE EVALUATIONS; THERMAL EFFICIENCY;
TABLES (DATA); GRAPHS (CHARTS); ENGINES;
AUTOMOBILES; AUTOMOTIVE FUELS; HYDROGEN
FUELS; HYDROGEN STORAGE; PERFORMANCE
AVAILABILITY: NTIS

<10>

Agnew, W.G.
General Motors Corp., Research Laboratories
ADDRESS: Warren, MI 48090
TITLE: Engines and Energy--Future Trends

Report No. GHR-2636, paper presented at the
Implications of Energy Conservation
Symposium, Colorado Springs, Colorado,
January 31, 1978, v.p.

1978, January 31
KEYWORDS: ENGINES; FORECASTING; FUEL ECONOMY;
SPARK IGNITION ENGINES; EFFICIENCY;
AUTOMOTIVE EMISSIONS; DIESEL ENGINES;
STRATIFIED CHARGE ENGINES; ELECTRIC VEHICLES;
GAS TURBINE ENGINES; METHANOL; HYDROGEN; FUEL
CELLS; ALTERNATE FUELS; BATTERIES; ALCOHOLS;
FEASIBILITY; OTTO CYCLE; BRAYTON CYCLE;
RANKINE CYCLE ENGINES; PHOTOGRAPHS; DIAGRAMS

<11>

Air Transport Association of America, Economics
and Finance Dept.
ADDRESS: 1709 New York Ave. NW, Washington, DC
20006
TITLE: Airline Financial Performance 1976-1977:
A Look at Earnings and Needs

87 p.

1977, January
KEYWORDS: FORECASTING; COMPARATIVE EVALUATIONS;
GRAPHS (CHARTS); AIR TRANSPORTATION; GROWTH;
ECONOMIC CONDITIONS; STATISTICS; FINANCIAL
DATA; EARNINGS; PROFITS; SERVICES;
PERFORMANCE; CAPITAL

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Airesearch Manufacturing Co.
TITLE: Study of Heat Engine/Flywheel: Hybrid
Propulsion Configuration with Electrical
Transmission System. Phase II Final Report:
Design Definition

Report No. ALO-41/2, 19 p.
1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: DESIGN; HYBRID ELECTRIC-POWERED
VEHICLES; FLYWHEELS; AUTOMOBILE
TRANSMISSIONS; SIZE; WEIGHT; PERFORMANCE;
MATERIALS; COSTS; DIAGRAMS

<13>

Airesearch Manufacturing Co.
TITLE: Study of Heat Engine/Flywheel: Hybrid
Propulsion Configuration with Electrical
Transmission System. Phase I: Final Report

Report No. ALO-41/1, v.p.

1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES;
FLYWHEELS; AUTOMOBILE TRANSMISSIONS; DRIVING
CYCLE; FUEL CONSUMPTION; COMPARATIVE
EVALUATIONS; COSTS; DIAGRAMS; GRAPHS
(CHARTS); DESIGN

<14>

Albers, J.P.; Bawiec, W.J.; Rooney, L.F.;
Goudarzi, G.H.; Shaffer, G.L.
U.S. Dept. of Interior, Geological Survey
ADDRESS: Washington, DC
TITLE: Demand and Supply of Nonfuel Minerals and
Materials for the United States Energy
Industry, 1975-90--A Preliminary Report

Geological Survey Professional Paper 1006-A,B,
v.p.

1976

KEYWORDS: MINERALS; FOSSIL FUELS; TABLES (DATA);
FORECASTING; COAL MINING; NATURAL GAS; SOLAR
ENERGY; GEOTHERMAL ENERGY; NUCLEAR ENERGY;
ENERGY CONSUMPTION; NUCLEAR POWER PLANTS;
HYDROELECTRIC POWER; URANIUM ORE; SYNTHETIC
FUELS; ENERGY DEMAND; ENERGY RESOURCES;
MATERIALS; REGIONAL ANALYSIS; COMMODITIES;
ELECTRIC POWER DEMAND; DEMAND (ECONOMICS);
SUPPLY (ECONOMICS)

AVAILABILITY: GPO, Stock No. 024-001-02867-1

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Allen, E.L.; Cooper, C.L.; Edmonds, F.C.;
Edmonds, J.A.; Reister, D.B.; Weinberg, A.H.;
Whittle, C.E.; Zelby, L.W.
Institute for Energy Analysis
ADDRESS: Oak Ridge Associated Universities, P.O.
Box 117, Oak Ridge, TN 37830
TITLE: U.S. Energy and Economic Growth, 1975-2010

Report No. ORAU/ISA-76-7, 95 p.

1976, September

SPONSOR: Energy Research and Development
Administration
KEYWORDS: ECONOMIC DEVELOPMENT; ENERGY DEMAND;
TECHNOLOGY; PRICES; GROSS NATIONAL PRODUCT;
FORECASTING; HISTORY; ENERGY CONSERVATION;
TABLES (DATA)

AVAILABILITY: NTIS

<16>

Allen, E.W. (ed.)
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Transportation Systems Center Bibliography
of Technical Reports: July 1970 - December
1976

Report No. DOT-TSC-OST-77-17, 234 p.

1977, April

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary
KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION;
AIRCRAFT; FUEL CONSUMPTION; NOISE (SOUND);
RAILROADS; URBAN TRANSPORTATION; VEHICLES;
ENVIRONMENTAL IMPACT; GOVERNMENT POLICIES;
REGULATIONS; AIR TRANSPORTATION; HIGHWAY
TRANSPORTATION

AVAILABILITY: NTIS

<17>
Allen, H.W.; Larson, K.J.; Walker, B.H.
Pratt & Whitney Aircraft Group, Government
Products Division
ADDRESS: P.O. Box 2691, West Palm Beach, FL
TITLE: Process Demonstration and Cost Analysis of
a Mass Production Forging Technique for
Automotive Turbine Wheels: Phase II. Final
Report, Period January 1975 Through March 1977

Report No. COO/2637-1, 75 p.
1977, July

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: DEMONSTRATION; PROCESSING; COST
ANALYSIS; PRODUCTION; FORGING; TURBINES;
AUTOMOBILES; TURBINE BLADES; ENGINES; GAS
TURBINE ENGINES; DESIGN; MATERIALS;
FABRICATION; ROTORS; MANUFACTURING; DIAGRAMS;
GRAPHS (CHARTS); PHOTOGRAPHS; TABLES (DATA)
AVAILABILITY: NTIS

<18>
Altendorf, J.P.; Kalberlah, A.
Volkswagenwerk AG
ADDRESS: Wolfsburg, Germany
TITLE: A Comparison Between the Primary Energy
Consumption of Electric and Gasoline Powered
Vehicles

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 21 p.

1976, September
KEYWORDS: ENERGY CONSUMPTION; ELECTRIC VEHICLES;
GASOLINE; COMPARATIVE EVALUATIONS; TESTING;
FUEL CONSUMPTION; EFFICIENCY; INTERNAL
COMBUSTION ENGINES

AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<19>
Altendorf, J.P.; Kalberlah, A.; Saridakis, N.
Volkswagenwerk AG
ADDRESS: Wolfsburg, Germany
TITLE: On the Relationship between Gross Vehicle
Weight, Payload, Effective Range, and Cost of
Electric Vehicles

Paper No. 780220, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

1978
KEYWORDS: ELECTRIC VEHICLES; WEIGHT; ELECTRIC
VEHICLE RANGE; COSTS; ENERGY STORAGE;
BATTERIES; PRICES; COMPARATIVE EVALUATIONS;
DRIVING CYCLE

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<20>
American Bus Association
ADDRESS: 1025 Connecticut Ave., Washington, DC
20036
TITLE: Report from the American Bus Association.
America's Number 1 Passenger Transportation
Service

33 p.
1977

KEYWORDS: BUSES (VEHICLES); GRAPHS (CHARTS);

TABLES (DATA); PASSENGER TRANSPORTATION;
ENERGY CONSUMPTION; FINANCIAL DATA; SAFETY;
INTERCITY TRANSPORTATION; REVENUE; AMTRAK;
COMPETITION

<21>
American Gas Association, Financial and
Administrative Section, Library Services
Committee
ADDRESS: 1515 Wilson Boulevard, Arlington, VA
22209
TITLE: Production and Use of Methanol (A
Bibliography 1960-1977)

22 p.

1977, August
KEYWORDS: METHANOL; ALTERNATE FUELS; UTILIZATION;
PRODUCTION; BIBLIOGRAPHIES; GASOLINE;
AUTOMOBILES

AVAILABILITY: Library, Northern Natural Gas
Company, 2223 Dodge Street, Omaha, NE 68102

<22>
American Nuclear Society Inc.
ADDRESS: 555 N. Kensington, Ave., La Grange Park,
IL 60525
TITLE: Proceedings of the 12th Intersociety
Energy Conversion Engineering Conference.
Volumes 1 and 2

Proceedings of a conference held in Washington,
DC, August 28 - September 2, 1977, v.p.
1977

KEYWORDS: FUEL ECONOMY; GAS TURBINE ENGINES;
AUTOMOTIVE ENGINES; US ERDA; ALTERNATE FUELS;
BRAYTON CYCLE; ELECTRIC VEHICLES; BATTERIES;
ENERGY CONSERVATION; EQUIPMENT; ENVIRONMENTAL
IMPACT; INDUSTRIAL SECTOR; UNCONVENTIONAL
ENERGY SOURCES; MAGNETOHYDRODYNAMICS; RANKINE
CYCLE ENGINES; STIRLING ENGINES; THERMIONICS;
ENERGY CONVERSION; DESIGN; WASTE HEAT;
INDUSTRIES; ELECTRIC POWER; SOLAR COLLECTORS;
SOLAR ENERGY; PHOTOVOLTAIC CELLS;
PHOTOVOLTAIC CONVERSION; THERMAL ENERGY
STORAGE EQUIPMENT; INSULATION; WIND POWER;
DIAGRAMS; MODELS; NUCLEAR POWER

<23>
American Public Transit Association
ADDRESS: 1100 17th Street NW, Suite 1200,
Washington, DC 20036
TITLE: Transit Fact Book, 1977-78 Edition

Annual Publication, 1977-78 edition, 64 p.
1978, May

KEYWORDS: TRANSPORTATION; STATISTICS; MASS
TRANSPORTATION; BUSES (VEHICLES); PASSENGER
TRANSPORTATION; AUTOMOBILES; RAIL
TRANSPORTATION; REVENUE; FUEL CONSUMPTION;
TABLES (DATA)

<24>
American Trucking Associations Inc., Dept. of
Economics
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: Monthly Truck Tonnage Report

Monthly report, approximately 2 p.

KEYWORDS: TRUCKS; CARGO TRANSPORTATION; TABLES
(DATA); INTERCITY TRANSPORTATION; REGIONAL
ANALYSIS; COMPARATIVE EVALUATIONS

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American Trucking Associations Inc., Dept. of
Economics
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: Weekly Truck Tonnage Report

Weekly report, approximately 2 p.

KEYWORDS: TRUCKS; CARGO TRANSPORTATION; TABLES
(DATA); INTERCITY TRANSPORTATION; SURVEYS

<26>

American Trucking Associations Inc., Dept. of
Economics
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: Motor Carrier Statistical Summary

Quarterly and annual reports

KEYWORDS: STATISTICS; TRUCKS; REVENUE; EXPENSES;
INCOME; TABLES (DATA); FINANCIAL DATA;
ECONOMICS; INTERCITY TRANSPORTATION; CARGO
TRANSPORTATION; COMMODITIES; HISTORY

<27>

American Trucking Associations Inc., Dept. of
Economics; American Trucking Associations
Inc., Public Relations Dept.
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: American Trucking Trends. 1976
Statistical Supplement

24 p.

1977

KEYWORDS: TRUCKS; STATISTICS; REVENUE; COSTS;
TAXES; CARGO TRANSPORTATION; EQUIPMENT;
SAFETY; TABLES (DATA); GRAPHS (CHARTS);
EXPENSES; VEHICLE REGISTRATIONS; WAGES
AVAILABILITY: American Trucking Associations
Inc., Public Relations Dept.

<28>

American Waterways Operators Inc.
ADDRESS: 1600 Wilson Boulevard, Suite 1101,
Arlington, VA 22209
TITLE: 1976 Inland Waterborne Commerce Statistics

Annual report, 45 p.

1976, June

KEYWORDS: WATER TRANSPORTATION; STATISTICS;
WATERWAY TRANSPORTATION; TABLES (DATA);
COMMODITIES; CARGO TRANSPORTATION; COMMERCE;
RIVERS; COSTS

<29>

Andersen (Arthur) and Co.
ADDRESS: 1666 K Street NW, Washington, DC 20006
TITLE: Urban Mass Transportation Industry Uniform
System of Accounts and Records and Reporting
System. Volumes 1-4

Report No. PB-264877, UMTA-IT-06-0094-77-1, v.p.
for Volume 1; Report No. PB-264878,
UMTA-IT-06-0094-77-2, v.p. for Volume 2;
Report No. PB-264879, UMTA-IT-06-0094-77-3,
v.p. for Volume 3; Report No. PB-264880,
UMTA-IT-06-0094-77-4, v.p. for Volume 4
1977, January 10

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration
KEYWORDS: URBAN TRANSPORTATION; MASS
TRANSPORTATION; ACCOUNTING; FINANCIAL DATA;
OPERATING COSTS; DATA ACQUISITION; FORMS
(PAPER); MAINTENANCE; ACCIDENTS
AVAILABILITY: NTIS

<30>

Andersen, C.J.
Lawrence Livermore Laboratory
ADDRESS: Livermore, CA 94550
TITLE: Alternative Fuels for Transportation:
Implications of the Broad-Cut Option

Report No. UCRL-52313, 18 p.

1977, July 11

SPONSOR: Energy Research and Development
Administration
KEYWORDS: GASOLINE; DIESEL FUELS; BROAD-CUT
FUELS; ENERGY CONSERVATION; EFFICIENCY;
ENGINES; PRODUCTION; PETROLEUM; COAL;
SYNTHETIC FUELS; GOVERNMENT POLICIES; OIL
SHALE; GRAPHS (CHARTS); TABLES (DATA);
PETROLEUM REFINING
AVAILABILITY: NTIS

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Anderson, D.W.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Performance and Emissions of a Catalytic
Reactor with Propane, Diesel, and Jet A Fuels

Report No. NASA TN-73786, CONS/1011-20, paper
presented at the Fall meeting, Western States
Section of the Combustion Institute,
Stanford, California, October 17-18, 1977,
v.p.

1977, September

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: PROPANE; DIESEL FUELS; JET ENGINE
FUELS; PERFORMANCE; COMBUSTION; NITROGEN
OXIDES; EFFICIENCY; EMISSIONS; COMPARATIVE
EVALUATIONS; CATALYSTS; HIGHWAY
TRANSPORTATION; AUTOMOTIVE EMISSIONS; GRAPHS
(CHARTS)
AVAILABILITY: NTIS

<32>

Anderson, R.K.; Hitchings, J.S.
American Gas Association, Policy and Economic
Analysis Division
ADDRESS: 1515 Wilson Boulevard, Arlington, VA
22209
TITLE: President's Proposed Energy Tax Measures
Costly for Consumers

American Gas Association Monthly, 59(11), 8-10
1977

KEYWORDS: NATIONAL ENERGY PLAN; TAXES; CONSUMERS;
GASOLINE; AUTOMOBILES; FUEL ECONOMY;
PETROLEUM; UTILIZATION; GROSS NATIONAL
PRODUCT; FORECASTING; MODELS; ECONOMETRIC
ANALYSIS

<33>

Andrews, P.D.; Langdon, H.G.
Transport and Road Research Laboratory, Dept. of
the Environment
ADDRESS: Crowthorne, Berkshire, United Kingdom
TITLE: An Individual Cost Minimizing Method of
Determining Nodal Split Between Three Travel
Modes

TRL Laboratory Report 698, 43 p.

1976

KEYWORDS: MATHEMATICAL MODELS; TRAVEL; COSTS;
URBAN TRANSPORTATION; AUTOMOBILES; BUSES

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(VEHICLES); RAPID TRANSIT SYSTEMS; ECONOMICS;
PUBLIC TRANSPORTATION; COMPARATIVE
EVALUATIONS; BEHAVIOR; TABLES (DATA); GRAPHS
(CHARTS)

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Ingersoll, P.R.; Golec, T.
Chrysler Corp.
ADDRESS: Detroit, MI
TITLE: Upgrading Automotive Gas Turbine
Technology. An Experimental Evaluation of
Improvement Concepts

Paper No. 760280, presented at the Society of
Automotive Engineers Congress and Exposition,
Detroit, Michigan, February 23-27, 1976, 50 p.

1976

SPONSOR: Society of Automotive Engineers
KEYWORDS: GAS TURBINES; AUTOMOBILES; GAS TURBINE
ENGINES; DIAGRAMS; GRAPHS (CHARTS);
PERFORMANCE; TESTING; AUTOMOTIVE EMISSION
CONTROL; FUEL ECONOMY; PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers,
400 Commonwealth Drive, Warrendale, PA 15096

<35>

Argonne National Laboratory
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439

TITLE: Development of Lithium/Metal Sulfide
Batteries at Argonne National Laboratory:
Summary Report for 1976

Report No. ANL-77-18, 34 p.

1977, March

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: LITHIUM/METAL SULFIDE BATTERIES; ENERGY
STORAGE; MATERIALS; ELECTRODES; ELECTRIC
UTILITIES; ELECTRIC VEHICLES;
LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES;
DIAGRAMS
AVAILABILITY: NTIS

<36>

Argonne National Laboratory
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439

TITLE: High-Performance Batteries for Stationary
Energy Storage and Electric-Vehicle
Propulsion. Progress Reports

Quarterly Progress Reports, v.p.

Quarterly

SPONSOR: Energy Research and Development
Administration; U.S. Dept. of Energy
KEYWORDS: ENERGY STORAGE; ELECTRIC VEHICLES;
BATTERIES; PERFORMANCE; COMMERCIALIZATION;
TESTING; MATERIALS; UTILIZATION
AVAILABILITY: NTIS

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Askia, A.B. (ed.); Kraft, J. (ed.)
Federal Energy Administration, National Impact
Division; Federal Energy Administration,
Office of Macroeconomic Impact Analysis
ADDRESS: Washington, DC
TITLE: Econometric Dimensions of Energy Demand
and Supply

127 p.
1976

KEYWORDS: ENERGY DEMAND; ENERGY SUPPLIES;
ECONOMETRIC ANALYSIS; ENERGY POLICY;
GASOLINE; FOSSIL FUELS; ELECTRIC UTILITIES;
FORECASTING; PRICES; MODELS; SIMULATION;
TABLES (DATA); INDUSTRIES; AUTOMOBILES;
SALES; IMPORTS; INDUSTRIAL SECTOR; FUEL
CONSUMPTION; ELECTRIC POWER DEMAND;
RESIDENTIAL SECTOR
AVAILABILITY: Lexington Books, D.C. Heath and
Co., Lexington, MA \$13.00

<38>

Asselman, G.A.A.; Spigt, C.L.; Heijer, B.J.
Philips Research Laboratories
ADDRESS: Holland
TITLE: Design Considerations on a Thermal Energy
Storage Stirling Engine Automobile

Paper No. 770080, presented at the Society of
Automotive Engineers' International
Automotive Engineering Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 28-March 4, 1977, 16 p.

1977

SPONSOR: Society of Automotive Engineers
KEYWORDS: STIRLING ENGINES; THERMAL ENERGY
STORAGE EQUIPMENT; DESIGN; GRAPHS (CHARTS);
DIAGRAMS; PERFORMANCE; SALTS; HEAT PIPES;
FLUORIDES
AVAILABILITY: Society of Automotive Engineers,
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<39>

Association of American Pipe Lines
ADDRESS: 1725 K Street NW, Washington, DC 20006
TITLE: Shifts in Petroleum Transportation: 1976

Annual report, 9 p.

1978, June 19

KEYWORDS: PETROLEUM; PIPELINE TRANSPORTATION;
PETROLEUM PRODUCTS; HISTORY; WATER
TRANSPORTATION; TRUCKS; RAIL TRANSPORTATION;
TONNAGE; STATISTICS; TABLES (DATA)

<40>

Association of American Railroads, Economics and
Finance Dept.
ADDRESS: 1920 L Street NW, Washington, DC 20036
TITLE: Yearbook of Railroad Facts: 1978 Edition

Annual Report, 65 p.

1978

KEYWORDS: RAILROADS; ENERGY DEMAND; STATISTICS;
RAIL TRANSPORTATION; PASSENGER
TRANSPORTATION; CARGO TRANSPORTATION;
REVENUE; FINANCIAL DATA; CAPITAL COSTS;
EMPLOYMENT; INCOME; FUEL CONSUMPTION; TABLES
(DATA); EQUIPMENT; HISTORY; TONNAGE; MILEAGE;
MAINTENANCE

<41>

Association of American Railroads, Economics and
Finance Dept.
ADDRESS: Washington, DC 20036
TITLE: Indexes of Railroad Material Prices and
Wage Rates: Railroads of Class 1

Quarterly publication, Series ONPW, 4 p.
KEYWORDS: RAIL TRANSPORTATION; PRICES; MATERIALS;
WAGES; INDEXES (RATIOS); FUELS; REGIONAL
ANALYSIS; TABLES (DATA)

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<42>

Association of American Railroads, Economics and
Finance Dept.

ADDRESS: Washington, DC 20036

TITLE: Railroads and Their Operated Mileage in
the Several States As of December 31, 1974

62 p.

1975, December

KEYWORDS: RAILROADS; MILEAGE; REGIONAL ANALYSIS;
CANADA; MEXICO; TABLES (DATA); OPERATION;
STATE ANALYSIS

<43>

Association of American Railroads, Office of
Information and Public Affairs

ADDRESS: Washington, DC 20036

TITLE: Background Material for States

50 p.

1976, May

KEYWORDS: RAILROADS; REGIONAL ANALYSIS; CARGO
TRANSPORTATION; EMPLOYEES; TAXES;
COMMODITIES; MILEAGE; STATE ANALYSIS

<44>

Atomic Energy Commission, Assistant Administrator
for Conservation

ADDRESS: Washington, DC

TITLE: New Automotive Power Systems

Report No. TID-26753, 17 p. for Vol. I;

TID-26754, 65 p. for Vol. II; TID-26755, 37
p. for Vol. III

1974, November 11

KEYWORDS: AUTOMOBILES; RESEARCH; FUEL ECONOMY;
AUTOMOTIVE ENGINES; ELECTRIC VEHICLES; US
ERDA; FUEL CONSUMPTION
AVAILABILITY: NTIS

<45>

Avriel, H.

Stanford University, Dept. of Operations
Research, Systems Optimization Laboratory

ADDRESS: Stanford, CA

TITLE: Modeling Personal Consumption of Goods in
the PILOT Energy Model

Technical Report SOL 76-17, 31 p.

1976, August

SPONSOR: Energy Research and Development
Administration; Electric Power Research
Institute; Stanford University, Institute for
Energy Studies

KEYWORDS: ENERGY MODELS; INCOME; EXPENDITURES;
NATURAL GAS; COAL; PETROLEUM; ELECTRIC POWER
DEMAND; AGRICULTURE; FOOD; WHOLESALE TRADE;
RETAIL TRADE; LUMBER; APPLIANCES;
CONSTRUCTION; MACHINERY; GRAPHS (CHARTS);
TRANSPORTATION

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Ayres, R.U.; Noble, S.

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ADDRESS: Suite 600, 1225 Connecticut Avenue NW,
Washington, DC

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PETROLEUM INDUSTRY; MANUFACTURING; TABLES
(DATA); MODELS; DESIGN; POLLUTION REGULATIONS
AVAILABILITY: NTIS

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Kanner (Leo) Associates

ADDRESS: Redwood City, CA 94063

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Deutsche Automobilgesellschaft

Forschungslaboratorium

ADDRESS: Germany

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REPUBLIC; ENERGY STORAGE; DRIVE TRAIN
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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
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TRW Inc., Energy Systems Planning Division

ADDRESS: McLean, VA 22101

TITLE: Automotive Fuel Requirements with
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DIESEL FUELS; GRAPHS (CHARTS); PETROLEUM
REFINING; DISTILLATES; SUPPLY (ECONOMICS);
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Balkus, K.

Florida State University

ADDRESS: Tallahassee, FL 32306

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 ADDRESS: 2601 South Figueroa Street, Los Angeles, CA 90007
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 ADDRESS: Baltimore, MD 21218
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 AVAILABILITY: Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096

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 Massachusetts Institute of Technology, Workshop on Alternative Energy Strategies (WAES)
 ADDRESS: Cambridge, MA 02139

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 AVAILABILITY: MIT Press, Cambridge, MA 02139
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 ADDRESS: Washington, DC
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 Wisconsin, University of, Engineering Experiment Station
 ADDRESS: 1500 Johnson Drive, Madison, WI 53706
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 AVAILABILITY: NTIS

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 ADDRESS: Bartlesville, OK 74003
 TITLE: An Investigative Study of Engine Limiting

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ADDRESS: Bartlesville, OK
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STRATIFIED CHARGE ENGINES; COMPARATIVE
EVALUATIONS; TESTING; GRAPHS (CHARTS); TABLES
(DATA); AUTOMOTIVE EMISSIONS
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Energy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: Bartlesville, OK
TITLE: Valve Timing--Its Effect on Emissions and
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HYDROCARBONS; CARBON MONOXIDE; VALVES;
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Marquette University, Urban Transportation Program
ADDRESS: Milwaukee, WI 53233
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TRANSPORTATION; PRICES; GASOLINE;
AVAILABILITY; MAPS; GRAPHS (CHARTS); TABLES
(DATA)
AVAILABILITY: NTIS

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Analysis Division
ADDRESS: Upton, NY 11973

TITLE: Analysis of Past and Expected Future
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GROWTH; TRANSPORTATION; RESIDENTIAL SECTOR;
ENERGY ANALYSIS; AGRICULTURE; ENERGY
CONSERVATION; FUEL CONSUMPTION; GOVERNMENT
POLICIES; AUTOMOTIVE INDUSTRY
AVAILABILITY: NTIS

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TABLES (DATA); PROPULSION; BATTERIES;
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AVAILABILITY: NTIS

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ADDRESS: McLean, VA 22101
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USE; TRANSPORTATION SYSTEMS; URBAN
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Highway Research Board, 2101 Constitution
Ave. NW, Washington, DC 20418 \$3.20

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ADDRESS: 7600 Old Springhouse Road, McLean, VA
22101

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PROCESSES; SIMULATION; MODELS; LIFE STYLE;
DISTRIBUTION; LAND USE; FORECASTING; TABLES

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(DATA); GRAPHS (CHARTS)
AVAILABILITY: NTIS

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Massachusetts Institute of Technology, Dept. of
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ADDRESS: Cambridge, MA 02139
TITLE: Use of Forecasting Models in
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AVAILABILITY: Oak Ridge Associated Universities,
P.O. Box 117, Oak Ridge, TN 37830 for entire
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Argonne National Laboratory, Energy and
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ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: Transportation Energy Scenario Analysis
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Energy Conservation Division, Data Analysis
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SOCIO-ECONOMIC FACTORS; US DOE; TECHNOLOGY;
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ANALYSIS; AUTOMOBILES; OWNERSHIP; ENERGY
CONSUMPTION; GRAPHS (CHARTS); GASOLINE;
VEHICLE MILES TRAVELED; GOVERNMENT POLICIES;
CARGO TRANSPORTATION
AVAILABILITY: NTIS

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Volkswagenwerk AG
TITLE: Proceedings: International Symposium on
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Technology (BMFT)
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ANALYSIS; COMPARATIVE EVALUATIONS; TOXICITY;
ALCOHOL FUELS; UTILIZATION; DIESEL ENGINES;
TECHNOLOGY ASSESSMENT; INTERNAL COMBUSTION
ENGINES; DESIGN; MARKET; GRAPHS (CHARTS)
AVAILABILITY: NTIS

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Bigelow, C.D.
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TITLE: Integrated Economic-Social-Environmental
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IMPACT; TRANSPORTATION SYSTEMS; PLANNING;
GOVERNMENT POLICIES; LAND USE; CITIZENS GROUPS
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Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
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Billing, J.R.; Grouni, H.W.; Vuchic, V.R.
Ontario Ministry of Transportation and
Communications, Research and Development
Division; Pennsylvania, University of, Dept.
of Engineering
ADDRESS: ONTC, Ontario, Canada; UP, Philadelphia,
PA
TITLE: Design of Elevated Guideway Structures for
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Paper published in Transportation Research Record
627, 17-21 (Discussion p. 20)
1977
SPONSOR: National Academy of Sciences,
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KEYWORDS: RAPID TRANSIT SYSTEMS; DESIGN;
RIGHT-OF-WAY; PERFORMANCE; ELEVATED GUIDEWAYS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 627

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Lawrence Livermore Laboratory
ADDRESS: California Univ., Livermore, CA
TITLE: Transportation-Related Data Bases
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Part II: Detailed Data Base Descriptions

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II
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SPONSOR: Energy Research and Development
Administration; U.S. Dept. of Transportation,
Transportation Systems Center, Information
Division
KEYWORDS: TRANSPORTATION; DATA BASES; ABSTRACTS;
BIBLIOGRAPHIES; ENERGY MODELS; SURVEYS
AVAILABILITY: NTIS

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ADDRESS: McLean, VA 22101
TITLE: A Preliminary Assessment of Empty Miles
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PRODUCTS; FUEL CONSUMPTION; TRUCKS; HOUSEHOLD

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 GOODS: TABLES (DATA)

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 Bjerklie, J.W.; Cairns, E.J.; Tobias, C.W.;
 Wilson, D.G.
 Hague International; Argonne National Laboratory;
 California, University of; Massachusetts
 Institute of Technology
 ADDRESS: HI, The Hague, Netherlands; ANL, 9700
 South Cass Avenue, Argonne, IL 60439; CO,
 Berkeley, CA 94720; MIT, Cambridge, MA 02139
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 VEHICLES; GRAPHS (CHARTS); COSTS; COMPARATIVE
 EVALUATIONS
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096

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 Chrysler Corp.
 ADDRESS: Detroit, MI
 TITLE: The 1978 Chrysler Torque Converter Lock-Up
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 Inc., 400 Commonwealth Drive, Warrendale, PA
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 Bobit, E.J.; Hornkohl, C.; Dunlap, J.R.
 Bobit Publishing Co., Research Dept.
 ADDRESS: 2500 Artesia Boulevard, Redondo Beach,
 CA 90278
 TITLE: Report on the Aspects of Automotive Fleet
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 SPONSOR: Energy Research and Development
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 COSTS; MAINTENANCE; REPAIR; ELECTRIC
 VEHICLES; INSURANCE; TAXES; AUTOMOTIVE
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 FUEL ECONOMY; TABLES (DATA); VEHICLE
 REGISTRATIONS

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 Foles, P.B.
 U.S. Dept. of Agriculture, Economic Research
 Service, National Economic Analysis Division

ADDRESS: Washington, DC 20250
 TITLE: Cost of Operating Refrigerated Trucks for
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 FLORIDA; TEXAS; TABLES (DATA); VEGETABLES;
 COSTS

AVAILABILITY: NTIS

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 Bolger, J.G.; Epps, R.C.; Jansen, J.P.; Miller,
 A.E.; O'Connell, L.G.
 Lawrence Livermore Laboratory; Lawrence Berkeley
 Laboratory
 ADDRESS: LLL, University of California,
 Livermore, CA 94550; LBL, Berkeley, CA 94720
 TITLE: Application of Energy Storage Power
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SPONSOR: Energy Research and Development
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 CONSUMPTION; RAIL TRANSPORTATION; RAPID
 TRANSIT SYSTEMS; BATTERIES; DEVELOPMENT;
 FLYWHEELS; GRAPHS (CHARTS); TABLES (DATA);
 AVIATION; MARINE TRANSPORTATION; PIPELINES
 AVAILABILITY: NTIS

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 Lawrence Berkeley Laboratory
 ADDRESS: University of California, Berkeley, CA
 TITLE: Investigation of the Feasibility of a Dual
 Mode Electric Transportation System

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SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: HIGHWAY TRANSPORTATION; TRANSPORTATION
 SYSTEMS; ELECTRIC VEHICLES; ENERGY STORAGE;
 DUAL MODE ELECTRIC TRANSPORTATION SYSTEM;
 TABLES (DATA); DESIGN; MAGNETIC FIELDS;
 GRAPHS (CHARTS); CALIFORNIA; COSTS; ALTERNATE
 FUELS; COMPARATIVE EVALUATIONS; SAFETY
 AVAILABILITY: NTIS

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 Lawrence Berkeley Laboratory
 ADDRESS: University of California, Berkeley, CA
 TITLE: Test of the Performance and
 Characteristics of a Prototype Inductive
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 VEHICLES; DRIVING CYCLE; ENERGY STORAGE;
 ELECTRIC HIGHWAY SYSTEMS; COUPLINGS; BATTERIES
 AVAILABILITY: NTIS

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 Bolin, D.A.; Johnson, R.H.; Callen, R.
 Michigan Technological University
 ADDRESS: Houghton, MI

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TITLE: A Study of the Effect of Oil and Coolant Temperatures on Diesel Engine Brake Specific Fuel Consumption

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1977

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Bon, R.

Massachusetts Institute of Technology, Dept. of Urban Studies and Planning
ADDRESS: Cambridge, MA 02139
TITLE: Some Conditions of Macroeconomic Stability in Multiregional Models

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SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of University Research
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AVAILABILITY: NTIS

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ADDRESS: 4330 East West Hwy., Bethesda, MD 20014
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TITLE: Transbus Engineering Test Program

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AVAILABILITY: NTIS

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ADDRESS: Washington, DC

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ADDRESS: Santa Barbara, CA

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 ADDRESS: Phoenix, AR 85068
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SPONSOR: U.S. Dept. of Transportation
 KEYWORDS: PASSENGER TRANSPORTATION; BUSES (VEHICLES); FUEL ECONOMY; OPERATING COSTS; PLANNING
 AVAILABILITY: U.S. Dept. of Energy, Voluntary Truck and Bus Fuel Economy Program, Washington, DC 20461

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ADDRESS: Phoenix, AR 85068
 TITLE: Fuel Economy through Teamwork: Driving for Fuel Economy

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 Publication Series No. 3, 3 p.

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SPONSOR: U.S. Dept. of Transportation
 KEYWORDS: PASSENGER TRANSPORTATION; BUSES (VEHICLES); MILEAGE; FUEL ECONOMY
 AVAILABILITY: U.S. Dept. of Energy, Voluntary Truck and Bus Fuel Economy Program, Washington, DC 20461

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SPONSOR: U.S. Dept. of Transportation
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 AVAILABILITY: U.S. Dept. of Energy, Voluntary Truck and Bus Fuel Economy Program, Washington, DC 20461

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TITLE: Urban Data Book. Volume I. Urban Data: Atlanta - Miami. Volume II. Urban Data: Milwaukee - Washington, Notes and Technical Appendixes

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AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418
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 ADDRESS: College Station, TX

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 AVAILABILITY: NTIS

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 ADDRESS: Washington, DC 20461
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 ADDRESS: Knoxville, TN
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 ADDRESS: Kendall Square Bldg., 238 Main St., Cambridge, MA 02142
 TITLE: State Energy Conservation Plans: Guidelines for Travel Demand Analyses of Program Measures to Promote Carpools, Vanpools, and Public Transportation

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SPONSOR: Federal Energy Administration, Office of Policy and Program Evaluation, Office of Conservation Policy; Federal Energy Administration, Office of Energy Conservation and Environment
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 ADDRESS: Ann Arbor, MI 48105
 TITLE: Highway Safety Effects of the Energy Crisis on U.S. Toll Roads

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SPONSOR: U.S. Dept. of Transportation, National Highway Traffic Safety Administration
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ANALYSIS
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ADDRESS: Joplin, MO
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AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Carroll, T.O.; Kyles, A.S.; Sanborn, J.
Brookhaven National Laboratory, National Center
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Analysis Division; State University of New
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ADDRESS: BNL, Upton, NY 11973; SUNY, Stony
Brook, NY 11790
TITLE: Land Use - Energy Simulation Model: A
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ANALYSIS; NEW YORK; SUBURBAN AREAS

AVAILABILITY: NTIS

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E.
Brookhaven National Laboratory, National Center
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Brook, NY 11790
TITLE: The Planner's Energy Workshop: A Manual
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CONSERVATION; TUSCON (ARIZONA); LONG ISLAND
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INTENSITY; REGIONAL ANALYSIS; COMMUNITIES;
TABLES (DATA)

AVAILABILITY: NTIS

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TITLE: Highway and Transit Programs: Message to
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KEYWORDS: HIGHWAYS; MASS TRANSPORTATION;
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STATE GOVERNMENT; LOCAL GOVERNMENT

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Cataldo, R.L.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
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ELECTRIC VEHICLES; VELOCITY; CONTROL;
ELECTRIC DISCHARGES; CAPACITY; DESIGN; ENERGY
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AVAILABILITY: NTIS

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ADDRESS: Washington, DC
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1974, August

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Ceppos, R.

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MILEAGE; TESTING; WEIGHT; AUTOMOBILES;
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LaboratoryADDRESS: DOE, Washington, DC; LLL, University of
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Proceedings

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TransportationKEYWORDS: FLYWHEELS; UTILIZATION; TRANSPORTATION;
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ENERGY STORAGE; ELECTRIC VEHICLES; TESTING;
TECHNOLOGY ASSESSMENT; MATERIALS;
COMMERCIALIZATION; DIAGRAMS; COSTS; GRAPHS
(CHARTS); COMPARATIVE EVALUATIONS; TABLES
(DATA)

AVAILABILITY: NTIS

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Chang, M.C.

Airesearch Manufacturing Co.

ADDRESS: Torrance, CA

TITLE: Computer Simulation of an Advanced Hybrid
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CELLS; FLYWHEELS; LEAD-ACID BATTERIES;
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CONVERSION; GRAPHS (CHARTS)AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Charles River Associates Inc.

ADDRESS: 1050 Massachusetts Ave., Cambridge, MA
02138TITLE: Methodology for Predicting the Demand for
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SPONSOR: Electric Power Research Institute

KEYWORDS: ENERGY CONSUMPTION; FORECASTING;
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ATTITUDES; IMPORTS; PRICESAVAILABILITY: Electric Power Research Institute,
3812 Hillview Avenue, Palo Alto, CA 94304

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PURCHASING; MARKET; COSTS; UTILIZATION;
PRICES; FUEL ECONOMY; TRUCKS; BUSES (VEHICLES)

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SPONSOR: Federal Energy Administration

KEYWORDS: ELASTICITY (ECONOMICS); FUEL
CONSUMPTION; PRICES; GASOLINE; DIESEL FUELS;
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Conservation, Transportation ProgramsKEYWORDS: ENERGY CONSERVATION; CARGO
TRANSPORTATION; INTERSTATE TRANSPORTATION;
GOVERNMENT POLICIES; TRUCKS; ENERGY
CONSUMPTION; MARKET; EFFICIENCY; INTERSTATE
COMMERCE COMMISSION; ECONOMIC ANALYSIS;
TABLES (DATA); REGULATIONS; FUEL CONSUMPTI
DEMAND (ECONOMICS)

AVAILABILITY: NTIS

<125>

Cherniavsky, E.A.; Kydes, A.S.; Davidoff, J.W.
Brookhaven National Laboratory, National Center
for Analysis of Energy Systems, Energy Models
Group

ADDRESS: Upton, NY 11973

TITLE: Multi-Objective Function Analysis of ERDA
Forecast-2, Year-2000 Scenario

Report No. BNL 50685, 46 p.

1977, May

SPONSOR: Energy Research and Development
Administration, Office of Planning, Analysis
and EvaluationKEYWORDS: FORECASTING; PETROLEUM; IMPORTS; ENERGY
SYSTEMS; ENERGY MODELS; OPTIMIZATION;
CAPITAL; COSTS; ENVIRONMENTAL IMPACT; TABLES
(DATA)

AVAILABILITY: NTIS

<126>
Chilenskas, A.A.; Bernstein, G.J.; Craze, J.E.A.;
Hornstra, P.; Kolba, V.H.; Slavecki, H.A.;
Ivins, R.O.
Argonne National Laboratory
ADDRESS: Argonne, IL
TITLE: Design and Testing of Lithium/Iron Sulfide
Batteries for Electric Vehicle Propulsion

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 21 p.

1976, September
KEYWORDS: LITHIUM/IRON SULFIDE BATTERIES;
LITHIUM/METAL SULFIDE BATTERIES; ELECTRIC
VEHICLES; RESEARCH; DESIGN; TESTING;
PERFORMANCE; DIAGRAMS
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<127>
Chilenskas, A.A.; Bernstein, G.J.; Ivins, R.O.
Argonne National Laboratory, Chemical Engineering
Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: Lithium Requirements for High-Energy
Lithium-Aluminum/Iron Sulfide Batteries for
Load-Leveling and Electric-Vehicle
Applications

Report No. CONF-760112-3, paper prepared for A
Symposium on United States Lithium Resources
and Requirements by the Year 2000, Lakewood,
Colorado, January 22-24, 1976, 19 p.

1976
SPONSOR: Energy Research and Development
Administration, Assistant Administrator for
Conservation
KEYWORDS: LITHIUM; LITHIUM-ALUMINUM/IRON SULFIDE
BATTERIES; ELECTRIC VEHICLES; ENERGY STORAGE;
LOAD MANAGEMENT; ELECTRIC UTILITIES; DEMAND
(ECONOMICS); FORECASTING;
LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES
AVAILABILITY: NTIS

<128>
Chiodioji, M.H.
Energy Research and Development Administration,
Division of Buildings and Industry
ADDRESS: Washington, DC
TITLE: Roadway Decision-Making and Implications
for Energy Use - Some Economic Considerations

Paper published in Transportation Research Board
Special Report 166, 10-17

1976
KEYWORDS: HIGHWAYS; CAPITAL COSTS; ENERGY
CONSUMPTION; PRICES; CONSTRUCTION; MATERIALS
AVAILABILITY: National Academy of Sciences,
National Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 20418 \$6.00 for TRB Special
Report 166

<129>
Ciachette, I.R.
Ciachette Corp.
TITLE: Contractors' View on Optimizing Materials
and Energy

Paper published in Transportation Research Board
Special Report 166, 29-60
1976

KEYWORDS: HIGHWAYS; MATERIALS; ENERGY
CONSUMPTION; CONSTRUCTION; CEMENTS; ASPHALTS;
STANDARDS
AVAILABILITY: National Academy of Sciences,
National Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 20418 \$6.00 for TRB Special
Report 166

<130>
Ciccarone, A.; Antonini, C.; Virgilio, U.
Alfa Romeo Research Dept.
ADDRESS: Italy
TITLE: Fuel Consumption in European Passenger
Cars Powered by Gasoline, Diesel, and Direct
Injection Stratified Charge Engines

Paper presented at the Automobile Engineering
Meeting, Dearborn, Michigan, October 18-22,
1976, 20 p.

1976
KEYWORDS: FUEL CONSUMPTION; AUTOMOBILES;
GASOLINE; DIESEL FUELS; STRATIFIED CHARGE
ENGINES; EUROPE; COMPUTERIZED SIMULATION;
COMPARATIVE EVALUATIONS; AUTOMOTIVE
EMISSIONS; TABLES (DATA); GRAPHS (CHARTS);
EFFICIENCY; PERFORMANCE
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<131>
Civil Aeronautics Board, Bureau of Accounts and
Statistics, Economic Evaluation Division
ADDRESS: Washington, DC 20428
TITLE: Aircraft Operating Cost and Performance
Report for Calendar Years 1975 and 1976

Annual report, Volume XI, 134 p.
1977, July
KEYWORDS: AIRCRAFT; OPERATING COSTS; PERFORMANCE;
TABLES (DATA); FINANCIAL DATA; STATISTICS;
TRAFFIC; CAPACITY; AIR TRANSPORTATION
AVAILABILITY: GPO, Stock No. 003-006-00073-5

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Civil Aeronautics Board, Bureau of Accounts and
Statistics, Economic Evaluation Division
ADDRESS: Washington, DC 20428
TITLE: Turbojet/Turboprop Aircraft Operating Cost
and Performance Trends: Domestic and
International Operations of the U.S.
Supplemental Air Carriers, Calendar 1963 -
Fiscal 1975

Supplemental Carrier Jet Trends, 2nd Edition, 45
p.

1976, February
KEYWORDS: AIRCRAFT; OPERATING COSTS; PERFORMANCE;
OPERATION; HISTORY; STATISTICS; TABLES
(DATA); COSTS; JET AIRCRAFT; AIR
TRANSPORTATION

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Civil Aeronautics Board, Bureau of Accounts and
Statistics, Economic Evaluation Division
ADDRESS: Washington, DC 20428
TITLE: Airline Equipment Needs and Financing
Through 1985

46 p.
1976, November
KEYWORDS: AIR TRANSPORTATION; EQUIPMENT;
FORECASTING; FINANCING; TRAFFIC; CAPACITY;

<133>

<133> CONT.

TABLES (DATA); AIRCRAFT; COSTS; CAPITAL

<134>

Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division
 ADDRESS: Washington, DC 20428
 TITLE: Computer Air Carrier Traffic Statistics: 12 Months Ended June 30, 1977

Annual Report, 40 p.

1977, November

KEYWORDS: COMMUTERS; AIRCRAFT; TRAFFIC;
 STATISTICS; AIR TRANSPORTATION; TABLES
 (DATA); PASSENGER TRANSPORTATION; CARGO
 TRANSPORTATION; AIRPORTS

<135>

Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division, Financial and Traffic Data Section
 ADDRESS: Washington, DC
 TITLE: Truck Carriers--Coach Class: Traffic, Revenue, Yield, Enplanements and Average On-Flight Trip Length by Fare Category (48 State Basis)

Monthly publication, formerly titled "Coach Traffic, Revenue, Yield and Average On-Flight Trip Length by Fare Category for the 48-State Operations of the Domestic Trunks", v.p.

Monthly

KEYWORDS: TRAFFIC; REVENUE; REGIONAL ANALYSIS;
 TABLES (DATA); PASSENGER ENPLANEMENTS

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Civil Aeronautics Board, Bureau of Operating Rights, Standards Division
 ADDRESS: Washington, DC 20428
 TITLE: A Profile of Airline Service in the 48 Contiguous States, June 1, 1975

1977, June 1

KEYWORDS: AIR TRANSPORTATION; TABLES (DATA);
 REGIONAL ANALYSIS; SERVICES; AIRCRAFT;
 PASSENGER TRANSPORTATION; POPULATION
 (STATISTICS); URBAN AREAS; STATISTICS;
 PASSENGER ENPLANEMENTS

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Civil Aeronautics Board, Bureau of Operating Rights, Standards Division
 ADDRESS: Washington, DC 20428
 TITLE: Local Service Carriers Passengers Enplanements: Fiscal Years 1976 and 1975

83 p.

1977, July

KEYWORDS: PASSENGER ENPLANEMENTS; PASSENGER
 TRANSPORTATION; AIRPORTS; AIRCRAFT;
 STATISTICS; TABLES (DATA); REGIONAL ANALYSIS;
 SERVICES

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Civil Aeronautics Board, Bureau of Operating Rights, Standards Division
 ADDRESS: Washington, DC 20428
 TITLE: Transline Carrier Domestic Passenger Enplanements: Fiscal Years 1976 and 1975

95 p.

1977, August

KEYWORDS: AIRPORTS; PASSENGER TRANSPORTATION; AIR
 TRANSPORTATION; REGIONAL ANALYSIS;
 STATISTICS; TABLES (DATA); PASSENGER
 ENPLANEMENTS; SERVICES

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Civil Aeronautics Board, Financial and Traffic Data Section; U.S. Dept. of Transportation, Federal Aviation Administration, Office of Management Systems
 ADDRESS: CAB, 1825 Connecticut Ave. NW, Washington, DC 20428; DOT/FAL, 800 Independence Ave. SW, Washington, DC 20591
 TITLE: Airport Activity Statistics of Certified Route Air Carriers for 12 Months Ended December 31, 1976

Semi-annual report, Report No. AD/A-046953, 307 p.
 1976, December 31

KEYWORDS: STATISTICS; AIRCRAFT; AIRPORTS; TABLES
 (DATA); SCHEDULING; PASSENGER TRANSPORTATION;
 CARGO TRANSPORTATION; AIR TRANSPORTATION;
 STATE ANALYSIS; PASSENGER ENPLANEMENTS
 AVAILABILITY: NTIS

<140>

Clark, J.W.
 Washington, University of, Urban Transportation Program
 ADDRESS: Seattle, WA 98105
 TITLE: Directing the Evolution of Urban Land Use to Achieve Improved Transportation System Performance

Paper presented at the 54th Annual Meeting of the Transportation Research Board, published in Transportation Research Record 565, 61-74

1976

SPONSOR: National Academy of Sciences, Transportation Research Board
 KEYWORDS: GROWTH; URBAN AREAS; TRAVEL; POPULATION
 GROWTH; FORECASTING; WASHINGTON; EMPLOYMENT;
 TRANSPORTATION SYSTEMS; PERFORMANCE;
 COMPUTERIZED SIMULATION

AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418
 \$6.00 for Transportation Research Record No. 565

<141>

Clark, N. (ed.)
 National Academy of Sciences, National Research Council, Transportation Research Board, Commission on Sociotechnical Systems
 ADDRESS: 2101 Constitution Avenue NW, Washington, DC

TITLE: Strategies for Reducing Gasoline Consumption Through Improved Motor Vehicle Efficiency. A Report of an Informal Transportation Research Board Workshop

Transportation Research Board Special Report 169, proceedings of a workshop sponsored and conducted by the Transportation Research Board Committee on Energy Conservation and Transportation Demand, Washington, DC, October 7-8, 1975, 55 p.

1975

SPONSOR: Federal Energy Administration; U.S. Dept. of Transportation, Transportation Systems Center
 KEYWORDS: GASOLINE; CONSUMPTION; VEHICLES;
 EFFICIENCY; AUTOMOBILES; SALES; FUEL
 CONSUMPTION; MARKET; ENERGY CONSERVATION;
 FORECASTING; DEMAND (ECONOMICS); SPEED

<141> CONT.
LIMITS; VELOCITY; SAFETY; AUTOMOTIVE
EMISSIONS; FUEL ECONOMY; TAXES; ELECTRIC
VEHICLES
AVAILABILITY: \$2.40

<142>
Clark, M. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Optimizing the Use of Materials and Energy
in Transportation Construction

Transportation Research Board Special Report 166,
proceedings of a conference held November
12-14, 1975, 74 p.

1976
SPONSOR: U.S. Dept. of Transportation, Federal
Highway Administration; Federal Energy
Administration; Energy Research and
Development Administration
KEYWORDS: ENERGY CONSUMPTION; TRANSPORTATION;
CONSTRUCTION; HIGHWAYS; MATERIALS; ENERGY
CONSERVATION; ASPHALT; SULFUR; CEMENTS;
FORECASTING; ENERGY SHORTAGES; PETROLEUM;
GRAPHS (CHARTS); COSTS
AVAILABILITY: \$6.00

<143>
Clark, M. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue, Washington, DC
20418
TITLE: Transportation System Management

Transportation Research Board Special Report 172,
proceedings of a conference held November
7-10, 1976, 167 p.

1977
SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration; U.S. Dept. of
Transportation, Federal Highway
Administration; Institute of Transportation
Engineers
KEYWORDS: TRAFFIC CONTROL; PARKING;
TRANSPORTATION; AUTOMOBILE OCCUPANCY;
GOVERNMENT POLICIES; CARGO TRANSPORTATION;
PLANNING; US DOT; REGULATIONS; URBAN AREAS;
AUTOMOBILES; PASSENGER TRANSPORTATION; PUBLIC
OPINION
AVAILABILITY: \$6.80

<144>
Clark, M. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20418
TITLE: Dual-Mode Transportation

Transportation Research Board Special Report 170,
proceedings of a conference conducted by the
Transportation Research Board, May 29-31,
1974, 164 p.

1976
KEYWORDS: PUBLIC TRANSPORTATION; DUAL-MODE BUS
SYSTEMS; SCHEDULING; RIGHT-OF-WAY; URBAN
TRANSPORTATION; BUSES (VEHICLES); TRANSIT
STATIONS; TRAFFIC CONTROL; MAINTENANCE;
CAPACITY; SAFETY; AUTOMATED GUIDEWAY TRANSIT
AVAILABILITY: \$6.40

<145>
Clark, M. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Urban Transportation Alternatives:
Evolution of Federal Policy

Transportation Research Board Special Report 177,
report of conference held February 23-26,
1975, at Airline House, Virginia, and March
29-April 1, 1976, at Hunt Valley, Maryland,
38 p.

1977
SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration
KEYWORDS: GOVERNMENT POLICIES; URBAN
TRANSPORTATION; MASS TRANSPORTATION; US DOT;
FUNDING; PLANNING; CONFERENCES; CONSTRUCTION;
FINANCING
AVAILABILITY: \$2.00

<146>
Clarkey, A.
Energy Research Corp.
ADDRESS: Danbury, CT
TITLE: Development of Large Size Nickel-Zinc
Cells for Electric Vehicles

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 16 p.

1976, September
KEYWORDS: NICKEL-ZINC BATTERIES; ELECTRIC
VEHICLES; RESEARCH; ELECTRODES; ELECTROLYTES;
PERFORMANCE; BATTERY SEPARATORS
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<147>
Cockle, G.W. (ed.); Houser, F.W. (ed.); Koch,
E.M. (ed.)
Association of American Railroads, Mechanical
Division
ADDRESS: Washington, DC
TITLE: Car and Locomotive Cyclopaedia of American
Practices

Third Edition, v.-p.

1974
KEYWORDS: RAILROAD CARS; RAIL TRANSPORTATION;
LOCOMOTIVES; DESIGN; CARGO TRANSPORTATION;
PASSENGER TRANSPORTATION; EQUIPMENT; DIESEL
ENGINES; SAFETY; MAINTENANCE; PHOTOGRAPHS;
DIAGRAMS; MANUFACTURERS
AVAILABILITY: Simmons-Boardman Publishing Corp.,
350 Broadway, New York, NY 10013

<148>
Cohen, G.S.; Erlbaum, M.S.; Hartgen, D.T.
New York State Dept. of Transportation, Planning
and Research Bureau, Planning Research Unit
ADDRESS: Albany, NY 12232
TITLE: Intercity Rail Patronage in the NYC -
Buffalo Corridor: Models and Forecasts.
Volume III

Final Report, Report No. DOT/RSPD/DPB/50-77-7,
Volume 3 of 3, 107 p.
1977, May
SPONSOR: U.S. Dept. of Transportation, Office of
University Research

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<148> CONT.

KEYWORDS: INTERCITY TRANSPORTATION; NEW YORK CITY; BUFFALO (NEW YORK); MODELS; FORECASTING; COMPETITION; AIR TRANSPORTATION; AUTOMOBILES; BUSES (VEHICLES); ELASTICITY (ECONOMICS); DEMAND (ECONOMICS); TRANSPORTATION MODE CHOICE; TABLES (DATA); GRAPHS (CHARTS)

<149>

Cohen, S.B.

Wyle Laboratories

ADDRESS: P.O. Box 1008, Huntsville, AL 35807

TITLE: Regulatory Effectiveness Methodology. Phase I Research

Report No. ADA-036579, CG-D 7-77, MSR 76-42, 93 p. 1976, July

SPONSOR: U.S. Dept. of Transportation, Coast

Guard, Office of Research and Development

KEYWORDS: REGULATIONS; RECREATION VEHICLES;

BOATS; SAFETY; MODELS; FORECASTING

AVAILABILITY: NTIS

<150>

Colello, R.G.

U.S. Dept. of Transportation, Transportation

Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Automobile Drivelines

Report No. DOT-TSC-OST-77-34, 56 p.

1977, May

SPONSOR: U.S. Dept. of Transportation, Office of

the Secretary, Office of the Assistant

Secretary for Systems Development and

Technology; U.S. Dept. of Transportation,

Transportation Systems Center

KEYWORDS: AUTOMOBILE TRANSMISSIONS; FUEL ECONOMY;

AUTOMOBILES; ACCELERATION; AUTOMOTIVE

EMISSIONS; COMPUTERIZED SIMULATION;

PERFORMANCE; FUEL CONSUMPTION; GRAPHS

(CHARTS); DIAGRAMS

AVAILABILITY: NTIS

<151>

Coleman, W.T., Jr.

U.S. Dept. of Transportation, Office of the

Secretary

ADDRESS: Washington, DC 20590

TITLE: A Progress Report: Implementation of the 1975 Statement of National Transportation Policy

23 p.

1976, September 17

KEYWORDS: TRANSPORTATION; GOVERNMENT POLICIES;

REGULATIONS; ENERGY CONSERVATION; SUBSIDIES;

RAIL TRANSPORTATION; AIR TRANSPORTATION;

URBAN TRANSPORTATION; COAL; PETROLEUM;

SAFETY; ENVIRONMENTAL IMPACT

<152>

Collins, R.H.; Carriere, W.B.

General Research Corp.

ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105

TITLE: Energy Impacts of Electric Cars

Releasable Memorandum, Report No. RM-2101, 47 p.

1978, January

SPONSOR: U.S. Dept. of Energy

KEYWORDS: ELECTRIC VEHICLES; FORECASTING; ENERGY

CONSUMPTION; PETROLEUM; AUTOMOBILES; MODELS;

ELECTRIC POWER GENERATION; BATTERY CHARGING;

GRAPHS (CHARTS); ELECTRIC POWER DEMAND; REGIONAL ANALYSIS; TABLES (DATA)

<153>

Control Data Corp.; Wells Research Co.

ADDRESS: CDC, 607 Valleybrook Drive, Silver Spring, MD 20904; WRC, 6003 Executive Blvd., Rockville, MD

TITLE: Trends in Bus Transit Operations: 1960-1974

Report No. PB-266748, DOT-TPI-10-77-14, 134 p. 1977, January

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans, and International Affairs; U.S. Dept. of Transportation, Urban Mass Transportation Administration

KEYWORDS: BUSES (VEHICLES); TABLES (DATA); GRAPHS

(CHARTS); COSTS; URBAN TRANSPORTATION; FUEL

CONSUMPTION; UTILIZATION; PUBLIC

TRANSPORTATION; FINANCIAL DATA; PASSENGER

TRANSPORTATION; REVENUE; EMPLOYMENT; HISTORY;

SERVICES

AVAILABILITY: NTIS

<154>

Cook, J.A.; Pucinari, C.A.; Lingscheid, J.W.;

Rahnte, C.J.

Ford Motor Co.

ADDRESS: Dearborn, MI

TITLE: Automotive Gas Turbine Ceramic Regenerator

Design and Reliability Program. Final

Annual Report for Period July 1, 1975 to

September 30, 1976

Report No. COO-2630-18, 299 p.

1976, October

SPONSOR: Energy Research and Development

Administration, Division of Transportation

Energy Conservation

KEYWORDS: STIRLING ENGINES; HEAT EXCHANGERS;

COSTS; PERFORMANCE; REGENERATORS; GAS TURBINE

ENGINES; DIAGRAMS; GRAPHS (CHARTS); TABLES

(DATA); STRESS ANALYSIS; THERMODYNAMICS

AVAILABILITY: NTIS

<155>

Cooper, J.P.; Borg, I.Y.; O'Connell, L.G.;

Behrin, E.; Rubin, B.; Wiesner, H.

Lawrence Livermore Laboratory

ADDRESS: University of California, Livermore, CA

94550

TITLE: Lithium Requirements for Electric Vehicles

Using Lithium-Water-Air Batteries

Report No. UCRL-77440, COMP-760112-2, paper

prepared for the Symposium on United States

Lithium Resources and Requirements by the

Year 2000, January 22-24, 1976, Lakewood,

Colorado, 18 p.

1975, November 12

SPONSOR: Energy Research and Development

Administration

KEYWORDS: ELECTRIC VEHICLES; LITHIUM-WATER-AIR

BATTERIES; LITHIUM; BATTERIES; DEMAND

(ECONOMICS); FORECASTING

AVAILABILITY: NTIS

<156>

Corrigan, R.; Kirschchen, J.D.; Samuelson, R.J.

TITLE: The Carter Energy Plan - Some Answers to

the Questions

<156> CONT.

National Journal, 710-12 (May 7, 1977)
1977, May 7

KEYWORDS: NATIONAL ENERGY PLAN; ENERGY POLICY;
ENERGY CONSERVATION; FUEL CONSUMPTION;
RESIDENTIAL SECTOR; INDUSTRIAL SECTOR;
INCENTIVES; ECONOMIC IMPACT; PETROLEUM;
NATURAL GAS; AUTOMOBILES; TRANSPORTATION;
PRICES

<157>

Corsi, T.H.; Harvey, H.E.
Maryland, University of, College of Business and
Management; Kent State University
ADDRESS: NU, College Park, MD; KSU, Kent, Ohio
44240
TITLE: Travel Behavior Under Increases in
Gasoline Prices

Traffic Quarterly, XXXI(4), 605-624
1977, October

KEYWORDS: TRAVEL; BEHAVIOR; GASOLINE; PRICES;
TABLES (DATA); SOCIO-ECONOMIC FACTORS;
ATTITUDES; QUESTIONNAIRES; SURVEYS; INCOME;
WISCONSIN; GOVERNMENT POLICIES; ALLOCATIONS

<158>

Crain Automotive Group Inc.
ADDRESS: 965 East Jefferson Avenue, Detroit, MI
48207
TITLE: Automotive News

Weekly publication, v.p.
Weekly

KEYWORDS: AUTOMOBILES; ENGINES; DIESEL ENGINES;
MANUFACTURERS; FUEL ECONOMY; PRODUCTION;
VANS; TRUCKS; CONSUMERS; TIRES; ELECTRIC
VEHICLES; FUEL OIL; EMISSIONS; AUTOMOTIVE
TRANSMISSIONS; ROAD TESTS; SALES; IMPORTS;
EXPORTS; COSTS; TIRES; BUSES (VEHICLES);
PRICES; AUTOMOTIVE INDUSTRY; INTERNATIONAL
ANALYSIS; PHOTOGRAPHS; DESIGN; ADVERTISING

<159>

Crane, D.P.; Bowman, J.R.
U.S. Postal Service
ADDRESS: Washington, DC
TITLE: United States Postal Service Electric
Vehicle Program

Paper presented at the Fourth International
Electric Vehicle Symposium, held in
Dusseldorf, Germany, August 31 - September 2,
1976, 28 p.

1976, September

KEYWORDS: ELECTRIC VEHICLES; TRUCKS; ENERGY
CONSERVATION; AUTOMOTIVE FLEETS; AIR QUALITY;
DEVELOPMENT; CUPERTINO (CALIFORNIA); COSTS;
AUTOMOTIVE EMISSIONS; TABLES (DATA);
COMPARATIVE EVALUATIONS; GRAPHS (CHARTS);
FUEL CONSUMPTION; FUEL ECONOMY; POSTAL SERVICE
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<160>

Crier, F.S.
Washington Center for Metropolitan Studies
ADDRESS: 1717 Massachusetts Avenue NW,
Washington, DC 20036
TITLE: "The Energy Crisis and Low-Income
Americans: An Analysis of Impact and Options

171 p.
1977, June

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SPONSOR: Community Services Administration
KEYWORDS: INCOME; LOW INCOME GROUPS; COSTS;
SOCIO-ECONOMIC FACTORS; ENERGY CONSUMPTION;
RESIDENTIAL SECTOR; BEHAVIOR; ENERGY
CONSERVATION; TRANSPORTATION; HOUSING; SPACE
HEATING; AUTOMOBILES; TABLES (DATA); SURVEYS;
FUEL CONSUMPTION; ENERGY SHORTAGES

<161>

Cuffe, K.W.
General Motors Corp., Harrison Radiator Division
ADDRESS: Lockport, NY
TITLE: Air Conditioning and Heating Systems for
Trucks

Report No. SAE/SP-78/425, 44 p.
1978

KEYWORDS: TRUCKS; AIR CONDITIONING; DESIGN;
PERFORMANCE; HUMAN COMFORT; ENGINEERING;
THERMAL COMFORT; DIAGRAMS; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<162>

Curtis, V. (ed.)
American Society of Planning Officials
ADDRESS: Chicago, IL
TITLE: Land Use and the Environment - An
Anthology of Readings

207 p.

SPONSOR: U.S. Environmental Protection Agency,
Office of Research and Monitoring,
Environmental Studies Division
KEYWORDS: LAND USE; ENVIRONMENTAL QUALITY; AIR
POLLUTION; GOVERNMENT POLICIES; INCENTIVES;
URBAN AREAS; HISTORY; TABLES (DATA);
RECREATION; NOISE (SOUND); FORECASTING; LAND
DEVELOPMENT; ENVIRONMENTAL IMPACT

<163>

Cyrus, J.D.
Sandia Laboratories
ADDRESS: Albuquerque, NM 87115; Livermore, CA
94550
TITLE: Proceedings of the Hybrid Vehicle Interest
and Capability Assessment Workshop

Report No. SAND 76-0645, conference held
September 22-23, 1976, Albuquerque, New
Mexico, 40 p.

1977, March

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES;
CONFERENCES; HEAT ENGINES; SYSTEMS ANALYSIS;
STORAGE; AUTOMOTIVE CONTROL SYSTEMS
AVAILABILITY: NTIS

<164>

Dajani, J.S.; Stortstrom, R.G.; Warner, D.B.
Duke University, School of Engineering, Dept. of
Civil Engineering; Duke University, Duke
Environmental Center
ADDRESS: Durham, NC
TITLE: The Potential for Helicopter Passenger
Service in Major Urban Areas

Report No. N77-27087, NASA-CR-145224, 95 p.

1977, March

SPONSOR: National Aeronautics and Space
Administration, Langley Research Center

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 <164> CONT.
 KEYWORDS: HELICOPTERS; AIR TRANSPORTATION;
 COMPUTERIZED SIMULATION; COSTS; TABLES
 (DATA); REGIONAL ANALYSIS; URBAN AREAS;
 INTERCITY TRANSPORTATION; PASSENGER
 TRANSPORTATION; AIRPORTS; URBAN TRANSPORTATION
 AVAILABILITY: NTIS

<165>
 Data Resources Inc.
 ADDRESS: Lexington, MA
 TITLE: A Study of the Demand for Gasoline
 Final Report, Report No. PB-235254, 146 p.
 1974, July
 SPONSOR: Executive Office of the President,
 Council on Environmental Quality; U.S.
 Environmental Protection Agency
 KEYWORDS: GASOLINE; PRICES; FUEL CONSUMPTION;
 DEMAND (ECONOMICS); TAXES; VEHICLES; GROSS
 NATIONAL PRODUCT; INCOME; ECONOMETRIC MODELS;
 FORECASTING; AUTOMOBILES; TABLES (DATA);
 ELASTICITY (ECONOMICS); ECONOMIC IMPACT
 AVAILABILITY: NTIS

<166>
 Davis, D.D.; O'Connell, L.G.; Warner, S.E.;
 Paynard, A.E.; Rowlett, B.H.
 Lawrence Livermore Laboratory; Aircsearch
 Manufacturing Co.
 ADDRESS: LLL, Berkeley, CA
 TITLE: Battery-Flywheel Hybrid Electric Power
 System for Near Term Application. Volume 1:
 System Description Volume 2: System Design

Informal Report, Report No. UCID-17098, 52 pages
 for Volume 1, 81 pages for Volume 2
 1976, April 13
 SPONSOR: Energy Research and Development
 Administration
 KEYWORDS: TRANSPORTATION; BATTERIES; FLYWHEELS;
 HYBRID ELECTRIC-POWERED VEHICLES; ENERGY
 CONSUMPTION; ALTERNATE FUELS; ELECTRIC
 VEHICLES; LEAD-ACID BATTERIES; PERFORMANCE;
 PETROLEUM; ENERGY DEMAND; DESIGN; ELECTRIC
 VEHICLE RANGES
 AVAILABILITY: NTIS

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 Davis, D.D.; Renner, R.A.; Younger, P.C.; Epps,
 R.C.; Lerner, S.S.
 Lawrence Livermore Laboratory
 ADDRESS: University of California, P.O. Box 808,
 Livermore, CA 94550
 TITLE: Determination of the Effectiveness and
 Feasibility of Regenerative Braking Systems
 on Electric and Other Automobiles. Volume I
 - Summary

Report No. UCRL-52306/1, 74 p.
 1977, September 9
 SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; HYBRID
 ELECTRIC-POWERED VEHICLES; REGENERATIVE
 BRAKING; HISTORY; RECOVERY; UTILIZATION;
 FLYWHEELS; POWER TRAIN SYSTEMS; DIAGRAMS;
 BATTERIES; TABLES (DATA); GRAPHS (CHARTS);
 COSTS; FEASIBILITY
 AVAILABILITY: NTIS

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 Davis, D.D.; Renner, R.A.; Younger, P.C.; Epps,

R.C.; Lerner, S.S.
 Lawrence Livermore Laboratory
 ADDRESS: University of California, Livermore, CA
 94550
 TITLE: Determination of the Effectiveness and
 Feasibility of Regenerative Braking Systems
 on Electric and Other Automobiles. Volume
 II: Design Study and Analysis

Report No. UCRL-52306/2, v.p.
 1977, September 9
 SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: AUTOMOBILES; ENERGY STORAGE;
 TECHNOLOGY; ELECTRIC VEHICLES; REGENERATIVE
 BRAKING; HISTORY; DEVELOPMENT; TESTING;
 TRANSPORTATION; COST ANALYSIS; TABLES (DATA);
 PATENTS; HYBRID ELECTRIC-POWERED VEHICLES;
 ENERGY CONSERVATION; BATTERIES
 AVAILABILITY: NTIS

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 TITLE: Vanpooling Institutional Barriers

Report No. HCF/H5812-01, v.p.
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 SPONSOR: U.S. Dept. of Energy, Assistant
 Secretary for Conservation and Solar
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 KEYWORDS: INSTITUTIONAL FACTORS; REGULATIONS;
 VANPOOLS; LIABILITIES; INSURANCE; TAXES;
 OPERATION; GOVERNMENT POLICIES; LEGAL
 ASPECTS; STATE ANALYSIS
 AVAILABILITY: GPO, Stock No. 061-000-00085-2

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 Davis, F.W., Jr.; Oen, K.
 Tennessee, University of, Transportation Center
 ADDRESS: Knoxville, TN 37916
 TITLE: Solving Public Passenger Transportation
 Problems: A Need for Policy Reorientation.
 Volume II

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 DOT-TST-77-35, 26 p.
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 SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary, Office of University Research
 KEYWORDS: PASSENGER TRANSPORTATION; URBAN
 TRANSPORTATION; DEVELOPMENT; GOVERNMENT
 POLICIES; TAXICABS; BUSES (VEHICLES);
 AUTOMOTIVE FLEETS; PUBLIC TRANSPORTATION;
 CONSUMERS
 AVAILABILITY: NTIS

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 Dayman, B., Jr.
 California Institute of Technology, Jet
 Propulsion Laboratory
 ADDRESS: Pasadena, CA
 TITLE: Realistic Effects of Winds on the
 Aerodynamic Resistance of Automobiles

Paper No. 780337, presented at the Society of
 Automotive Engineers' Congress and
 Exposition, Cobo Hall, Detroit, Michigan,
 February 27 - March 3, 1978, 20 p.

1978
 KEYWORDS: AERODYNAMICS; WIND; FUEL ECONOMY;
 AUTOMOBILES; FUEL CONSUMPTION; VELOCITY;
 COMPUTER PROGRAMS; TABLES (DATA)
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 2.50

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Demetsky, M.J.; Noel, L.A.; Virkler, M.R.
Virginia, University of, Dept. of Civil
Engineering
ADDRESS: Charlottesville, VA 22901
TITLE: Methodology for the Design of Urban
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SPONSOR: U.S. Dept. of Transportation, Office of
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KEYWORDS: DESIGN; URBAN TRANSPORTATION; MASS
TRANSPORTATION; BUILDINGS; TRANSIT STATIONS
AVAILABILITY: NTIS

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Dennis, A.W.; Foley, J.T., Jr.; Hartman, W.P.;
Larson, D.W.
Sandia Laboratories
ADDRESS: Albuquerque, NM 87185
TITLE: Severities of Transportation Accidents
Involving Large Packages

Report No. SAND77-0001, v.p.
1978, May
SPONSOR: U.S. Dept. of Energy, Division of
Environmental Technology
KEYWORDS: TRANSPORTATION; ACCIDENTS; CONTAINERS;
HAZARDS; FIRE; RAIL TRANSPORTATION; TRUCKS;
AUTOMOBILES; WEIGHT; TABLES (DATA)
AVAILABILITY: NTIS

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Deosaran, G.; Sweeney, H.; Van Duzee, R.
Systems Analysis and Research Corp.; U.S. Dept.
of Transportation, Federal Aviation
Administration
ADDRESS: SAFC, 1801 K Street NW, Washington, DC;
USDOT/FAA, 800 Independence Avenue SW,
Washington, DC 20006
TITLE: Forecasts of Computer Airlines Activity

Report No. FAA-AVP-77-28, 139 p.
1977, July
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Aviation Administration, Office of Aviation
Policy
KEYWORDS: AVIATION; AIR TRANSPORTATION; PASSENGER
TRANSPORTATION; COMPUTING; FORECASTING;
REGIONAL ANALYSIS; MODELS; REVENUE; HISTORY;
TABLES (DATA); AIRPORTS; STATISTICS; GROWTH;
PUERTO RICO; PASSENGER EXPLANATIONS
AVAILABILITY: NTIS

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DeBeard, L.W.
General Motors Corp.
ADDRESS: Detroit, MI
TITLE: The Influence of Road Surface Texture on
Tire Rolling Resistance

Paper No. 780257, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 8 p.
1978
KEYWORDS: TIRES; FRICTION; WEAR; ROADS; SURFACES;
FUEL ECONOMY; TESTING; PERFORMANCE; MATERIALS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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DeWolf, J.B.; Davis, C.; Heinemann, P.C.
Charles Stark Draper Laboratory Inc.
ADDRESS: 68 Albany Street, Cambridge, MA 02139
TITLE: Computer-Based Resource Accounting Model
for Automobile Technology Impact Assessment

Report No. DOT-TSC-OST-76-39, 74 p.
1976, October
SPONSOR: U.S. Dept. of Transportation, Office of
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Technology; U.S. Dept. of Transportation,
Transportation Systems Center
KEYWORDS: MODELS; AUTOMOBILES; TECHNOLOGY
ASSESSMENT; RESOURCES; MATERIALS; ENERGY
DEMAND; COMPUTERIZED SIMULATION; INPUT-OUTPUT
ANALYSIS; LABOR ESTIMATES; CAPITAL; DEMAND
(ECONOMICS); TABLES (DATA); MANPOWER
AVAILABILITY: NTIS

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Dickson, E.M.; Ryan, J.W.; Saulyan, M.H.
Stanford Research Institute
ADDRESS: Menlo Park, CA 94025
TITLE: The Hydrogen Energy Economy: A Realistic
Appraisal of Prospects and Impacts

Praeger Special Studies in U.S. Economic, Social,
and Political Issues, 317 p.
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SPONSOR: National Science Foundation, RANN Program
KEYWORDS: HYDROGEN; HYDROGEN FUELS; TECHNOLOGY
ASSESSMENT; FORECASTING; HYDROGEN PRODUCTION;
HYDROGEN STORAGE; DISTRIBUTION; UTILIZATION;
SAFETY; COMPARATIVE EVALUATIONS; ECONOMICS;
COSTS; VEHICLES; AUTOMOTIVE FUELS; ALTERNATE
FUELS; AVIATION; AIR TRANSPORTATION;
UTILITIES; AMMONIA; SYNTHESIS; STEEL MAKING
AVAILABILITY: Praeger Publishers, 200 Park
Avenue, New York, NY 10017 \$18.50

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Dietz, H.
Scitran
ADDRESS: Box 5456, Santa Barbara, CA 93108
TITLE: Development of Batteries for
Electrically-Driven Vehicles

Report No. W76-33626, NASA-TT-F-17227, 27 p.;
Translated from Bosch Technische Berichte,
2(5), 211-219
1976, September
SPONSOR: National Aeronautics and Space
Administration
KEYWORDS: BATTERIES; ELECTRIC VEHICLES; FUEL
CELLS; RESEARCH; PERFORMANCE
AVAILABILITY: NTIS

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Doernberg, A.
Brookhaven National Laboratory, National Center
for Analysis of Energy Systems, Technology
Assessment Group
ADDRESS: Upton, NY 11973
TITLE: Impact of Selected Energy Conservation
Technologies on Baseline Demands

Report No. BNL-50745, 93 p.
1977, September
SPONSOR: U.S. Dept. of Energy
KEYWORDS: REGIONAL ANALYSIS; ENERGY CONSUMPTION;
TABLES (DATA); ENERGY CONSERVATION; COST
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RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
FORECASTING; INDUSTRIAL SECTOR; TRANSPORTATION
AVAILABILITY: NTIS

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Doggett, R.W.; Meyer, R.
International Research and Technology Corp.
ADDRESS: 7655 Old Springhouse Road, McLean, VA
22101

TITLE: The Transportation Energy Conservation
Network (TECHNET): A Summary Description

Report No. IRT-19900/1, 35 p.

1978, March 14

SPONSOR: Oak Ridge National Laboratory, Energy
Division, Data Management and Analysis Group
KEYWORDS: TRANSPORTATION; ENERGY CONSERVATION;
DEMAND (ECONOMICS); ENERGY CONSUMPTION;
ENVIRONMENTAL IMPACT; ECONOMIC IMPACT; TABLES
(DATA); MODELS; GOVERNMENT POLICIES;
SIMULATION; MATERIALS; TRANSPORTATION

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Doggett, R.W.; Meyer, R.; Heller, M.
International Research and Technology Corp.
ADDRESS: 7655 Old Springhouse Rd.; McLean, VA
22101

TITLE: Ten Scenarios of Transportation Energy
Conservation Using TECHNET

Report No. IRT-17200/2-R, 107 p.

1978, June

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
KEYWORDS: FORECASTING; MODELS; TRANSPORTATION;
GASOLINE; RATIONING; ENERGY CONSERVATION;
AUTOMOTIVE ENGINES; BRAYTON CYCLE; STIRLING
ENGINES; INTERNAL COMBUSTION ENGINES;
ECONOMIC IMPACT; ENERGY INTENSITY; MARKET;
ENERGY CONSUMPTION; AUTOMOBILES; GROWTH;
VEHICLE MILES TRAVELED; GROSS NATIONAL
PRODUCT; MILEAGE; TABLES (DATA)

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Dohner, A.R.
General Motors Corp., Research Laboratories
ADDRESS: Warren, MI
TITLE: Transient System Optimization of an
Experimental Engine Control System Over the
Federal Emissions Driving Schedule

Paper No. 780286, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan
February 27 - March 3, 1978, 20 p.

1978

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CONTROL; AUTOMOTIVE ENGINES; FUEL
CONSUMPTION; DESIGN; TESTING; GRAPHS
(CHARTS); CATALYTIC CONVERTERS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Donnelly, J.J., Jr.; Roessler, W.U.
Aerospace Corp., Environment and Energy
Conservation Division, Mobile Systems Group,
Office of Energy Conservation
TITLE: Fuel Consumption and Engine Horsepower
Projections for the Highway Transportation
Sector

79 p.

1978, April 28

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Office of
Highway Systems, Heat Engine Systems Branch
KEYWORDS: FUEL CONSUMPTION; HIGHWAY
TRANSPORTATION; AUTOMOBILES; TRUCKS; BUSES
(VEHICLES); MOTORCYCLES; MILEAGE; ENGINES;

SALES; FORECASTING; WEIGHT; CLASSIFICATIONS;
TABLES (DATA); SIZE; FUEL ECONOMY

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Donovan, Hamster and Mattien Inc.
ADDRESS: 1055 Thomas Jefferson St., Suite 414,
Washington, DC 20007
TITLE: Energy, the Environment and Land Use:
Literature Review

Report No. UCRL-13710 (Pt. 1), 190 p.

1976, November 5

SPONSOR: Lawrence Livermore Laboratory, Office of
Environmental Policy
KEYWORDS: BIBLIOGRAPHIES; ENERGY SUPPLIES; COAL;
NUCLEAR ENERGY; PETROLEUM; NATURAL GAS;
ALTERNATE FUELS; ELECTRIC POWER GENERATION;
ENERGY CONSUMPTION; ENERGY CONSERVATION;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
TRANSPORTATION; AGRICULTURE; LAND USE;
ENVIRONMENTAL IMPACT
AVAILABILITY: NTIS

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Donovan, Hamster and Mattien Inc.
ADDRESS: 1055 Thomas Jefferson St., Suite 414,
Washington, DC 20007
TITLE: Energy, the Environment, and Land Use.
Final Report

Report No. UCRL-13710 (Pt. 2), 151 p.

1976, November 5

SPONSOR: Lawrence Livermore Laboratory, Office of
Environmental Policy
KEYWORDS: LAND USE; ENVIRONMENTAL IMPACT; ENERGY
CONSERVATION; ENERGY CONSUMPTION; ENERGY
DEMAND; POLLUTION; ECONOMIC ANALYSIS; SITE
SELECTION; COAL; PETROLEUM; TRANSPORTATION;
PRODUCTION; NUCLEAR ENERGY; WASTE DISPOSAL
AVAILABILITY: NTIS

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Duffy, M.A.; Eiden, G.L.; Hamilton, C.W.; Drago,
V.J.
Battelle Columbus Laboratories
ADDRESS: 505 King Avenue, Columbus, OH 43201
TITLE: General Aviation Dynamics: An Extension
of the Cost Impact Study to Include
Interactions in the Forecasting of General
Aviation Activity. Volumes I-IV

Report No. FAA-APR-77-20, v.p

1977, April

SPONSOR: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy, Aviation Forecast Branch
KEYWORDS: FORECASTING; AVIATION; OPERATING COSTS;
MODELS; DATA BASES; SIMULATION; AIRCRAFT;
FUEL CONSUMPTION; UTILIZATION; TABLES (DATA);
GRAPHS (CHARTS); GOVERNMENT POLICIES;
REGULATIONS; DEMAND (ECONOMICS); AIR
TRANSPORTATION; OPERATION
AVAILABILITY: NTIS

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Dupree, W.G., Jr.
U.S. Dept. of Interior, Bureau of Mines, Division
of Interfuels Studies
ADDRESS: Washington, DC 20241
TITLE: Energy Consumption in the Transportation
Sector

Paper presented at the Fourth National Conference
on the "Effects of Energy Constraints on

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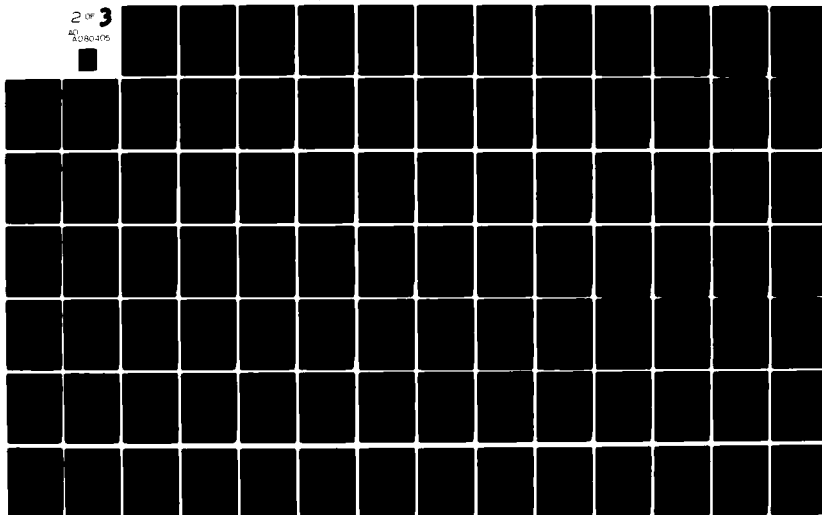
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Dustin, M.O.; Denington, R.J.
National Aeronautics and Space Administration,
Lewis Research Center

ADDRESS: Cleveland, OH 44135

TITLE: Test and Evaluation of 23 Electric Vehicles for State-of-the-Art Assessment

Report No. COMS/1011-21, NASA TM-73850, paper presented at the 1978 SAE Congress, Detroit, Michigan, February 27 - March 3, 1978, 24 p.

1978

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; TESTING; HYBRID ELECTRIC-POWERED VEHICLES; REGENERATIVE BRAKING; ENERGY CONSUMPTION; TABLES (DATA); GRAPHS (CHARTS); FUEL CONSUMPTION; PERFORMANCE

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Ebersole, W.; Rubin, D.; Darling, E.; Englander, I.; Frenkel, L.; Meyerhoff, M.; Prerau, D.; Schaeffer, R.H.; Morrison, J.

U.S. Dept. of Transportation, Transportation Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: The Daylight Saving Time Study.
Executive Summary - Final Report on the Operation and Effects of Daylight Saving Time

26 p.

1975, July

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans and International Affairs, Office of Transportation Energy Policy

KEYWORDS: ENERGY CONSERVATION; LEGISLATION; SAFETY; TRAVEL; DAYLIGHT SAVING TIME; TRANSPORTATION; ELECTRIC POWER; PUBLIC OPINION; CRIME; GOVERNMENT POLICIES; ACCIDENTS; TABLES (DATA)

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Ecklund, E.E.

U.S. Dept. of Energy, Division of Transportation Energy Conservation

ADDRESS: Washington, DC 20545

TITLE: Comparative Automotive Engine Operation When Fueled with Ethanol and Methanol

Report No. HCP/W1737-01, v.p.

1975, May

KEYWORDS: ALTERNATE FUELS; AUTOMOTIVE ENGINES; ETHANOL; METHANOL; GASOLINE; PERFORMANCE; COMPARATIVE EVALUATIONS; FUEL-AIR RATIO; FUEL ECONOMY; AUTOMOTIVE EMISSIONS; TESTING; GRAPHS (CHARTS); DRIVING CYCLE

AVAILABILITY: GPO, Stock No. 061-000-00074-7

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Energy and Environmental Analysis Inc.

ADDRESS: 1701 North Fort Myer Drive, Arlington,

VA 22209

TITLE: End Use Energy Consumption Data Base: Series 1 Tables

Report No. PB-281817, DOE/EIA-0014, 206 p.

1978, June

SPONSOR: U.S. Dept. of Energy, Energy Information Administration, Office of Energy Data

KEYWORDS: ENERGY CONSUMPTION; ECONOMIC ANALYSIS; INDUSTRIES; DATA BASES; FUELS; INDUSTRIAL SECTOR; MANUFACTURING; MINING; PAPER INDUSTRY; TEXTILE INDUSTRY; AGRICULTURE; RESIDENTIAL SECTOR; ELECTRIC UTILITIES; COMMERCIAL SECTOR; HOUSING; STATISTICS; INCOME; REGIONAL ANALYSIS; TRANSPORTATION; AUTOMOBILES; AIR TRANSPORTATION; WATER TRANSPORTATION; TABLES (DATA); BUSES (VEHICLES); STATE ANALYSIS

AVAILABILITY: NTIS

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Energy Research and Development Administration

ADDRESS: Washington, DC

TITLE: Proceedings of the Third International Electric Vehicle Symposium. Volumes 1 and 2

Report No. CONF-740215, proceedings of conference held February 19-21, 1974, Washington, DC, v.p.

1974

SPONSOR: Electric Vehicle Council

KEYWORDS: ELECTRIC VEHICLES; RESEARCH; BATTERIES; DRIVE TRAIN SYSTEMS; ELECTRIC POWER DEMAND; UTILITIES; ENVIRONMENTAL IMPACT; PASSENGER TRANSPORTATION; AUTOMOBILES; ELECTRIC VEHICLE RANGE; MARKET; TRUCKS; MAINTENANCE; HYBRID ELECTRIC-POWERED VEHICLES; UTILIZATION; ELECTRIC RAIL SYSTEMS; PERFORMANCE; EFFICIENCY; ECONOMIC ANALYSIS; PRODUCTION; BUSES (VEHICLES); DRIVING CYCLE; INTERNATIONAL ANALYSIS; DIAGRAMS; PHOTOGRAPHS

AVAILABILITY: NTIS

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Energy Research and Development Administration,
Assistant Administrator for Institutional Relations, Energy Extension Service

ADDRESS: Washington, DC 20545

TITLE: Bibliography Energy Extension Service

Report No. TIC/EES/BIB-1, 120 p.

1977, April

KEYWORDS: BIBLIOGRAPHIES; ENERGY CONSERVATION; SOLAR ENERGY; ENERGY CONSUMPTION; BUILDINGS; BEHAVIOR; ENERGY POLICY; ECONOMICS; WASTE PROCESSING; ENERGY DEMAND; ENERGY SHORTAGES; ENERGY RESOURCES; FOSSIL FUELS; AGRICULTURE; HOUSES; INDUSTRIES; TRANSPORTATION

AVAILABILITY: U.S. Dept. of Energy, Technical Information Center, P.O. Box 62, Oak Ridge, TN 37830

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Energy Research and Development Administration,
Division of Transportation Energy Conservation

ADDRESS: Washington, DC

TITLE: State-of-the-Art (SOA) Test and Data Project Review and Near-Term Electric Vehicle R&D Program Review

1977, May 20

KEYWORDS: ELECTRIC VEHICLES; TESTING; HYBRID ELECTRIC-POWERED VEHICLES; US ERDA; VELOCITY; GRAPHS (CHARTS); PHOTOGRAPHS; RESEARCH; PERFORMANCE

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Office of Assistant Administrator for
Environment and Safety; Energy Research and
Development Administration, Office of
Assistant Administrator for Conservation
ADDRESS: Washington, DC
TITLE: Environmental Development Plan: Electric
Vehicle Systems, FY 1978

Report No. EDP/C-01(77), 118 p.

1977, August

KEYWORDS: ELECTRIC VEHICLES; BATTERIES; US DOE;
ENVIRONMENTAL IMPACT; RESEARCH; ELECTRIC
POWER DEMAND; HEALTH; SAFETY; SOCIO-ECONOMIC
FACTORS; AIR QUALITY; NOISE POLLUTION
AVAILABILITY: WTIS

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Engelen, R.E.

Barton-Aschman Associates Inc.

TITLE: Joint Development: Institutional
Constraints and Potentials

Paper presented at the 54th Annual Meeting of the
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Transportation Research Record 565, 12-17

1976

SPONSOR: National Academy of Sciences,
Transportation Research Board

KEYWORDS: LAND USE; TRANSPORTATION SYSTEMS;
PLANNING; GOVERNMENT POLICIES; FUNDING;
LEGISLATION; INCENTIVES

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
565

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Engelhart, J.E.

Ford Motor Co.

ADDRESS: Detroit, MI

TITLE: The Origin and Uses of the Economy Van

Paper No. 780237, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

1978

KEYWORDS: VANS; HISTORY; UTILIZATION;
PHOTOGRAPHS; DESIGN; MARKET; SALES

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Erlbaum, W.S.

New York State Dept. of Transportation, Planning
and Research Bureau

ADDRESS: Albany, NY

TITLE: Gasoline Demand by Owner Characteristics

Report presented at the 54th Annual Meeting of the
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"Transportation Energy Conservation and
Demand," Transportation Research Record 561,
37-44

1976

KEYWORDS: GASOLINE; DEMAND (ECONOMICS);
OWNERSHIP; OWNERS; NEW YORK; AUTOMOBILES;
RATIONING; ALLOCATIONS; FUEL CONSUMPTION;
SIZE; AGE GROUPS; MILEAGE; SEX;
SOCIO-ECONOMIC FACTORS

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

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Erlbaum, W.S.; Hartgen, D.T.; Cohen, G.S.
New York State Dept. of Transportation, Planning
Division, Planning Research Unit

ADDRESS: Albany, NY 12232

TITLE: Automotive Energy Forecasts: Impact of
Price, Availability, and Efficiency

Preliminary Research Report 133, 99 p.

1977, December

KEYWORDS: NEW YORK; FUEL CONSUMPTION; VEHICLE
MILES TRAVELED; EMPLOYMENT; FUEL ECONOMY;
GASOLINE; PRICES; SOCIO-ECONOMIC FACTORS;
FORECASTING; MODELS; AUTOMOBILES; REGIONAL
ANALYSIS; TABLES (DATA); POPULATION
(STATISTICS); AUTOMOBILE REGISTRATIONS

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Erlbaum, W.S.; Trentacoste, H.F.; Knighton, R.G.;
Slavick, S.R.

New York State Dept. of Transportation, Planning
and Research Bureau, Planning Research Unit

ADDRESS: Albany, NY 12232

TITLE: New York State Intercity Travel Data,
1975. Volume II

Report No. DOT/RSPD/DPE/50-77-6, Volume 2 of 3,
40 p.

1977, May

SPONSOR: U.S. Dept. of Transportation, Office of
University Research

KEYWORDS: INTERCITY TRANSPORTATION;
TRANSPORTATION; NEW YORK; TRAVEL; DATA BASES;
STATISTICS; AIR TRANSPORTATION; AUTOMOBILES;
BUSES (VEHICLES); RAIL TRANSPORTATION;
SERVICES; TABLES (DATA)

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ESB Inc.

ADDRESS: 5 Penn Center Plaza, Philadelphia, PA
19103

TITLE: Cost and Design Study to Develop Lead-Acid
Batteries for Electric Vehicle Propulsion.
Volume 1

Report No. ANL-K-77-3621-1, 441 p.

1977

SPONSOR: Argonne National Laboratory

KEYWORDS: BATTERIES; ELECTRIC VEHICLES; LEAD-ACID
BATTERIES; COSTS; DESIGN; DIAGRAMS; RESEARCH;
MARKET

AVAILABILITY: WTIS

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Esposito, V.J.

U.S. Dept. of Energy

ADDRESS: Washington, DC

TITLE: Overview of Electric Vehicles in the
United States

Paper No. 780085, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 8 p.

1978

KEYWORDS: ELECTRIC VEHICLES; US DOE; RESEARCH;
HYBRID ELECTRIC-POWERED VEHICLES; BATTERIES;
PERFORMANCE; STANDARDS

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Ethyl Corp.
ADDRESS: 330 South Fourth Street, Richmond, VA
23219
TITLE: Emissions and Fuel Economy of the
Turbulent Flow System for European 4-Cyl
Engines

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1976, August
SPONSOR: Society of Automotive Engineers,
Milwaukee Section
KEYWORDS: FUEL ECONOMY; AUTOMOTIVE EMISSIONS;
STANDARDS; AUTOMOTIVE FUELS; AUTOMOTIVE
ENGINES; DESIGN; TESTING; GRAPHS (CHARTS);
AUTOMOTIVE TRANSMISSIONS; VELOCITY; TABLES
(DATA)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 for SAE SP-411

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General Motors Corp., Research Laboratories
ADDRESS: Warren, MI 48090
TITLE: Exhaust Emissions, Fuel Consumption and
Traffic: Relations Derived from Urban
Driving Schedule Data

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1977, December 7
KEYWORDS: AUTOMOTIVE EMISSIONS; FUEL CONSUMPTION;
TRAFFIC; URBAN TRANSPORTATION; VELOCITY;
TRAVEL TIME; VEHICLE TRIPS; HYDROCARBONS;
CARBON MONOXIDE; NITROGEN OXIDES; TABLES
(DATA); GRAPHS (CHARTS)

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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
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ADDRESS: Washington, DC
TITLE: Economic Report of the President Together
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KEYWORDS: ECONOMICS; ECONOMIC POLICY; GOVERNMENT
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(DATA); STATISTICS
AVAILABILITY: GPO, Stock No. 040-000-00389-4

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Executive Office of the President, Office of
Management and Budget
ADDRESS: Washington, DC 20503

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TITLE: The United States Budget in Brief - Fiscal
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KEYWORDS: BUDGETS; FORECASTING; ECONOMIC POLICY;
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TABLES (DATA)
AVAILABILITY: GPO, Stock No. 041-001-00133-6

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Exxon Research and Engineering Co., Government
Research Laboratories; Science Application
Inc., Combustion and Propulsion Technology
Division
ADDRESS: ERGE, P.O. Box 8, Linden, NJ 07036;
SAI, 20335 Ventura Boulevard, Suite 423,
Woodland Hills, CA 91364
TITLE: Fundamental Characterization of Alternate
Fuel Effects in Continuous Combustion Systems

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No. 1, v.p.
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SPONSOR: U.S. Dept. of Energy, Division of
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KEYWORDS: ALTERNATE FUELS; COMBUSTION; CHEMICAL
PROPERTIES; MODELS; COMBUSTION PROPERTIES;
MODELS; GAS TURBINE ENGINES; HYDROGEN;
NITROGEN; THERMODYNAMIC PROPERTIES; TURBULENT
FLOW; DROPLETS; SPRAYS; DECOMPOSITION;
OXIDATION; GRAPHS (CHARTS)
AVAILABILITY: NTIS

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Fairweather, R.G.
Perkins Engines Co.
ADDRESS: United Kingdom
TITLE: Gas Emissions and Fuel Economy of the
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February 28-March 4, 1977, 12 p.
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SPONSOR: Society of Automotive Engineers
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ENGINES; AUTOMOTIVE EMISSIONS; CARBON
MONOXIDE; NITROGEN DIOXIDE; HYDROCARBONS;
GRAPHS (CHARTS); FUEL ECONOMY; TESTING; WEIGHT
AVAILABILITY: Society of Automotive Engineers,
Inc., 400 Commonwealth Drive, Warrendale, PA
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Faucett (Jack) Associates Inc.
ADDRESS: 5454 Wisconsin Avenue, Chevy Chase, MD
20015
TITLE: Update to the National Energy Accounts:
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Volume II. Program Documentation

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SPONSOR: Federal Energy Administration
KEYWORDS: ENERGY FLOW; TABLES (DATA); COMPUTER
PROGRAMS

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SPONSOR: Federal Energy Administration, Office of
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INDUSTRIAL SECTOR; MINING; TRANSPORTATION;
AGRICULTURE; CONSTRUCTION; UTILITIES;
COMMERCIAL SECTOR; EXPORTS; ENERGY
CONVERSION; ENERGY FLOW; ELECTRIC POWER
DEMAND; TABLES (DATA); RESIDENTIAL SECTOR;
NATURAL GAS; FUEL OIL; FOSSIL FUELS

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Fazzolare, R.A. (ed.); Smith, C.B. (ed.)
Interdisciplinary Group for Ecology, Development,
and Energy (EDEM); Arizona, University of,
Dept. of Engineering, Energy Systems
Engineering Program

ADDRESS: EDEM, P.O. Box 64369, Los Angeles, CA
90064; UA, Tucson, AR 85721

TITLE: Energy Use Management: Proceedings of the
International Conference. Volumes I and II

Conference held at Tucson, Arizona, October
24-28, 1977, 1033 p. for Volume I, 734 p. for
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TRANSPORTATION; PUBLIC TRANSPORTATION;
INTERCITY TRANSPORTATION; CARGO
TRANSPORTATION; RAIL TRANSPORTATION;
PIPELINES; TELECOMMUNICATION; AGRICULTURE;
LIVESTOCK; PRODUCTION; FOOD INDUSTRY; OPEC;
DEVELOPING COUNTRIES; NUCLEAR ENERGY; ENERGY
SUPPLIES; LAND USE; TECHNOLOGY; ENERGY
CONSERVATION; ENERGY MANAGEMENT; ECONOMICS;
ENERGY DEMAND; UNCONVENTIONAL ENERGY SOURCES;
ACCOUNTING; INDUSTRIAL SECTOR; ENERGY
CONSUMPTION; PERFORMANCE; DESIGN; WASTE HEAT;
HEAT RECOVERY; NATURAL GAS; COAL; LOAD
MANAGEMENT; ELECTRIC POWER; INDUSTRIES;
COMMERCIAL SECTOR; AIR CONDITIONING; SPACE
HEATING; BUILDINGS; STANDARDS; CONSTRUCTION;
COMPUTERIZED SIMULATION; OPERATION;
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APPLIANCES; SOLAR ENERGY

AVAILABILITY: Pergamon Press, Maxwell House,
Fairview Park, Elmsford, New York, NY 10523

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Federal Energy Administration, Office of Energy
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ADDRESS: Washington, DC 20461

TITLE: Consumers' Attitudes, Knowledge, and
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CONSERVATION; SURVEYS; GASOLINE; NATURAL GAS;
TRANSPORTATION; RESIDENTIAL SECTOR; TABLES
(DATA); INFORMATION; HOUSES; SPACE HEATING;
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ADDRESS: Washington, DC 20461

TITLE: Project Independence Evaluation System
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KEYWORDS: ENERGY DEMAND; PROJECT INDEPENDENCE;
ECONOMETRIC MODELS; PETROLEUM PRODUCTS;
NATURAL GAS; ELECTRIC POWER; COAL;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
INDUSTRIAL SECTOR; TRANSPORTATION;
SIMULATION; ENERGY MODELS; TABLES (DATA)

AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy
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Analysis

ADDRESS: Washington, DC 20461

TITLE: Project Independence Evaluation System
(PIES) Documentation. Volume 14. A User's
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Volume 14 of 15 volumes, Report No. PB-268850,
FEA/N-77/115, 72 p.

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KEYWORDS: FORECASTING; MODELS; COMPUTER PROGRAMS;
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EVALUATIONS; PROJECT INDEPENDENCE; US FEA;
ENERGY DEMAND; ENERGY SUPPLIES; PETROLEUM;
NATURAL GAS; COAL; ELECTRIC UTILITIES;
ECONOMICS; TRANSPORTATION

AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy
Information and Analysis, Office of Data and
Analysis; ICF Inc.

ADDRESS: FEA, Washington, DC; ICF, 1990 H Street
NW, Suite 400, Washington, DC 20461

TITLE: Project Independence Evaluation System
(PIES) Documentation. Volume 6.
Methodology for Improving the Price
Sensitivity of the PIES Oil and Gas Supply
Curves

Volume 6 of 15 volumes, Report No. PB-264069,
FEA/N-76/416, 44 p.

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PETROLEUM; NATURAL GAS; SUPPLY (ECONOMICS);
ENERGY MODELS; RESERVES; GEOLOGY; ECONOMIC
MODELS; ENERGY SUPPLIES

AVAILABILITY: NTIS

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ADDRESS: FEA, Washington, DC; ICF, 1990 H Street,
NW, Suite 400, Washington, DC 20036

TITLE: Project Independence Evaluation System
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Methodology for Enabling the PIES Oil and Gas
Supply Curves to Respond to Non-Constant
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FEA/N-76/418, 42 p.

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ENERGY SUPPLIES; INVESTMENTS

AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis; ICF Inc.
 ADDRESS: FEA, Washington, DC; ICF, 1990 M Street, N.W., Suite 400, Washington, DC 20036
 TITLE: Project Independence Evaluation System (PIES) Documentation. Volume 9. Allocation of Petroleum Activity to Oil and Natural Gas in the FEA Oil and Gas Supply Model

Volume 9 of 15 volumes, Report No. PB-265772, FEA/N-76/419, 68 p.

1976, September

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AVAILABILITY: NTIS

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 ADDRESS: FEA, Washington, DC; ICF, 1990 M Street, N.W., Suite 400, Washington, DC 20036
 TITLE: Project Independence Evaluation System (PIES) Documentation. Volume 13. Coal and Electric Utility Conventions for PIES

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1976, September

KEYWORDS: COAL; COAL MINES; FORECASTING; ELECTRIC UTILITIES; ENERGY MODELS; PROJECT INDEPENDENCE; CAPACITY; PRICES; SUPPLY (ECONOMICS); TABLES (DATA)

AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis; Logistics Management Institute
 ADDRESS: FEA, Washington, DC; LMI, 4701 Sangamore Road, Washington, DC 20016
 TITLE: Project Independence Evaluation System (PIES) Documentation. Volume I: The Integrating Model of the Project Independence Evaluation System

Volume 1 of 15 volumes, Report No. PB-263020, FEA/N-76/411, 432 p.

1976, September

KEYWORDS: MODELS; ENERGY POLICY; FORECASTING; FOSSIL FUELS; PROJECT INDEPENDENCE; ENERGY DEMAND; ENERGY SUPPLIES; COAL; PETROLEUM; NATURAL GAS; PRODUCTION; REFINERIES; ELECTRIC UTILITIES; SYNTHETIC FUELS; TRANSPORTATION; RAIL TRANSPORTATION; BARGES; PIPELINE TRANSPORTATION; ELECTRIC POWER; PRICES; TABLES (DATA); ENERGY CONSERVATION

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 TITLE: Findings and Views Concerning the Exemption of Motor Gasoline from the Mandatory Petroleum Allocation and Price Regulations. Final Report

Report No. FEA/N-77/337, v.p.

1977, September

KEYWORDS: ENERGY POLICY; GASOLINE; PETROLEUM; PRICES; ALLOCATIONS; REGULATIONS; TABLES (DATA); GRAPHS (CHARTS); SALES; MARKET; DEMAND (ECONOMICS); SUPPLY (ECONOMICS);

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CONSUMER PRICE INDEX; ECONOMIC IMPACT; HISTORY; PETROLEUM REFINERIES; CAPACITY AVAILABILITY: GPO

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Federal Power Commission, Bureau of Natural Gas
 ADDRESS: Washington, DC
 TITLE: Natural Gas Transported in 1974 by FPC Regulated Pipelines: Geographic Flow Patterns and Intercompany Relationships

556 p.

1976, August

KEYWORDS: NATURAL GAS; PIPELINE TRANSPORTATION; ENERGY SUPPLIES; SHIPMENTS; INTERSTATE TRANSPORTATION; TABLES (DATA); MARKET; STATE ANALYSIS; ENERGY CONSUMPTION; REGIONAL ANALYSIS; GAS INDUSTRY; GAS FLOW

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Fels, M.V.
 Princeton University, Center for Environmental Studies
 ADDRESS: Princeton, NJ
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KEYWORDS: FUEL ECONOMY; TESTING; AUTOMOBILE DRIVERS; AUTOMOTIVE EMISSIONS; VEHICLE MILES TRAVELED; ELECTRIC VEHICLES; TABLES (DATA); ENVIRONMENTAL PROTECTION AGENCY; DRIVING CYCLE

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Pendell, F.
 TRW Inc., Defense and Space Systems Group
 ADDRESS: One Space Park, Redondo Beach, CA 90278
 TITLE: Wall Quench and Flammability Limit Effects on Exhaust Hydrocarbon Emission. Final Report, Phase 2, October 1, 1976 - September 30, 1977

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1977, November

SPONSOR: U.S. Dept. of Energy, Division of Conservation Research and Technology
 KEYWORDS: AUTOMOTIVE ENGINEERING; TECHNOLOGY; SPARK IGNITION ENGINES; INTERNAL COMBUSTION ENGINES; STANDARDS; AUTOMOTIVE EMISSIONS; HYDROCARBONS; COMBUSTION; HEAT LOSS; TESTING; MODELS; DIAGRAMS

AVAILABILITY: NTIS

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 ADDRESS: 1221 Avenue of the Americas, New York, NY 10020
 TITLE: Fleet Owner Marketing Handbook, Number Four

32 p.

1977

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Fleming, R.D.; Campbell, A.D.

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ADDRESS: Bartlesville, OK
TITLE: An Investigation of Fuel Economy Potential
of Six 1976-Model Vehicles

Report No. BHRC/RI-77/5, 52 p.

1977, July

KEYWORDS: TABLES (DATA); GRAPHS (CHARTS); FUEL
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URBAN TRANSPORTATION; AUTOMOTIVE EMISSIONS;
COMPARATIVE EVALUATIONS; ENERGY CONSERVATION
AVAILABILITY: NTIS

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Florida Dept. of Administration, State Energy
Office

TITLE: Monthly Florida Motor Gasoline
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43 p.

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KEYWORDS: FLORIDA; GASOLINE; CONSUMPTION; STATE
GOVERNMENT; PLANNING; URBAN AREAS; REGIONAL
ANALYSIS; MAPS; TABLES (DATA)

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Plott, A.C.; Watts, L.R.; Roth, R.D.
American Trucking Associations Inc., Dept. of
Research and Transport Economics
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: The Ton-Mile: Does It Properly Measure
Transportation Output?

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
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TRANSPORTATION; HISTORY; HIGHWAY
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FUEL CONSUMPTION; COMPARATIVE EVALUATIONS

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U.S. Dept. of Transportation, National Highway
Traffic Safety Administration, Technical
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ADDRESS: Washington, DC 20590
TITLE: Recreational Vehicles: A Subject
Bibliography from Highway Safety Literature

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1977, July

KEYWORDS: BIBLIOGRAPHIES; RECREATION VEHICLES;
ABSTRACTS; VANS; MOBILE HOMES;
TRANSPORTATION; SAFETY
AVAILABILITY: NTIS

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Flynn, L.
U.S. Dept. of Transportation, National Highway
Traffic Safety Administration, Technical
Reference Division
ADDRESS: Washington, DC 20590
TITLE: Motor Vehicle Titling and Registration: A
Subject Bibliography from Highway Safety
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Report No. PB-271235, DOT HS-802 414, 99 p.

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KEYWORDS: BIBLIOGRAPHIES; ABSTRACTS; VEHICLES;
VEHICLE REGISTRATIONS; SAFETY; REGIONAL
ANALYSIS; AUTOMOBILES; MOTORCYCLES; HIGHWAY
TRANSPORTATION
AVAILABILITY: NTIS

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California Dept. of Transportation; McKinsey and
Co. Inc.
ADDRESS: MC, San Francisco, CA
TITLE: A New Direction for the Highway Program

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the Transportation Research Board, published
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1976

KEYWORDS: HIGHWAYS; CONSTRUCTION; CALIFORNIA;
STATE GOVERNMENT; PLANNING; SAFETY; OPERATING
COSTS; FINANCING; GRAPHS (CHARTS);
FORECASTING; MANAGEMENT
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.60 for Transportation Research Record 585

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Port, F.W.
U.S. Dept. of Transportation, Urban Mass
Transportation Administration
ADDRESS: Washington, DC
TITLE: Walk Time from Vehicle to Final Destination

Paper presented at the 52nd Annual Meeting of the
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Research Record No. 439, pp. 26-31

1973

SPONSOR: National Academy of Sciences, National
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AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.00 for Highway Research Record No. 439

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Foster, R.W.
Miami, University of, Ryder Program in
Transportation; Escher Technology Associates
ADDRESS: UM, Coral Gables, FL 33124; ETA, St
John's, MI
TITLE: Alternative Fuels and Intercity Trucking

Report No. HCF/H3294-01, 302 p.

1978, June

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; TRUCKS; INTERCITY
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CONSERVATION; DIESEL ENGINES; TRACTORS;
INTERNAL COMBUSTION ENGINES; FUEL
CONSUMPTION; HIGHWAY TRANSPORTATION;
OWNERSHIP; EMPTY BACKHAUL; ENERGY RESOURCES;
COMMERCIALIZATION; DESIGN; DEMONSTRATION;
TABLES (DATA); DIAGRAMS
AVAILABILITY: NTIS

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Foster, R.W.; Escher, W.J.D.
Escher Technology Associates
ADDRESS: St. Johns, MI
TITLE: Hydrogen-Fueled Railroad Motive Power

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ALTERNATE FUELS; FEASIBILITY; LOCOMOTIVES;
DIESEL ENGINES; INTERNAL COMBUSTION ENGINES;
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TABLES (DATA); GRAPHS (CHARTS)

AVAILABILITY: NTIS

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Prabetti, A.J., Jr.; Wilcock, D.K.; Lovell, R.A.,
Jr.; Gordon, M.; Maddox, F.; Sheldon, C., II;
Westfield, J.D.

Development Sciences Inc.

ADDRESS: East Sandwich, MA

TITLE: Application of New Energy Analysis to
Consumer Technologies

Report No. ERDA 77-14, 371 p.

1977, February

SPONSOR: Energy Research and Development
Administration, Office of Planning, Analysis,
and EvaluationKEYWORDS: NET ENERGY; ENERGY CONSUMPTION; ENERGY
DEMAND; ENERGY SUPPLIES; RESIDENTIAL SECTOR;
SPACE HEATING; HOT WATER HEATING; AIR
CONDITIONING; ELECTRIC POWER; NATURAL GAS;
PETROLEUM; COAL; SOLAR SPACE HEATING; HEAT
PUMPS; ANNUAL CYCLE ENERGY SYSTEM; STEAM;
ELECTRIC POWER; AUTOMOBILES; ELECTRIC
VEHICLES; TRANSPORTATION; INPUT-OUTPUT
ANALYSIS; TABLES (DATA); NUCLEAR ENERGY;
GEOTHERMAL ENERGY; HYDROELECTRIC POWER;
INDUSTRIAL SECTOR

AVAILABILITY: NTIS

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Praize, W.E.

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ADDRESS: Westgate Park, McLean, VA

TITLE: The Impact of the U.S. Energy Situation on
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INTENSITY; ENERGY CONSUMPTION; GRAPHS (CHARTS)

AVAILABILITY: NTIS

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Boston College, Laboratory of Psychosocial Studies

ADDRESS: Chestnut Hill, MA

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Research Council, Transportation Research
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Program; American Association of State
Highway and Transportation Officials; U.S.
Dept. of Transportation, Federal Highway
AdministrationKEYWORDS: TRANSPORTATION; TRAVEL; BEHAVIOR;
SOCIO-ECONOMIC FACTORS; URBAN TRANSPORTATION;

ATTITUDES; ENVIRONMENTAL FACTORS

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ADDRESS: Washington, DC

TITLE: Per Capita Income: Regional and
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RURAL AREAS; MIGRATION; INDUSTRIES;
SOUTHEASTERN STATES; POPULATION (STATISTICS);
SOUTHWESTERN STATES; ROCKY MOUNTAINS;
MANUFACTURING; GRAPHS (CHARTS); LABOR
MIGRATION; EARNINGS; TABLES (DATA); STATE
ANALYSIS

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Fuller, R.F.

U.S. Dept. of Energy, Energy Information
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ADDRESS: Washington, DC 20461

TITLE: Federal Energy Data System (FEDS):
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HYDROELECTRIC POWER; NUCLEAR POWER; CHEMICAL
FEEDSTOCKS; RAW MATERIALS; RESIDENTIAL
SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR;
TRANSPORTATION; ELECTRIC UTILITIES; STATE
ANALYSIS; TABLES (DATA); GRAPHS (CHARTS)

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Missouri, University of, Dept. of Chemical
Engineering

ADDRESS: Rolla, MO 65401

TITLE: Toward Establishing a National Energy
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LIQUEFACTION; COAL GASIFICATION; RESERVES;
ENERGY POLICY; ENERGY RESOURCES; NATURAL GAS;
IMPORTS; TABLES (DATA); ENERGY CONVERSION;
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FUELED POWER PLANTS; PETROCHEMICALS;
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Galbraith, A.D.

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Palo Alto Research Laboratory

ADDRESS: Palo Alto, CA

TITLE: The Lithium-Water-Air Battery for
Automotive PropulsionPaper presented at the Fourth International
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AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Maintenance

120 p.

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KEYWORDS: MOTORCYCLES; SURVEYS; OWNERSHIP;
UTILIZATION; MAINTENANCE; MILEAGE; COMMUTING;
ENGINES; TABLES (DATA); QUESTIONNAIRES
AVAILABILITY: Motorcycle Industry Council Inc

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Pennsylvania State University, Institute for
Research on Land and Water Resources

ADDRESS: University Park, PA 16802

TITLE: Transportation and Land Development:
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SPONSOR: National Academy of Sciences,
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DEVELOPMENT; MOBILITY; SOCIO-ECONOMIC
FACTORS; PLANNING; ENVIRONMENTAL IMPACT;
URBAN AREAS; GROWTH

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
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U.S. Dept. of Transportation, Transportation
Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: National Transportation Statistics

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1977, November

SPONSOR: U.S. Dept. of Transportation, Technology
Sharing Program Office

KEYWORDS: PASSENGER TRANSPORTATION; CARGO
TRANSPORTATION; AIR TRANSPORTATION;
AUTOMOBILES; TRUCKS; BUSES (VEHICLES); RAIL
TRANSPORTATION; WATER TRANSPORTATION;
PIPELINE TRANSPORTATION; PETROLEUM; NATURAL
GAS; GRAPHS (CHARTS); TABLES (DATA); REVENUE;
COSTS; STATISTICS; TRANSPORTATION; ENERGY
CONSUMPTION; PERFORMANCE; ENERGY DEMAND;
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EARNINGS; INVENTORIES; FINANCIAL DATA;
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U.S. Dept. of Transportation, Transportation
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ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: National Transportation Statistics
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of Policy, Plans, and Administration

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INTERCITY TRANSPORTATION; AIR TRANSPORTATION;
AUTOMOBILES; TRUCKS; BUSES (VEHICLES); RAIL
TRANSPORTATION; PRICES; EARNINGS;
INVENTORIES; FINANCIAL DATA; WATER
TRANSPORTATION; PIPELINE TRANSPORTATION;
NATURAL GAS; GRAPHS (CHARTS); TABLES (DATA);
REVENUE; COSTS; STATISTICS; ENERGY
CONSUMPTION; PETROLEUM

AVAILABILITY: GPO

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ADDRESS: Washington, DC 20548

TITLE: Effective Fuel Conservation Programs Could
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Report No. PB-271249, CED-77-98, 75 p.

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FACTOR; NOISE POLLUTION; AIRPORTS; GOVERNMENT
POLICIES

AVAILABILITY: NTIS

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ADDRESS: Washington, DC

TITLE: Report to the Congress: An Evaluation of
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1977, July 25

SPONSOR: U.S. House of Representatives, Committee
on Interstate and Foreign Commerce,
Subcommittee on Energy and Power

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POLICIES; ENERGY DEMAND; TRANSPORTATION;
RESIDENTIAL SECTOR; INDUSTRIAL SECTOR;
COMMERCIAL SECTOR; ENERGY CONVERSION;
GASOLINE; BUILDINGS; PETROLEUM; NATURAL GAS;
TAXES; COAL; NUCLEAR ENERGY; UNCONVENTIONAL
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AVAILABILITY: \$1.00

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ADDRESS: Schenectady, NY 12301

TITLE: Near-Term Electric Vehicle Program: Phase
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1977, August

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Office

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 ADDRESS: Warren, MI 48090
 TITLE: General Motors Response to Proposed Fuel Economy and Emissions Testing and Other Procedures for 1978 and Later Model Automobiles

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KEYWORDS: URBAN TRANSPORTATION; WASHINGTON DC; RAPID TRANSIT SYSTEMS; ENERGY CONSERVATION; ENERGY DEMAND; US ERDA; BENEFIT COST ANALYSIS; CONSTRUCTION; PLANNING; ENERGY SHORTAGES; INPUT-OUTPUT ANALYSIS; ENERGY CONSUMPTION; COMPARATIVE EVALUATIONS; PASSENGER TRANSPORTATION; SOCIO-ECONOMIC FACTORS

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 ADDRESS: 1776 Massachusetts Ave. NW, Washington, DC
 TITLE: Energy Analysis: A New Public Policy Tool

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AVAILABILITY: Westview Press, 5500 Central Avenue, Boulder, CO

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 AVAILABILITY: NTIS

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 Colorado, University of, Graduate School of Business Administration, Business Research Division; Travel Reference Center; Travel Research Association
 ADDRESS: CU, Boulder, CO 80302; TPA, Salt Lake City, UT 84108
 TITLE: Travel Research Bibliography: A Bibliography of the Holdings of the Travel Reference Center

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 ADDRESS: Menlo Park, CA 94025
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 ADDRESS: Box 5456, Santa Barbara, CA 93108
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 ADDRESS: 359 Allston St., Cambridge, MA 02139
 TITLE: Development of A Methodology to Allocate Liquid Fossil Fuel Consumption by County

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 AVAILABILITY: NTIS

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Goldmann, C.E.

Mobil R&D Corp.

ADDRESS: P.O. Box 1025, Princeton, NJ 08540

TITLE: A Synthesized Engine Oil Providing Fuel Economy Benefits

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SPONSOR: Society of Automotive Engineers, Milwaukee Section

KEYWORDS: AUTOMOTIVE ENGINES; PERFORMANCE; FUEL ECONOMY; LUBRICATING OILS; COMPARATIVE EVALUATIONS; TESTING; IMPORTS

AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 for SAE SP-411

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General Motors Corp., Research Laboratories, Transportation and Urban Analysis Dept.

ADDRESS: Warren, MI 48090

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 1976, August 9

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Gonima, W.G.

Southern California Gas Co.

ADDRESS: Los Angeles, CA

TITLE: Use of Natural Gas as a Primary Vehicular Fuel for a Public Utility Fleet

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AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096

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Gooding, D.I.

New York State Dept. of Transportation, Planning

Division

ADDRESS: Albany, NY 12232

TITLE: Automotive Energy Use: A Baseline Projection for New York State

Preliminary Research Report 124, 47 p.

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KEYWORDS: NEW YORK; ENERGY CONSERVATION; FORECASTING; AUTOMOBILES; FUEL CONSUMPTION; EFFICIENCY; GROWTH; VEHICLES; GASOLINE; VEHICLE REGISTRATIONS; TABLES (DATA); REGIONAL ANALYSIS; FUEL ECONOMY; HIGHWAY TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE MILES TRAVELED

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Gordian Associates Inc.

ADDRESS: 711 Third Ave, New York, NY

TITLE: Energy Efficiency Improvement Targets: Petroleum and Coal Products (SIC 29). Volume 2: Technical Appendices

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SPONSOR: Federal Energy Administration, Office of Industrial Reporting Programs

KEYWORDS: ENERGY CONSERVATION; PETROLEUM INDUSTRY; COAL INDUSTRY; EQUIPMENT; DESIGN; DIAGRAMS; HEAT EXCHANGERS; TABLES (DATA); OCTANE; PETROLEUM REFINING; CONCRETES; ASPHALTS; LUBRICATING OILS; CAPITAL COSTS; ECONOMIC ANALYSIS; PETROLEUM PRODUCTS; EFFICIENCY; COKE; FORECASTING; GASOLINE; ENERGY CONSUMPTION; POLLUTION CONTROL; CAPACITY; PETROLEUM

AVAILABILITY: NTIS

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ADDRESS: Kendall Square, Cambridge, MA 02142

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Report No PB-231880, DOT-TSC-OST-73-43, 130 p.

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AVAILABILITY: NTIS

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U.S. Environmental Protection Agency; U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Transportation Planning Office

ADDRESS: Washington, DC

TITLE: Vanpooling: An Update

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AVAILABILITY: GPO

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U.S. Dept. of Labor, Bureau of Labor Statistics
ADDRESS: Washington, DC 20212
TITLE: Employment and Earnings
Monthly Publication, v.p.
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AVAILABILITY: GPO

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Greene, D.L.; O'Connor, T.P.
Oak Ridge National Laboratory, Energy Division, Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: An Investigation of the Variability of Gasoline Consumption Among States
Report No. ORNL-5391, 61 p.
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SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Data Analysis Branch
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AVAILABILITY: NTIS

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ADDRESS: Oak Ridge, TN 37830
TITLE: Regional Transportation Energy Conservation Data Book. Edition 1
Report No. ORNL-5435 Special, 530 p.
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SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
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AVAILABILITY: NTIS

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ADDRESS: Box 55, Saugatuck Station, Westport, CT 06880
TITLE: Statistics with Application to Highway Traffic Analyses
Second Edition, 179 p.
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TITLE: Vanpooling Demonstration Project
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SPONSOR: U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Transportation Programs Office
KEYWORDS: VANPOOLS; MARKETING; COMMUTERS; OWNERSHIP; VANS; CORPORATIONS; INCENTIVES; PLANNING; PARKING; ADVERTISING
AVAILABILITY: GPO, Stock No. 061-000-00083-6

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Report No. MCP/H60437-01, 83 p.
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Grier Partnership
ADDRESS: 6532 E. Halbert Road, Bethesda, MD 20034
TITLE: Energy Consumption, Income, and Housing

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Hebrew University
ADDRESS: Jerusalem, Israel
TITLE: Economic Approach to Value of Time and Transportation Choice

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Guess, R.H.; Lustenader, E.L.
General Electric Co.
ADDRESS: New York, NY
TITLE: Development of a High Performance and

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1976, September

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GRAPHS (CHARTS)

AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Gulf Research and Development Co.

ADDRESS: Pittsburgh, PA

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TESTING; DRIVING CYCLE; DYNAMOMETERS; OCTANE;
SEASONAL VARIATIONS; AUTOMOTIVE EMISSIONS

AVAILABILITY: GPO, Stock No. 061-000-00112-3

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Brookhaven National Laboratory, National Center
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Assessment Group

ADDRESS: Upton, NY 11973

TITLE: A Study of Potential Coal Utilization:
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1977, December

SPONSOR: U.S. Dept. of Energy

KEYWORDS: COAL; UTILIZATION; FORECASTING; FUEL
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SYNTHETIC FUELS; MARKET; COSTS; PRODUCTION;
ENERGY SUPPLIES; PETROLEUM; ALLOCATIONS;
TABLES (DATA)

AVAILABILITY: NTIS

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Haefele, K.

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ADDRESS: Germany

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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
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TITLE: Methanol: Its Synthesis, Use as a Fuel,
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Report No. MP-21727, A Thesis submitted to the
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Administration

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UTILIZATION; COSTS; ECONOMIC ANALYSIS;
HAZARDS; BIBLIOGRAPHIES; ENGINES; GASOLINE

AVAILABILITY: NTIS

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Hahn, U.

Kanner (Leo) Associates

ADDRESS: Redwood City, CA 94063

TITLE: Energy Requirement for Electric Road
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2(5), 207-210

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Administration

KEYWORDS: ELECTRIC VEHICLES; ENERGY FLOW;
PROPULSION; ENERGY DEMAND

AVAILABILITY: NTIS

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Hamilton, W.

General Research Corp.

ADDRESS: Santa Barbara, CA 93105

TITLE: Electric Car Technology for Demonstration
and Development

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Administration, Division of Transportation
Energy Conservation

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DEMONSTRATION; DEVELOPMENT; NICKEL-ZINC
BATTERIES; BATTERIES; LITHIUM-ALUMINUM/METAL
SULFIDE BATTERIES; LEAD-ACID BATTERIES;
PERFORMANCE; GRAPHS (CHARTS); ENERGY
CONSUMPTION

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Hamilton, W.

General Research Corp.

ADDRESS: Santa Barbara, CA 93105

TITLE: Urban Applications and Energy Impacts of
Future Electric Cars

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Administration, Division of Transportation
Energy Conservation

KEYWORDS: URBAN TRANSPORTATION; FORECASTING;

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 POLLUTION; ENERGY CONSUMPTION; PETROLEUM;
 LIFE-CYCLE COST; LOS ANGELES; PHILADELPHIA;
 SAINT LOUIS (MISSOURI)

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Hamilton, W.
 General Research Corp.
 ADDRESS: Santa Barbara, CA
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 TRIPS; SURVEYS; TRAVEL; TABLES (DATA); LOS
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 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.50

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Hamilton, W.; Hagey, G.
 General Research Corp; Energy Research and
 Development Administration
 ADDRESS: GRC, Santa Barbara, CA; ERDA,
 Washington, DC
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 U.S. Cities

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 Union of Producers and Distributors of
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 GRAPHS (CHARTS); NICKEL-ZINC BATTERIES;
 COSTS; TABLES (DATA); AIR POLLUTION; SAINT
 LOUIS (MISSOURI); PHILADELPHIA; LOS ANGELES;
 GOVERNMENT POLICIES; PETROLEUM
 AVAILABILITY: Electric Vehicle Council, 90 Park
 Ave., New York, NY 10016 \$1.50

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Hamilton, W.F.
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 ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105
 TITLE: Applicability of Electric Cars

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 1977, December

SPONSOR: U.S. Dept. of Energy

KEYWORDS: AUTOMOBILE DRIVERS; DISTANCE; ELECTRIC
 VEHICLE RANGE; VEHICLE PARKING; VELOCITY;
 FORECASTING; SURVEYS; VEHICLE TRIPS; URBAN
 AREAS; LOS ANGELES; WASHINGTON DC; TABLES
 (DATA); GRAPHS (CHARTS); HIGHWAYS; PASSENGER
 TRANSPORTATION; BATTERIES; BATTERY CHARGING

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 Hammer, Siler, George Associates
 TITLE: Issues and Actions for Managing Development

Paper presented at the 54th Annual Meeting of the
 Transportation Research Board, published in

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SPONSOR: National Academy of Sciences,
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 KEYWORDS: TRANSPORTATION; PLANNING; LAND USE;
 LOCAL GOVERNMENT; GROWTH; GOVERNMENT POLICIES
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
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 General Motors Corp., Buick Motor Division
 TITLE: An Overall Design Approach to Improving
 Passenger Car Fuel Economy

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 February 27 - March 3, 1978, 21 p.

1978

KEYWORDS: FUEL ECONOMY; AUTOMOTIVE ENGINEERING;
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 REGULATIONS; CONSUMERS; GRAPHS (CHARTS);
 WEIGHT; MATERIALS
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.50

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Harding, G.G.
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 ADDRESS: United Kingdom
 TITLE: High Performance Electric Commercial
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SPONSOR: Society of Automotive Engineers
 KEYWORDS: ELECTRIC VEHICLES; TAXICABS; BUSES
 (VEHICLES); VANS; LEAD-ACID BATTERIES;
 ELECTRIC POWER DEMAND; MARKET; ECONOMICS;
 URBAN TRANSPORTATION
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.75

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Harris, R.G.
 California, University of, School of Business
 Administration
 ADDRESS: Berkeley, CA
 TITLE: Economics of Traffic Density in the Rail
 Freight Industry

Bell Journal of Economics, 8(2), 556-564
 1977, Autumn

SPONSOR: Alfred P. Sloan Foundation
 KEYWORDS: RAIL TRANSPORTATION; ECONOMICS;
 TRAFFIC; CARGO TRANSPORTATION; COSTS;
 ECONOMIC ANALYSIS; GOVERNMENT POLICIES; RATES
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 New York State Dept. of Transportation, Planning
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 ADDRESS: Albany, NY 12232
 TITLE: Ridesharing Behavior: A Review of Recent
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 KEYWORDS: CARPOOLING; AUTOBOMILE DRIVERS;
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 TRANSPORTATION; COMMUTING; INCENTIVES;
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Nartgen, D.T.; Cohen, G.S.
 New York State Dept. of Transportation, Planning
 and Research Bureau, Planning Research Unit
 ADDRESS: Albany, NY 12232
 TITLE: Intercity Passenger Demand Models:
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Report No. DOT/SPD/DPB-50-77-5, Volume 1 of 3,
 70 p.

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 The Conservation Foundation; U.S. Dept. of
 Commerce, Bureau of Economic Analysis
 ADDRESS: CP, 1717 Massachusetts Ave. NW,
 Washington, DC 20036; USDOC, Washington DC
 TITLE: Energy Conservation Strategies

An Issue Report, 50 p.

1976

KEYWORDS: ENERGY CONSERVATION; GOVERNMENT
 POLICIES; PRICES; RATIONING; ALLOCATIONS;
 REGULATIONS; INCENTIVES; CONSUMERS;
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 AUTOMOBILES; FUEL ECONOMY; STANDARDS;
 BUILDINGS; THERMAL INSULATION; RETROFITTING;
 PUBLIC TRANSPORTATION

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Neck, R.M.; Chang, M.; Hess, H.; Carrubba, R.
 Engelhard Industries, a Division of Engelhard
 Minerals & Chemicals Corp.
 ADDRESS: Menlo Park, Edison, N' 08817
 TITLE: Durability Testing at One Atmosphere of
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SPONSOR: Energy Research and Development
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 EMISSIONS; LIFE (DURABILITY); TABLES (DATA);
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 AVAILABILITY: NTIS

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Neft, R.C.; Borden, C.S.
 Jet Propulsion Laboratory

ADDRESS: 4800 Oak Grove Drive, Pasadena, CA
 TITLE: Costs and Energy Efficiency of a Dual-Mode
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SPONSOR: U.S. Dept. of Transportation, Urban Mass
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 Research and Development
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 TRANSPORTATION; PROPULSION; SYSTEMS ANALYSIS;
 ELECTRIC VEHICLES; LIFE-CYCLE COST;
 COMPARATIVE EVALUATIONS; OWNERS; HYBRID
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 AVAILABILITY: NTIS

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Heggie, I.G. (ed.)

TITLE: Modal Choice and the Value of Travel Time

198 p.

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KEYWORDS: TABLES (DATA); GRAPHS (CHARTS);
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 AVAILABILITY: Oxford University Press, Ely House,
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 ADDRESS: Menlo Park, CA 94025
 TITLE: Energy Study of Automated Guideway Transit
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Final Report, 100 p.

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SPONSOR: Energy Research and Development
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 KEYWORDS: ENERGY DEMAND; AIRPORTS; TABLES (DATA);
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 ANALYSIS; ELECTRIC RAIL SYSTEMS; AUTOMATED
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 TITLE: Energy Study of Rail Passenger
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SPONSOR: Energy Research and Development
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 DEMAND; RAIL TRANSPORTATION; REGIONAL
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 REVENUE; HISTORY; EQUIPMENT; SERVICES; ENERGY
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Hensher, D.A.
 Melbourne, University of; Australia Commonwealth
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 ADDRESS: Melbourne, Australia
 TITLE: Review of Studies Leading to Existing
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 587, 30-41
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 SPONSOR: National Academy of Sciences,
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 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.40 for Transportation Research Record 587

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 Gibbs, A.R.
 California Institute of Technology
 ADDRESS: Pasadena, CA 91109
 TITLE: Caltech Seminar Series on Energy
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 TITLE: Planning for the Automobile in the SCAG
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 Highway Administration
 KEYWORDS: PLANNING; AUTOMOBILES; AUTOMOTIVE
 EMISSIONS; FUEL CONSUMPTION; CALIFORNIA;
 INSPECTION; MAINTENANCE; STANDARDS; FUEL
 ECONOMY; GASOLINE; ALLOCATIONS; RATIONING;
 PRICES; TAXES; VEHICLE PARKING; VEHICLE
 REGISTRATIONS; TRAFFIC CONTROL; ENERGY
 CONSERVATION; GOVERNMENT POLICIES; SPEED
 LIMITS; TABLES (DATA); FORECASTING; STATE
 GOVERNMENT
 AVAILABILITY: NTIS

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 Hill, S.H.
 Teledyne Continental Motors, General Products
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 ADDRESS: 76 Getty Street, Muskegon, MI 49442
 TITLE: Automotive Diesel Technology Program:
 Final Report, Period June 1975-April 1977

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 KEYWORDS: AUTOMOBILES; DIESEL ENGINES;
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 DESIGN; AUTOMOTIVE EMISSIONS; SIMULATION;
 EXHAUST RECIRCULATION SYSTEMS
 AVAILABILITY: GPO

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 Hill, S.H.; Dodd, J.L.
 Teledyne Continental Motors, General Products
 Division

ADDRESS: Warren, MI 48093
 TITLE: A Low NO(x) Lightweight Car Diesel Engine
 Paper No. 770430 presented at the International
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 Exposition, Cobo Hall, Detroit, Michigan,
 February 28-March 4, 1977, 28 p.
 1977
 SPONSOR: Energy Research and Development
 Administration; Society of Automotive
 Engineers
 KEYWORDS: AUTOMOTIVE EMISSIONS; DIESEL ENGINES;
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 ECONOMY; DESIGN; TESTING; GRAPHS (CHARTS);
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 AVAILABILITY: Society of Automotive Engineers,
 400 Commonwealth Avenue, Warrendale, PA 15096

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 Hills, F.J.; Schleyerbach, C.G.
 Mobil Research and Development Corp.; Mobil Oil
 A.G.
 TITLE: Diesel Fuel Properties and Engine
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Paper No. 770316, presented at the Society of
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1977
 SPONSOR: Society of Automotive Engineers
 KEYWORDS: DIESEL FUELS; PERFORMANCE; TESTING;
 TABLES (DATA); AUTOMOTIVE EMISSIONS; EUROPE;
 FUEL CONSUMPTION; PETROLEUM REFINING;
 AUTOMOBILES
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096

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 Hinton, H.G.; Forrest, L.; Duclos, D.P.; Davey,
 T.H.; Sheahan, R.R.; Swan, K.B.
 Aerospace Corp., Environment and Energy
 Conservation Division
 ADDRESS: El Segundo, CA 90245
 TITLE: Survey of Driver Aid Devices for Improved
 Fuel Economy

Report No. PB-264162, DOT-TSC-OST-76-45, 164 p.
 1976, November
 SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary, Office of the Assistant
 Secretary for Systems Development and
 Technology, Office of Systems Engineering;
 U.S. Dept. of Transportation, Transportation
 Systems Center
 KEYWORDS: FUEL ECONOMY; FLOWMETERS;
 ACCELEROMETERS; PYROMETERS; ENERGY
 CONSERVATION; TABLES (DATA); GRAPHS (CHARTS);
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 BEHAVIOR; EQUIPMENT; VELOCITY; ACCELERATION
 AVAILABILITY: NTIS

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 ADDRESS: Columbia, MD 21045
 TITLE: Evaluation Methodology for Near Term
 Devices and Strategies to Reduce Highway
 Vehicle Use. Volume I: Technical Report.
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 SPONSOR: Energy Research and Development
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 KEYWORDS: HIGHWAY TRANSPORTATION; ENERGY

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 FEASIBILITY; RETROFITTING; COMPARATIVE
 EVALUATIONS; TRUCKS; AUTOMOBILES; MARKET;
 PASSENGER TRANSPORTATION; CARGO
 TRANSPORTATION; BUSES (VEHICLES); MODELS;
 MOBILITY; ENVIRONMENTAL IMPACT; ECONOMICS;
 GRAPHS (CHARTS); EQUIPMENT; GOVERNMENT
 POLICIES; RETROFIT DEVICES

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Hoch, I.

Resources for the Future Inc.

ADDRESS: 1755 Massachusetts Avenue NW,
 Washington, DC 20036

TITLE: Energy Use in the United States by State
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1978, April

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 POWER; COAL; HYDROELECTRIC POWER; NUCLEAR
 POWER; COMPARATIVE EVALUATIONS; REGIONAL
 ANALYSIS; RESIDENTIAL SECTOR; INDUSTRIAL
 SECTOR; COMMERCIAL SECTOR; GOVERNMENT
 POLICIES; GASOLINE; FUEL OIL

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Hoey, W.P.; Levinson, H.S.

Smith (Wilbur) and Associates

ADDRESS: Los Angeles, CA

TITLE: Attitude Surveys, Transit Planning, and
 Automobile-Use Constraints

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 625, 1-4

1977

SPONSOR: National Academy of Sciences,
 Transportation Research Board

KEYWORDS: ATTITUDES; PASSENGER TRANSPORTATION;
 PLANNING; AUTOMOBILES; SURVEYS; AUTOMOBILE
 DRIVERS; MASS TRANSPORTATION; TRAVEL TIME;
 BUSES (VEHICLES); QUESTIONNAIRES; VEHICLE
 PARKING; COSTS

AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$3.20 for Transportation Research Record 625

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Hofbauer, P.; Wiedemann, B.

Volkswagenwerk AG

ADDRESS: Germany

TITLE: Advanced Automotive Power Systems. Part
 1: Morphological System and Systems Analysis

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 GAS TURBINE ENGINES; COMPARATIVE EVALUATIONS;
 AUTOMOTIVE EMISSIONS; FUEL ECONOMY; DESIGN;
 DIAGRAMS; GRAPHS (CHARTS)

AVAILABILITY: Society of Automotive Engineers,
 400 Commonwealth Drive, Warrendale, PA 15096

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Holmes, E.H.

International Road Federation

TITLE: Coordination of Urban Development and
 Planning and Developing Transportation
 Facilities: What Can We Learn from Abroad?

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 Transportation Research Board, published in
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SPONSOR: National Academy of Sciences,
 Transportation Research Board

KEYWORDS: TRANSPORTATION; PLANNING; LEGAL
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AVAILABILITY: National Academy of Sciences,
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 Constitution Ave. NW, Washington, DC 20418
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Hopkins, J.B.

U.S. Dept. of Transportation, Transportation
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ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Railroads and the Environment: Estimation
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 Volume I: Analytical Model

Report No. PB-244150, FRA-ORD-75-74.I

1975, May

SPONSOR: U.S. Dept. of Transportation, Federal
 Railroad Administration, Office of Research
 and Development

KEYWORDS: FUEL CONSUMPTION; RAIL TRANSPORTATION;
 MODELS; FORECASTING; LOAD FACTOR; WEIGHT;
 HIGHWAY TRANSPORTATION; CARGO TRANSPORTATION;
 PASSENGER TRANSPORTATION; GRAPHS (CHARTS);
 INTERCITY TRANSPORTATION; VELOCITY

AVAILABILITY: NTIS

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Hopkins, J.B.; Newell, A.T.

U.S. Dept. of Transportation, Transportation
 Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Railroads and the Environment: Estimation
 of Fuel Consumption in Rail Transportation.
 Volume II - Freight Service Measurements

Report No. PB-273277, FRA-ORD-75-74.II,

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1977, September

SPONSOR: U.S. Dept. of Transportation, Federal
 Railroad Administration, Office of Research
 and Development

KEYWORDS: RAILROADS; FUEL CONSUMPTION; RAIL
 TRANSPORTATION; CARGO TRANSPORTATION;
 VELOCITY; WEIGHT; TABLES (DATA)

AVAILABILITY: NTIS

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Horowitz, A.D.

General Motors Corp., Research Laboratories,
 Transportation and Urban Analysis Dept.

ADDRESS: Warren, MI 48090

TITLE: An Attitudinal Model of Carpooling Behavior

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 American Psychological Association, Chicago,
 Illinois, August 31, 1975, 19 p.

1975, August 31

KEYWORDS: ATTITUDES; MODELS; CARPOOLING;
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 QUESTIONNAIRES

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Norowitz, A.D.; Sheth, J.W.
General Motors Corp., Research Laboratories,
Transportation and Urban Analysis Dept.;
Illinois, University of, Dept. of Business
Administration
ADDRESS: GMC, Warren, MI 48090; UI, Urbana, IL
61801
TITLE: Ridesharing to Work: A Psychosocial
Analysis

Research Publication No. GNR-2216(Revised), paper
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1977, January 11

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MODELS; CHICAGO; BEHAVIOR; ATTITUDES; TRAVEL
TIME; QUESTIONNAIRES; DEMOGRAPHY; TESTING;
MARKETING; SURVEYS; TABLES (DATA); GRAPHS
(CHARTS); ILLINOIS

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Norowitz, J.
U.S. Environmental Protection Agency
ADDRESS: Washington, DC
TITLE: An Aggregate Supply Model for Urban Bus
Transit (Abridgment)

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626, 12-15

1977

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: BUSES (VEHICLES); URBAN TRANSPORTATION;
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LOS ANGELES

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 626

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House, P.W.; Jones, D.W.; Bernier, J.;
Bevilacqua, O.M.; Bruck, H.W.; Barakant,
W.E.; Chan, V.K.; Howland, M.I.; Seminoff,
S.A.; Zahradnik, A.R.
California, University of, Institute of
Transportation Studies
ADDRESS: Berkeley, CA
TITLE: Getting It Off the Shelf: A Methodology
for Implementing Federal Research

Special Studies in Public Systems Management, 282
P.

1977

KEYWORDS: GOVERNMENT POLICIES; RESEARCH; FUNDING;
TECHNOLOGY ASSESSMENT; DEVELOPMENT; TESTING;
COMMERCIALIZATION; INSTITUTIONAL FACTORS;
COMMERCIAL SECTOR

AVAILABILITY: Westview Press, Boulder, CO

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House, P.W.; Jones, D.W.; Bevilacqua, O.M.
California, University of, Institute of
Transportation Studies
ADDRESS: Berkeley, CA
TITLE: Making Federal R and D Useful: A Case
Study of the Implementation Process

Special Report, Report No. UCB-ITS-SR-77-4, 50 p.
1977, March

SPONSOR: Energy Research and Development
Administration

KEYWORDS: GOVERNMENT POLICIES; RESEARCH;
DEVELOPMENT; INSTITUTIONAL FACTORS; FUNDING;
TECHNOLOGY ASSESSMENT; MARKET

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Howard, E.B.; Barber, B.Y.; Jordan, A.C.;
Seaborn, C.C.
Oak Ridge National Laboratory, Information
Division, Information Center Complex, Energy
Information Center
ADDRESS: Oak Ridge, TN 37830
TITLE: Transportation Energy Conservation Data
Book: A Selected, Annotated Bibliography.
Edition 2

Report No. ORNL/EIS-114 (Part II of ORNL-5320),
272 p.

1977, October

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION; ENERGY
CONSERVATION; AIR TRANSPORTATION; ALTERNATE
FUELS; AUTOMOBILES; BUSES (VEHICLES); CARGO
TRANSPORTATION; PETROLEUM; DEMAND
(ECONOMICS); DIESEL ENGINES; ECONOMICS;
EFFICIENCY; ELECTRIC VEHICLES; ENERGY
CONSUMPTION; ENVIRONMENTAL IMPACT;
FORECASTING; FUEL CONSUMPTION; FUEL ECONOMY;
FUELS; GASOLINE; GOVERNMENT POLICIES;
LEGISLATION; MASS TRANSPORTATION; RAIL
TRANSPORTATION; STATISTICS; TRUCKS; URBAN
TRANSPORTATION; HIGHWAY TRANSPORTATION;
VEHICLES; WATER TRANSPORTATION; ABSTRACTS

AVAILABILITY: NTIS

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Huddleston, R.L.; Kelly, J.J.; Knight, C.E.
Oak Ridge Y-12 Plant
ADDRESS: P.O. Box Y, Oak Ridge, TN 37830
TITLE: Composite Flywheel Development (January 1
- March 31, 1977)

Report No. Y-2087, 24 p.

1977, September 19

SPONSOR: Energy Research and Development
Administration, Office of Conservation,
Division of Energy Storage Systems, Advanced
Physical Methods Branch
KEYWORDS: FLYWHEELS; RESEARCH; TECHNOLOGY;
DESIGN; GRAPHS (CHARTS); TABLES (DATA);
MATERIALS; STRESS ANALYSIS; HYBRID
ELECTRIC-POWERED VEHICLES

AVAILABILITY: NTIS

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Huddleston, R.L.; Kelly, J.J.; Knight, C.E.
Oak Ridge Y-12 Plant
ADDRESS: P.O. Box Y, Oak Ridge, TN 37830
TITLE: Composite Flywheel Development (April 1 -
June 30, 1977)

Report No. Y-2097, 16 p.

1977, October 18

SPONSOR: Energy Research and Development
Administration, Office of Conservation,
Division of Energy Storage Systems, Advanced
Physical Methods Branch
KEYWORDS: FLYWHEELS; RESEARCH; TECHNOLOGY;
DIAGRAMS; GRAPHS (CHARTS); DESIGN; TESTING;
STRESS ANALYSIS

AVAILABILITY: NTIS

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Hunton, W.P.; Sharp, D.P.; Zemotel, L.N.
Pittsburgh, University of, Environmental Systems
Engineering
ADDRESS: Pittsburgh, PA 15260

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TITLE: Projections of Automobile Use and Ownership Based on Lifestyle Factors: First Pass Analyses and Scenarios

Report No. ONWL-Sub-7356-1, 59 p.

1977, July

KEYWORDS: FORECASTING; AUTOMOBILES; OWNERSHIP; LIFE STYLE; POPULATION (STATISTICS); AGE GROUPS; TABLES (DATA); VEHICLE TRIPS; VEHICLE MILES TRAVELED; MODELS

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Hannon, W.P.; Sharp, D.P.; Zemotel, L.M.
Pittsburgh, University of, Environmental Systems Engineering

ADDRESS: Pittsburgh, PA 15260

TITLE: Projections of Automobile Use and Ownership Based on Lifestyle Factors: Scenario Analysis

Report No. ONWL-Sub-7356-1, 59 p.

1977, July

KEYWORDS: AUTOMOBILES; OWNERSHIP; MODELS; FORECASTING; VEHICLE TRIPS; VEHICLE MILES TRAVELED; TABLES (DATA); AGE GROUPS; REGIONAL ANALYSIS; GRAPHS (CHARTS); LIFE STYLE

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Iberall, A.S.; Cardon, S.Z.
General Technical Services Inc.
ADDRESS: 8794 West Chester Pike, Upper Darby, PA 19082

TITLE: Physical Foundations for Socio-Economic Modeling for Transportation Planning. Part I: Interaction Between Urban Centers as a Potential Process

Report No. DOT-TSC-OST-77-37,I, 50 p.

1977, September

SPONSOR: U.S. Dept. of Transportation, Transportation Systems Center, Office of Systems Research and Analysis
KEYWORDS: PHYSICS; STATISTICAL ANALYSIS; MATHEMATICS; POPULATION (STATISTICS); URBAN AREAS; TRANSPORTATION; BOLTZMANN STATISTICS; SYSTEMS ANALYSIS; MODELS; PLANNING
AVAILABILITY: NTIS

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Iberall, A.S.; Cardon, S.Z.
General Technical Services Inc.
ADDRESS: 8794 West Center Pike, Upper Darby, PA 19082

TITLE: Systems Models for Transportation Problems. Part II: The Social Physics for Modern Societies - The Role of the Cities

Report No. DOT-TSC-OST-77-37,II, 170 p.

1977, September

SPONSOR: U.S. Dept. of Transportation, Transportation Systems Center, Office of Systems Research and Analysis
KEYWORDS: POPULATION (STATISTICS); SYSTEMS ANALYSIS; POPULATION DYNAMICS; SOCIO-ECONOMIC FACTORS; URBAN AREAS; HISTORY; TRANSPORTATION; MODELS
AVAILABILITY: NTIS

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Inai, K.
Toyota Motor Co. Ltd.
ADDRESS: Toyota, Japan
TITLE: Development of Electric Vehicles at Toyota

Paper presented at the Fourth International Electric Vehicle Symposium, held in Dusseldorf, Germany, August 31 - September 2, 1976, 17 p.

1976, September

KEYWORDS: DEVELOPMENT; ELECTRIC VEHICLES; TABLES (DATA); GRAPHS (CHARTS); ENERGY CONSUMPTION; LEAD-ACID BATTERIES; AUTOMOBILES; TRUCKS; COMPARATIVE EVALUATIONS; ENERGY CONSERVATION; PERFORMANCE
AVAILABILITY: Electric Vehicle Council, 90 Park Ave., New York, NY 10016 \$1.50

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International Road Federation
ADDRESS: 1023 Washington Building, Washington, DC
TITLE: World Road Statistics: 1970-1974. Edition 1975

Annual publication

1975

KEYWORDS: STATISTICS; ROADS; TABLES (DATA); PRODUCTION; EXPORTS; VEHICLES; INTERNATIONAL TRADE; VEHICLE REGISTRATIONS; IMPORTS; TRAFFIC; AUTOMOTIVE FUELS

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Interstate Commerce Commission
ADDRESS: Washington, DC
TITLE: 91st Annual Report of the Interstate Commerce Commission, Fiscal Year Ending September 30, 1977

Annual Report, 151 p.

1978

KEYWORDS: TRANSPORTATION; REGULATIONS; CONSUMERS; PROTECTION; RAIL TRANSPORTATION; CARGO TRANSPORTATION; PIPELINE TRANSPORTATION; TARIFFS; WATER TRANSPORTATION; LEGISLATION; FINANCIAL DATA; FINANCIAL MANAGEMENT
AVAILABILITY: GPO, Stock No. 026-000-01096-9

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC 20423
TITLE: Freight Commodity Statistics: Motor Carriers of Property, Year Ended December 31, 1974

97 p.

KEYWORDS: COMMODITIES; REGIONAL ANALYSIS; TABLES (DATA); CARGO TRANSPORTATION; REVENUE; TONNAGE; TRUCKS; STATISTICS; WEIGHT
AVAILABILITY: GPO \$1.75, Stock No. 026-000-01054-3, Catalog No. IC 1-MOT22:974

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC
TITLE: Transport Statistics in the United States for the Year Ended December 31, 1975. Part 5: Carriers by Water

Annual report, 59 p.

KEYWORDS: TABLES (DATA); WATERWAY TRANSPORTATION; REVENUE; WATER TRANSPORTATION; CARGO TRANSPORTATION; PASSENGER TRANSPORTATION; FINANCIAL DATA; REGIONAL ANALYSIS; OPERATING COSTS; MARINE TRANSPORTATION; COMMODITIES; TONNAGE
AVAILABILITY: GPO, Stock No. 026-000-0069-1

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC
TITLE: Transport Statistics in the United States
for the Year Ended December 31, 1975. Part
1: Railroads, Their Lessors and Proprietary
Companies, and Electric Railways

Annual report, 186 p.

KEYWORDS: RAIL TRANSPORTATION; RAILROADS;
FINANCIAL DATA; REGIONAL ANALYSIS; INCOME;
OPERATING COSTS; CARGO TRANSPORTATION;
EQUIPMENT; TABLES (DATA); BALANCE SHEETS;
REVENUE; EXPENSES; STATISTICS; PASSENGER
TRANSPORTATION

AVAILABILITY: GPO, Stock No. 026-000-01067-5; See
E-6094 for 1974 Statistics

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC
TITLE: Transport Statistics in the United States
for the Year Ended December 31, 1975. Part
3: Freight Forwarders

11 p.

KEYWORDS: CARGO TRANSPORTATION; FINANCIAL DATA;
REVENUE; STATISTICS; OWNERSHIP; TABLES (DATA)
AVAILABILITY: GPO \$0.40, Stock No.
026-000-01057-8

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC
TITLE: Transport Statistics in the United States
for the Year Ended December 31, 1975. Part
4: Private Car Lines

6 p.

KEYWORDS: STATISTICS; OWNERSHIP; RAIL
TRANSPORTATION; RAILROAD CARS; REFRIGERATION;
FINANCIAL DATA; OPERATION; REVENUE; TABLES
(DATA)

AVAILABILITY: GPO \$0.55, Stock No.
026-000-01052-7

<329>
Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC
TITLE: Transport Statistics in the United States
for the Year Ended December 31, 1975. Part
2: Motor Carriers

24 p.

KEYWORDS: CARGO TRANSPORTATION; STATISTICS;
REVENUE; REGIONAL ANALYSIS; INTERCITY
TRANSPORTATION; FINANCIAL DATA; OPERATION;
TABLES (DATA); INCOME; EQUIPMENT;
TRANSPORTATION

AVAILABILITY: GPO

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC 20423
TITLE: Class I Railroads: Financial and
Operating Statistics for the Twelve Months
Ended December 31, 1975

Semi-Annual publication, Statement No. 100, 19 p.
1977

KEYWORDS: RAILROADS; FINANCIAL DATA; STATISTICS;
TAXES; REVENUE; OPERATING COSTS; RAIL
TRANSPORTATION; INCOME; PASSENGER
TRANSPORTATION; EQUIPMENT; CARGO

TRANSPORTATION; REGIONAL TRANSPORTATION

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Irick, P.E.; Pascal, E.P.
National Academy of Sciences, National Research
Council, Transportation Research Board,
TRISNET Secretariat
ADDRESS: 2101 Constitution Ave., Washington, DC
20590

TITLE: TRISNET: Directory to Transportation
Research Information Resources

Report No. PB-255172, DOT-TST-76-82, 68 p.
1976, May

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Transportation Research Activity
Information Service

KEYWORDS: DIRECTORIES; TRANSPORTATION; RAIL
TRANSPORTATION; HIGHWAY TRANSPORTATION; URBAN
TRANSPORTATION; DATA BASES; PUBLIC
TRANSPORTATION; ENVIRONMENTAL QUALITY;
INFORMATION; INFORMATION SYSTEMS

AVAILABILITY: NTIS

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Irving-Cloud Publishing Co.
ADDRESS: 7300 N. Cicero Ave., Lincolnwood, IL
60466

TITLE: An Analysis of Marketing Trends in the
Automotive Service Industry Through 1975

v.p.

1975, December

KEYWORDS: MARKETING; AUTOMOTIVE INDUSTRY;
SERVICES; TABLES (DATA); STATISTICS;
GASOLINE; MAINTENANCE; SALES; EMPLOYMENT;
FINANCIAL DATA; REPAIR; AUTOMOBILES

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Janicki, E.

TITLE: The Diesels Are Coming

California Highway Patrolman, 41(11), 18, 58
1978, January

KEYWORDS: DIESEL ENGINES; AUTOMOBILES; FUEL
ECONOMY; COMPARATIVE EVALUATIONS; DIAGRAMS;
IGNITION SYSTEMS; COMPRESSION; FUEL INJECTION
SYSTEMS; PRECHAMBER ENGINES; PUBLIC OPINION

<334>

Jelavich, H.S.

Faucett (Jack) Associates Inc.

ADDRESS: 5454 Wisconsin Avenue, Suite 1150, Chevy
Chase, MD 20015

TITLE: A Study of the Determinants of Freight
Modal Choice

Conference paper presented at Transportation
Research Board Meeting Session Number 143,
January 19, 1978, 21 p.

1978

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation

KEYWORDS: CARGO TRANSPORTATION; DECISIONS;
WEIGHT; INPUT-OUTPUT ANALYSIS; COMMODITIES;
FORECASTING; MODELS; RATES (COSTS); DISTANCE;
DETERMINANTS

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Juneja, V.K.; Kelly, W.J.; Valentine, R.W.
General Motors Proving Ground
TITLE: Computer Simulations of Emissions and Fuel Economy

Paper No. 780287, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 20 p.

1978

KEYWORDS: AUTOMOTIVE EMISSIONS; FUEL ECONOMY; COMPUTERIZED SIMULATION; VELOCITY; STANDARDS; AUTOMOBILES; DESIGN; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Kalish, S.J.
Kalish, Wittlinger and Associates Inc.
TITLE: The Potential Market for On-the-Road Electric Vehicles

22 p.

1971, May

SPONSOR: Electric Vehicle Council; Copper Development Association Inc.
KEYWORDS: MARKET; ELECTRIC VEHICLES; PERFORMANCE; QUESTIONNAIRES; TRUCKS; AUTOMOBILES; BUSES (VEHICLES); INTERNAL COMBUSTION ENGINES; COMPARATIVE EVALUATIONS; TABLES (DATA)
AVAILABILITY: Electric Vehicle Council, 90 Park Avenue, New York, NY 10016

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Kaplan, J.A.
U.S. Dept. of Transportation, Federal Highway Administration
ADDRESS: 400 7th St. SW, Washington, DC 20590
TITLE: Characteristics of the Regular Adult Bicycle User

Report No. PB-258399, FHWA-R9-76-7, 136 p.

1975, July

KEYWORDS: BICYCLES; ACCIDENTS; SURVEYS; DEMOGRAPHIC SURVEYS; VEHICLE TRIPS; AGE GROUPS; SEX
AVAILABILITY: NTIS

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Kasama, R.; Naito, S.; Katada, H.; Shibata, T.
Hitachi Ltd., Sawa Works; Hitachi Ltd., Hitachi Laboratory
ADDRESS: Japan
TITLE: The Efficiency Improvement of Electric Vehicles by Regenerative Braking

Paper No. 780291, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 10 p.

1978

KEYWORDS: ELECTRIC VEHICLES; REGENERATIVE BRAKING; DESIGN; EFFICIENCY; ELECTRIC VEHICLE RANGE; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Kearney (A.T.) Inc.
ADDRESS: 100 S. Wacker Drive, Chicago, IL 60606
TITLE: Energy Efficiency Improvement Targets in

the Transportation Equipment Industry (SIC 37). Volume 1

Report No. PB-270068, FEA/D-77/259, v.p.

1976, July 12

SPONSOR: Federal Energy Administration, Office of Industrial Reporting Programs
KEYWORDS: EFFICIENCY; TRANSPORTATION; EQUIPMENT; ENERGY CONSUMPTION; ENERGY CONSERVATION; INDUSTRIAL SECTOR; GOVERNMENT POLICIES; ECONOMICS; TABLES (DATA); FORECASTING; REGIONAL ANALYSIS; STATISTICS; OPERATING COSTS; VEHICLES; AIRCRAFT; BOATS; SHIPS; RAIL TRANSPORTATION; MOTORCYCLES; BICYCLES; RECREATION VEHICLES
AVAILABILITY: NTIS

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Kearney (A.T.) Inc.
ADDRESS: 100 South Wacker Drive, Chicago, IL 60606
TITLE: Urban Goods Movement Demonstration Project Design Phases I and II. Executive Summary

Report No. PB-254854, UTA-IL-06-0030-76-1, 60 p.

1976, May

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration
KEYWORDS: CARGO TRANSPORTATION; AIR POLLUTION; FOISE POLLUTION; ENERGY CONSUMPTION; COSTS; TABLES (DATA); TRANSPORTATION; COMPARATIVE EVALUATIONS; FUEL CONSUMPTION; TRUCKS; TRAFFIC; LAND USE; PASSENGER TRANSPORTATION; URBAN TRANSPORTATION; COMMODITIES
AVAILABILITY: NTIS

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Keck, C.A.; Erlbaum, N.S.; Milic, P.L.; Trentacoste, M.F.
New York State Dept. of Transportation, Planning Division
ADDRESS: Albany, NY 12232
TITLE: Changes in Individual Travel Behavior During the Energy Crisis, 1973-74

Preliminary Research Report 67, 91 p.

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SPONSOR: U.S. Dept. of Transportation
KEYWORDS: ENERGY CONSERVATION; TRAVEL; BEHAVIOR; GASOLINE; CARPOOLING; NEW YORK; URBAN TRANSPORTATION; SHORTAGES; VEHICLE REGISTRATIONS; ATTITUDES; AUTOMOBILE DRIVERS; SURVEYS; QUESTIONNAIRES; RESIDENTIAL SECTOR; TABLES (DATA); FUEL ECONOMY; FUEL CONSUMPTION; PURCHASING; DEMAND (ECONOMICS)

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Keller, J.L.; Wakaguchi, G.M.; Ware, J.C.
Union Oil Co. of California, Research Dept.
ADDRESS: Brea, CA
TITLE: Methanol Fuel Modification for Highway Vehicle Use. Final Report

Report No. HCP/W3683-18, v.p.

1978, July

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: METHANOL; ALTERNATE FUELS; ALCOHOL FUELS; ENGINES; MODIFICATIONS; GASOLINE; PROPERTIES; VEHICLES; UTILIZATION; PERFORMANCE; ENVIRONMENTAL IMPACT; TRANSPORTATION; WATER; TESTING; TABLES (DATA); TOXICITY; SAFETY
AVAILABILITY: NTIS

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Went, P.; Bishop, E.
U.S. Dept. of Transportation, Federal Highway
Administration, Office of Highway Planning,
Planning Services Branch
ADDRESS: Washington, DC 20590
TITLE: National Truck Characteristic Report: 1974

55 p.

1976, April

KEYWORDS: TRUCKS; TABLES (DATA); WEIGHT; REGIONAL
ANALYSIS; ROADS; GRAPHS (CHARTS); RURAL
AREAS; URBAN AREAS; CARGO TRANSPORTATION;
URBAN TRANSPORTATION

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Weyani, B.I.; Putnam, E.S.
Interplan Corp.
ADDRESS: 100 North Hope Ave., Santa Barbara, CA
93110
TITLE: Transportation System Management: State
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INTERPLAN Report No. 7504R, 210 p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration, Office of
Policy and Program Development
KEYWORDS: TRANSPORTATION SYSTEMS; URBAN
TRANSPORTATION; ENERGY CONSERVATION; TRAFFIC;
PEDESTRIANS; BICYCLES; AIR QUALITY; CAPITAL
COSTS; AUTOMOTIVE FLEETS; PERFORMANCE; TABLES
(DATA); REGIONAL ANALYSIS; PASSENGER
TRANSPORTATION; CARPOOLING; BUSES (VEHICLES);
VANPOOLS; BIKEWAYS; PUBLIC TRANSPORTATION;
DIAL-A-RIDE; VEHICLE PARKING; BIBLIOGRAPHIES;
PARATRANSIT; MANAGEMENT

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Kidman, R.W.; Barrett, R.J.; Koenig, D.R.
Los Alamos Scientific Laboratory
ADDRESS: Los Alamos, NM 87545
TITLE: Energy Flow Patterns for 1975

Report No. LA-6770, 72 p.

1977, June

SPONSOR: Energy Research and Development
Administration; Federal Energy Administration
KEYWORDS: SYSTEMS ANALYSIS; ENERGY FLOW; ENERGY
CONSUMPTION; INDUSTRIAL SECTOR; COMMERCIAL
SECTOR; RESIDENTIAL SECTOR; GRAPHS (CHARTS);
PETROLEUM; COAL; HYDROELECTRIC POWER; NUCLEAR
ENERGY; NATURAL GAS; PRODUCTION; ELECTRIC
POWER GENERATION; TRANSPORTATION; REGIONAL
ANALYSIS; DIAGRAMS
AVAILABILITY: NTIS

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King, J.A.
Mathematica Policy Research Inc.
ADDRESS: 2101 L Street NW, Suite 416, Washington,
DC 20061
TITLE: "The Distributional Impact of Energy
Policies: Development and Application of the
Phase I Comprehensive Human Resources Data
System. Task 8, Final Report

Report No. MPR/PR 77-13, v.p.

1977, June 30

SPONSOR: Federal Energy Administration, Office of
Data Services
KEYWORDS: ENERGY POLICY; TABLES (DATA); GASOLINE;
PRICES; THERMAL INSULATION; SOCIO-ECONOMIC
FACTORS; ECONOMIC IMPACT; RESIDENTIAL SECTOR;
ENERGY MODELS; FORECASTING

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Mathematica Policy Research Inc.; Hendrickson
Corp.
ADDRESS: MPRI, 2101 L Street NW, Suite 416,
Washington, DC 20037; HC, 2101 L Street NW,
Suite 414, Washington, DC 20037
TITLE: System Flow Chart. Phase I:
Comprehensive Human Resources Data System

22 p.

1977, June 30

SPONSOR: Federal Energy Administration, Office of
Data Services
KEYWORDS: SYSTEMS ANALYSIS; FLOW CHARTS;
FORECASTING; INFORMATION SYSTEMS; DATA
PROCESSING; ENERGY POLICY

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Kingham, R.I.
National Academy of Sciences, National Research
Council, Transportation Research Board,
National Cooperative Highway Research Program
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Suburban Highways and Roads as Instruments
of Land Use Change

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
Transportation Research Record 565, 53-60
1976

KEYWORDS: LAND USE; HIGHWAYS; SUBURBAN AREAS;
CAPACITY; LEGISLATION; LAND DEVELOPMENT;
UTILIZATION; TRAFFIC CONTROL; GROWTH
AVAILABILITY: \$6.00 for Transportation Research
Record No. 565

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Kirk, R.S.; Barber, K.F.
Mueller Associates Inc.
TITLE: A Pictorial Characterization of Worldwide
Electric and Hybrid Vehicles

Report No. CONS-770373, presented during the
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and Hybrid Vehicle Demonstration Project, 264
p.

1977, August 16

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: PHOTOGRAPHS; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; GERMAN FEDERAL
REPUBLIC; ISRAEL; NETHERLANDS; SWEDEN; UNITED
KINGDOM; FRANCE; ITALY; JAPAN; USA;
MANUFACTURERS; MARKET; RESEARCH; DESIGN;
INTERNATIONAL ANALYSIS
AVAILABILITY: GPO, Stock No. 060-000-00083-2

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Klann, J.L.; Tew, R.C., Jr.
National Aeronautics and Space Administration,
Langley Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Analysis of Regenerated Single-Shaft
Ceramic Gas-Turbine Engines and Resulting
Fuel Economy in a Compact Car

Report No. N77-29607, NASA-TN-X-3531, 23 p.
1977, August

KEYWORDS: GAS TURBINE ENGINES; FUEL ECONOMY;
CERAMIC ENGINES; HIGH TEMPERATURE; AUTOMOTIVE
ENGINES; DESIGN; COMPUTER PROGRAMS;
COMPARATIVE EVALUATIONS; GRAPHS (CHARTS);
AUTOMOBILES

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AVAILABILITY: NTIS

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Klontz, L. (ed.)
Air Transport Association of America
ADDRESS: 1709 New York Avenue NW, Washington, DC
20006
TITLE: Air Transport 1978

Annual report, 35 p.
1978

KEYWORDS: AIR TRANSPORTATION; TRAFFIC; FINANCIAL
DATA; ECONOMIC ANALYSIS; SAFETY; AIRPORTS;
STATISTICS; TABLES (DATA); AIRCRAFT; REVENUE;
OPERATING COSTS; INCOME; PASSENGER
TRANSPORTATION; CARGO TRANSPORTATION;
INTERNATIONAL RELATIONS; ENERGY CONSUMPTION

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Knight, L.W.; Stover, R.B.
General Motors Corp., Design Staff
TITLE: The Free Access Concept--A New Challenge
to Human Factors

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Automotive Engineers Automobile Engineering
Meeting, Dearborn, MI, October 18-22, 1976,
16 p.

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SPONSOR: Society of Automotive Engineers
KEYWORDS: PEDESTRIANS; TRANSPORTATION SYSTEMS;
SURVEYS; HIGHWAY; ELECTRIC VEHICLES; PUBLIC
OPINION; URBAN AREAS; SHOPPING CENTERS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

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Knox, R.
TITLE: Market Objectives for Electric Vehicles

Electrical Review 200(20), 23-25
1977, May 20

KEYWORDS: MARKET; ELECTRIC VEHICLES;
COMMERCIALIZATION; PHOTOGRAPHS; DESIGN;
SAFETY; LEAD-ACID BATTERIES; NICKEL-ZINC
BATTERIES; NICKEL-ZINC BATTERIES; ZINC-CHLORINE
BATTERIES; INDUSTRIES; RESEARCH; DEVELOPMENT;
LITHIUM-TITANIUM BATTERIES; BICYCLES

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Northwestern University, Transportation Center
ADDRESS: Evanston, IL
TITLE: Baseline Energy Consumption Forecasts for
Transportation: A Review and Evaluation

Report No. ANL-76-XX-6, 42 p.
1976, May

SPONSOR: Argonne National Laboratory, Energy and
Environmental Systems Division; Energy
Research and Development Administration
KEYWORDS: FORECASTING; ENERGY CONSUMPTION; ENERGY
CONSERVATION; TRANSPORTATION; PRICES;
AUTOMOBILES; BUSES (VEHICLES); INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
RAIL TRANSPORTATION; GRAPHS (CHARTS)
AVAILABILITY: NTIS

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Edwards and Kelcey Inc.; New Jersey Institute of
Technology
ADDRESS: EK, Newark, NJ; NJIT, Newark, NJ
TITLE: Bus Passenger Service-Time Distributions

Paper published in Transportation Research Record
625, 37-43

1977

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: BUSES (VEHICLES); PASSENGER
TRANSPORTATION; PLANNING; DESIGN; MODELS;
TABLES (DATA); TRAVEL TIME; DELAYS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

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Kraus, E.F.
McDonnell Douglas Corp., Douglas Aircraft Co.
ADDRESS: Long Beach, CA 90846
TITLE: Cost/Benefit Tradeoffs for Reducing the
Energy Consumption of the Commercial Air
Transportation System. Volume I: Technical
Analysis

Report No. N77-23072, NASA CR-137923, NDC J7340,
289 p.
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SPONSOR: National Aeronautics and Space
Administration, Ames Research Center
KEYWORDS: AIR TRANSPORTATION; ENERGY CONSUMPTION;
BENEFIT COST ANALYSIS; TABLES (DATA); GRAPHS
(CHARTS); ENERGY CONSERVATION; FUEL
CONSUMPTION; PASSENGER TRANSPORTATION;
EFFICIENCY; COMPARATIVE EVALUATIONS; COSTS;
DESIGN; AIRCRAFT; TURBOPROPS
AVAILABILITY: NTIS

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Kuhlman, K.R.
U.S. Dept. of Commerce, Domestic and
International Business Administration, Office
of Economic Research
ADDRESS: Room 2039, Washington, DC 20230
TITLE: The Automobile Industry in 1976: An
International Survey

Report No. PB-272284, OER/ER-23, 79 p.
1977, August

KEYWORDS: AUTOMOTIVE INDUSTRY; SURVEYS; CANADA;
JAPAN; FRANCE; UNITED KINGDOM; ITALY; SWEDEN;
GRAPHS (CHARTS); TABLES (DATA); VEHICLE
REGISTRATIONS; AUTOMOBILES; IMPORTS; EXPORTS;
GERMAN FEDERAL REPUBLIC; INTERNATIONAL TRADE
AVAILABILITY: NTIS

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Kulash, D.J.; Hudge, R.R.; Prywes, D.
U.S. Congress, Congressional Budget Office,
Natural Resources and Commerce Division
ADDRESS: Washington, DC
TITLE: Urban Transportation and Energy: The
Potential Savings of Different Modes

Congressional Committee Print, Serial No. 95-8,
100 p.

1977, September

SPONSOR: U.S. Senate, Committee on Environment
and Public Works, Subcommittee on
Transportation
KEYWORDS: URBAN TRANSPORTATION; ENERGY
CONSERVATION; GOVERNMENT POLICIES; MASS
TRANSPORTATION; ENERGY CONSUMPTION; ENERGY

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INTENSITY: AUTOMOBILES; CARPOOLING; VANPOOLS;
DIAL-A-RIDE; RAIL TRANSPORTATION; BUSES
(VEHICLES)

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LaBelle, S.J. (ed.)
Argonne National Laboratory, Energy and
Environmental Systems Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: Transportation Energy Conservation: Tools
to Meet the National Objective

Report No. ANL-76-XX-4, CONF-760226, summary of
meeting held at Argonne National Laboratory,
February 12, 1976, 83 p.

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SPONSOR: Energy Research and Development
Administration

KEYWORDS: ENERGY CONSERVATION; URBAN
TRANSPORTATION; GOVERNMENT POLICIES; ENERGY
POLICY; ENERGY CONSUMPTION; LAND USE;
TRANSPORTATION
AVAILABILITY: NTIS

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Landgrebe, A.A.; Nelson, P.A.
Argonne National Laboratory, Chemical Engineering
Division; Energy Research and Development
Administration, Division of Conservation
Research and Technology
ADDRESS: ANL, 9700 South Cass Avenue, Argonne, IL
60439; ERDA, Washington, DC 20545
TITLE: Battery Research Sponsored by the U.S.
Energy Research and Development Administration

Report No. CONF-760112-1, paper prepared for A
Symposium on United States Lithium Resources
and Requirements by the Year 2000, Lakewood,
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1976

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Administration, Assistant Administrator for
Conservation

KEYWORDS: US ERDA; ENERGY STORAGE; BATTERIES;
ELECTRIC VEHICLES; LITHIUM-ALUMINUM/IRON
SULPHIDE BATTERIES; RESEARCH PROGRAMS;
ELECTRIC UTILITIES; LOAD MANAGEMENT; LITHIUM;
AVAILABILITY
AVAILABILITY: NTIS

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Landman, A.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Methanol as an Automotive Fuel with
Special Emphasis on Methanol-Gasoline Blends

Report No. DOT-TSC-OST-77-31, v.p.

1977, April

SPONSOR: U.S. Dept. of Transportation, Office of
the Assistant Secretary for Systems
Development and Technology, Office of Systems
Engineering

KEYWORDS: METHANOL; AUTOMOTIVE FUELS; GASOLINE;
MIXING; PRODUCTION; COSTS; ALTERNATE FUELS;
RESEARCH
AVAILABILITY: NTIS

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Lang, S.L. (ed.)
National Academy of Sciences, National Research

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Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20418
TITLE: Rail Transit

Transportation Research Record 627, 31 p.
1977

KEYWORDS: RAIL TRANSPORTATION; RAPID TRANSIT
SYSTEMS; LAND USE; TRAFFIC CONTROL; TRANSIT
STATIONS; MODELS; MAINTENANCE

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Avenue NW, Washington, DC 20418
\$2.20

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Lapedes, D.E.; Hinton, M.G.; Meltzer, J.; Iara, T.
Aerospace Corp., Environmental Programs Group
ADDRESS: El Segundo, CA 90245
TITLE: Current Status of Alternative Automotive
Power Systems and Fuels. Volumes 1-4

Report No. EPA-460/3-74-013-a

1974, July

SPONSOR: U.S. Environmental Protection Agency,
Office of Air and Waste Management, Office of
Mobile Source Air Pollution Control,
Alternative Automotive Power Systems Division

KEYWORDS: ALTERNATE FUELS; AUTOMOBILES; ENGINES;
ELECTRIC VEHICLES; RESEARCH; TABLES (DATA);
DIAGRAMS; HISTORY; AUTOMOTIVE FUELS; HYBRID
ELECTRIC-POWERED VEHICLES; GRAPHS (CHARTS);
TRANSPORTATION
AVAILABILITY: NTIS

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Large, D.B.
TITLE: Hidden Waste

An Issue Report, 109 p.

1976

KEYWORDS: ENERGY CONSERVATION; ELECTRIC POWER
GENERATION; ENVIRONMENTAL IMPACT; ENERGY
FLOW; RESIDENTIAL SECTOR; HOUSES; THERMAL
INSULATION; RETROFITTING; TABLES (DATA);
HEATING SYSTEMS; COSTS; SOLAR SPACE HEATING;
AIR CONDITIONING; ENERGY CONSUMPTION;
APPLIANCES; EFFICIENCY; COMMERCIAL BUILDINGS;
RECYCLING; MATERIALS; MANUFACTURING;
PRODUCTION; WASTE MANAGEMENT; BEVERAGES;
TRANSPORTATION; PETROLEUM; CARGO
TRANSPORTATION; PASSENGER TRANSPORTATION;
FOOD INDUSTRY; INDUSTRIAL SECTOR
AVAILABILITY: The Conservation Foundation, 1717
Massachusetts Ave NW, Washington, DC 20036

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National Governors' Association, Center for
Policy Research
ADDRESS: 444 North Capitol Street, Washington, DC
20001
TITLE: Energy Conservation: The State of the
States

Energy Conservation Report No. 2, 30 p.

1978, February

SPONSOR: U.S. Dept. of Energy, Office of
Intergovernmental Affairs

KEYWORDS: ENERGY CONSERVATION; STATE ANALYSIS;
GOVERNMENT POLICIES; STATE GOVERNMENT;
LIGHTING SYSTEMS; FORECASTING; BUILDINGS;
STANDARDS; TABLES (DATA); THERMAL EFFICIENCY;
TRANSPORTATION; RESIDENTIAL SECTOR;
INDUSTRIAL SECTOR; PUBLIC BUILDINGS; BUILDING
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Brookhaven National Laboratory, Dept. of Applied
Science, Energy Policy Analysis Group

ADDRESS: Upton, NY 11973

TITLE: Energy Supply and Demand in the Northeast
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Report No. BNL-20427, 86 p.

1975, September

SPONSOR: Energy Research and Development
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KEYWORDS: ENERGY SOURCES; ENERGY DEMAND;

NORTHEASTERN STATES; REGIONAL ANALYSIS; NEW

ENGLAND; NEW YORK; PENNSYLVANIA; NEW JERSEY;

DELAWARE; MARYLAND; DISTRICT OF COLUMBIA;

TABLES (DATA); ENERGY CONSUMPTION;

RESIDENTIAL SECTOR; COMMERCIAL SECTOR;

INDUSTRIAL SECTOR; TRANSPORTATION; ELECTRIC

POWER; MODELS; CONVERSION; FORECASTING; FUEL

CONSUMPTION; PLANNING; STATE ANALYSIS

AVAILABILITY: NTIS

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Elroy Engineering Pty. Ltd.

ADDRESS: Sydney, Australia

TITLE: The Townable Electric City Transit System

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1976, September

KEYWORDS: URBAN TRANSPORTATION; BUSES (VEHICLES);

COMMUTING; ELECTRIC VEHICLES; PASSENGER

TRANSPORTATION; PERFORMANCE; DIAGRAMS;

BATTERIES; DESIGN; AUSTRALIA

AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Lehmann, E.J.

National Technical Information Service

ADDRESS: 5285 Port Royal Road, Springfield, VA
22161TITLE: Natural Gas: Marine Transportation (A
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Report No. NTIS/PS-77/0603 (supersedes

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1977, July

KEYWORDS: BIBLIOGRAPHIES; NATURAL GAS; MARINE

TRANSPORTATION; PETROLEUM; LIQUEFIED NATURAL

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PIPELINES; CRYOGENICS; HAZARDS; PLANNING;

FISHERIES; POLLUTION; ENVIRONMENTAL IMPACT;

TANKER SHIPS; ABSTRACTS

AVAILABILITY: NTIS

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Leising, C.J.; Purohit, G.P.; DeGrey, S.F.;

Pinegold, J.G.

National Aeronautics and Space Administration,

Jet Propulsion Laboratory

ADDRESS: California Institute of Technology,
Pasadena, CATITLE: Utilization of Waste Heat in Trucks for
Increased Fuel Economy. Final Report

Report No. NCP/N1011-02, 30 p.

1978, June

SPONSOR: U.S. Dept. of Energy, Division of
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KEYWORDS: WASTE HEAT; FUEL ECONOMY; UTILIZATION;

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ENGINES; GAS TURBINE ENGINES; STIRLING

ENGINES; RANKINE CYCLE ENGINES; REGENERATION;

DRIVING CYCLE; ADIABATIC PROCESSES;

RECUOPERATION; TURBOCHARGING;

TURBOCOMPOUNDING; GRAPHS (CHARTS); TABLES

(DATA); DIAGRAMS

AVAILABILITY: GPO, Stock No. 061-000-00111-5

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National Aeronautics and Space Administration,

Langley Research Center

ADDRESS: Langley Station, VA

TITLE: Airframe Technology for Energy Efficient
Transport AircraftPaper No. 760929, presented at the Aerospace
Engineering and Manufacturing Meeting, Town
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29-December 2, 1976, 16 p.

1976

SPONSOR: Society of Automotive Engineers

KEYWORDS: TECHNOLOGY; AIRCRAFT; AERODYNAMICS;

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FLOW; AIRFOILS; COMPOSITE MATERIALS;

DIAGRAMS; GRAPHS (CHARTS); DESIGN; CONTROL

EQUIPMENT; OPERATING COSTS

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

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Lerman, S.R.

Massachusetts Institute of Technology, Dept. of

Civil Engineering

ADDRESS: Cambridge, MA 02139

TITLE: Location, Housing, Auto Ownership and Mode
to Work: A Joint Choice ModelPaper presented at the Fifty-Fifth Annual Meeting
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Washington, DC, 48 p.

1975, August

KEYWORDS: RESIDENTIAL SECTOR; TRANSPORTATION;

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BEHAVIOR; EMPLOYMENT; DECISIONS;

SOCIO-ECONOMIC FACTORS; LAND USE;

AUTOMOBILES; OWNERSHIP; HOUSING; DISTANCE;

GRAPHS (CHARTS); COMMUTING

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ADDRESS: Cambridge, MA 02139

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Residential Location and Related Household
DecisionsPaper presented at the annual North American
Meeting of the Regional Science Association,
November 7-9, 1975, v.p.

1975, November

KEYWORDS: RESIDENTIAL SECTOR; URBAN

TRANSPORTATION; MODELS; SHOPPING; URBAN

AREAS; BEHAVIOR; EMPLOYMENT; DECISIONS;

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OWNERSHIP; HOUSING; GRAPHS (CHARTS); TABLES

(DATA); DISTANCE; COMMUTING; FORECASTING

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Leshner, M.D.; Baisley, W.N.; Leshner, E.

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ADDRESS: 110 Harding Avenue, Bellmawr, NJ 08030

TITLE: A Fuel Vapor Injection/Igniter System.
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1977SPONSOR: Energy Research and Development
AdministrationKEYWORDS: FUEL INJECTION SYSTEMS; FUEL-AIR RATIO;
TESTING; AUTOMOTIVE ENGINES; DESIGN; FUEL
ECONOMY; AUTOMOTIVE EMISSIONS; PERFORMANCE;
INTERNAL COMBUSTION ENGINES; DIAGRAMS

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Levine, C.A.

Dow Chemical Co.

ADDRESS: Walnut Creek, CA

TITLE: Sodium-Sulfur Battery System: Annual
Report, May 19, 1975 - May 19, 1976

Report No. CDO-2565-4, 68 p.

1976, November 1

SPONSOR: Energy Research and Development
Administration, Division of Conservation
Research and TechnologyKEYWORDS: SODIUM-SULFUR BATTERIES; LIFE
(DURABILITY); RESEARCH; TECHNOLOGY;
ELECTROLYTES; ELECTRODES; CATHODES; GRAPHS
(CHARTS); COSTS
AVAILABILITY: NTIS

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Levinsohn, D.H.; McQueen, J.T.

U.S. Dept. of Commerce, National Bureau of
Standards

ADDRESS: Washington, DC 20234

TITLE: A Procedure for Estimating Automobile Fuel
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Report No. COM-75-10057, NBSIR 74-595, 20 p.

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SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation AdministrationKEYWORDS: AUTOMOBILES; FUEL CONSUMPTION; URBAN
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TRAVELED; TRAFFIC; FORECASTING;
CLASSIFICATIONS; WEIGHT; SIZE; AIR
CONDITIONING; TRAFFIC CONTROL; FUEL ECONOMY
AVAILABILITY: NTIS

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ADDRESS: Washington, DC 20540

TITLE: National Energy Transportation. Volume
III: Issues and ProblemsCongressional Committee Print, 95th Congress, 2nd
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SPONSOR: U.S. Senate, Committee on Energy and
Natural Resources; U.S. Senate, Committee on
Commerce, Science, and TransportationKEYWORDS: WEATHER; HAZARDS; LIQUEFIED NATURAL
GAS; INTERNATIONAL RELATIONS; REGIONAL
ANALYSIS; FUELS; RAIL TRANSPORTATION; ENERGY
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TRANSPORTATION; COAL; PETROLEUM; NATURAL GAS;
TRUCKS; CARGO TRANSPORTATION; HIGHWAY
TRANSPORTATION; NUCLEAR FUELS; WATER
TRANSPORTATION; ALASKA; IMPORTS; TANKER
SHIPS; SAFETY; TRANSPORTATION; FUEL
EFFICIENCY; STANDARDS; RATES (COSTS);
REGULATIONS

AVAILABILITY: GPO, Stock No. 052-070-04469-1

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Voorhees (Alan M.) and Associates Inc.

ADDRESS: McLean, VA

TITLE: Travelers' Attitudes and Energy
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KEYWORDS: TRAVEL; ATTITUDES; ENERGY CONSERVATION;
BEHAVIOR; PLANNING; FORECASTING; AUTOMOBILE
DRIVERS; AUTOMOTIVE FUELS; PRICES;
AVAILABILITY; SOCIO-ECONOMIC FACTORS; FUEL
ECONOMY; VEHICLE TRIPS; ENERGY SHORTAGES;
GASOLINE; URBAN TRANSPORTATION; SURVEYS;
PUBLIC OPINION; AUTOMOBILES; OWNERSHIP;
COMPUTING

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Rath & Strong Inc.

ADDRESS: 21 Wrothen Road, Lexington, MA 02173

TITLE: Automotive Data Base for Manufacturing
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398 p.

1976, June 1

SPONSOR: U.S. Dept. of Transportation,
Transportation Systems CenterKEYWORDS: AUTOMOTIVE INDUSTRY; TABLES (DATA);
GRAPHS (CHARTS); DATA BASES; COSTS;
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COMPARATIVE EVALUATIONS; MANUFACTURING;
MANUFACTURERS; ENGINES; AUTOMOBILES;
VEHICLES; FUEL ECONOMY; TRUCKS; EQUIPMENT

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ADDRESS: 53 Hamilton Place, Tenafly, NJ 07670

TITLE: Projection of Light Truck Population to
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SPONSOR: Oak Ridge National Laboratory, Energy
Division, Regional and Urban Studies Section;
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Transportation Energy ConservationKEYWORDS: TRUCKS; INVENTORIES; FORECASTING;
OWNERSHIP; GROWTH; HIGHWAY TRANSPORTATION;
UTILIZATION; VEHICLE REGISTRATIONS;
SOCIO-ECONOMIC FACTORS; VANS
AVAILABILITY: NTIS

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Lippmann, S.A.; Oblizajek, K.L.; Wetters, J.J.

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TITLE: Sources of Rolling Resistance in Radial
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February 27 - March 3, 1978, 16 p.

1978

KEYWORDS: TIRES; FRICTION; WEAR; TESTING; HEAT;
GRAPHS (CHARTS); DESIGNAVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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ADDRESS: 476 Dunn Circle, Sparks, NV 89431

TITLE: Evaluation of Selected Drive Components

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Final Report. Phase I

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Administration, San Francisco Operations
Office; U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: FLYWHEELS; ENERGY STORAGE; DIAGRAMS;
GRAPHS (CHARTS); ELECTRIC VEHICLES; TESTING;
MODELS; MOTORS; BEARINGS; SHAFTS; SEALS
AVAILABILITY: NTIS

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Lowcutoff, W.V.
Battelle Pacific Northwest Laboratories
ADDRESS: Richland, WA 99352
TITLE: Flywheel/Heat Engine Power for an
Energy-Economic Personal Vehicle

Report No. BNWL-2006, 48 p.
1976, March

SPONSOR: Energy Research and Development
Administration
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FUEL CONSUMPTION; TABLES (DATA); FUEL
ECONOMY; DESIGN
AVAILABILITY: NTIS

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Lutin, J.H.
Princeton University, Dept. of Civil Engineering
ADDRESS: Princeton, NJ
TITLE: Energy Savings for Work Trips: Analysis
of Alternative Commuting Patterns for New
Jersey

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation and
Demand," Transportation Research Record 561,
23-36

1976

KEYWORDS: ENERGY CONSERVATION; COMMUTING; NEW
JERSEY; MAPS; COMPARATIVE EVALUATIONS; ENERGY
CONSUMPTION; GOVERNMENT POLICIES;
AUTOMOBILES; PUBLIC TRANSPORTATION; PLANNING;
AUTOMOBILE OCCUPANCY; MODELS; CARPOOLING;
EFFICIENCY
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

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Rao, D.J.; Wang, G.H.; Meltzer, N.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Forecasting Models for Air Freight Demand
and Projection of Cargo Activity at U.S. Air
Hubs

Report No. FAA-AVP-77-2, 175 p.
1977, January

SPONSOR: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy
KEYWORDS: FORECASTING; MODELS; CARGO
TRANSPORTATION; AVIATION; AIRPORTS;
ECONOMETRIC MODELS; PASSENGER EMPLACEMENTS;
TABLES (DATA); PASSENGER TRANSPORTATION;
GRAPHS (CHARTS); INTERNATIONAL TRAVEL; DEMAND
(ECONOMICS)
AVAILABILITY: NTIS

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Nak, K.K.; Jones, P.S.
Georgia Institute of Technology
TITLE: Priority Analysis Procedure for Ranking
Highway Improvement Projects

Report presented at the 54th Annual Meeting of
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in Transportation Research Record 585, 35-48
1976

KEYWORDS: HIGHWAYS; CONSTRUCTION; PLANNING; STATE
GOVERNMENT; QUESTIONNAIRES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.60 for Transportation Research Record 585

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Nalliaris, A.C.; Hsia, R.; Gould, H.H.
U.S. Dept. of Transportation
ADDRESS: Washington, DC
TITLE: Concise Description of Auto Fuel Economy
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Paper No. 760045 presented at the Automotive
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Michigan, February 23-27, 1976, 13 p.

1976

SPONSOR: Society of Automotive Engineers
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TABLES (DATA); GRAPHS (CHARTS); AUTOMOBILES;
TRUCKS; PERFORMANCE; ACCELERATION
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.75

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Washington, University of, School of Law
ADDRESS: Seattle, WA 98105
TITLE: New Frontiers for Land Development Controls

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
Transportation Research Record 565, 6-11

1976

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: LAND DEVELOPMENT; POLLUTION
REGULATIONS; TRANSPORTATION SYSTEMS; AIR
POLLUTION; GOVERNMENT POLICIES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
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Narcus, A.
Mechanical Technology Inc.
ADDRESS: 968 Albany-Shaker Road, Latham, NY
TITLE: An Advanced Electric Motor Transmission
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Technical Report

Report No. COO/2835-3, v.p.
1977, November

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: TECHNOLOGY ASSESSMENT; EFFICIENCY;
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MODELS; TABLES (DATA); TRANSPORTATION; GRAPHS
(CHARTS); TESTING
AVAILABILITY: NTIS

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Marcus, A.; Pinkus, O.
Mechanical Technology Inc.
ADDRESS: Latham, NY
TITLE: Characterization Stud. of an Electric
Motor-Transmission System for Electric
Vehicles: Technical Report

Report No. COO/2835-2, v.p.

1977, September

SPONSOR: U.S. Dept. of Energy, Division of

Transportation Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;

BATTERIES; TECHNOLOGY; TESTING;

SPECIFICATIONS; ELECTRIC MOTORS; EFFICIENCY;

AUTOMOTIVE ENGINEERING; COST ESTIMATES;

GRAPHS (CHARTS); TABLES (DATA)

AVAILABILITY: NTIS

Characteristics of the 1975 Ford 140-CID
Automotive Engine--Experimental Data

Report No. PB-261771, DOT-TSC-OST-76-43, 40 p.
1976, November

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering;
U.S. Dept. of Transportation, Transportation
Systems Center, Power and Propulsion Branch
KEYWORDS: FUEL CONSUMPTION; AUTOMOTIVE EMISSIONS;
INTERNAL COMBUSTION ENGINES; PERFORMANCE;
HYDROCARBONS; CARBON MONOXIDE; NITROGEN
OXIDES; TESTING; GRAPHS (CHARTS); TABLES
(DATA)

AVAILABILITY: NTIS

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Harek, C.; Jones, T.R.
Vulcan Materials Co.
TITLE: Will There Be a Materials Crisis?

Paper published in Transportation Research Board
Special Report 166, 18-28

1976

KEYWORDS: CONSTRUCTION; MATERIALS;

TRANSPORTATION; MINERALS; RESERVES;

PRODUCTION; TABLES (DATA); GRAPHS (CHARTS)

AVAILABILITY: National Academy of Sciences,
National Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 20418 \$6.00 for TRB Special
Report 166

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Harek, Marketing Committee
ADDRESS: 401 W. Michigan Ave., Chicago, IL 60611
TITLE: State Boat Registration 1967 - 1975

25 p.

KEYWORDS: BOATS; VEHICLE REGISTRATIONS;
MATERIALS; TABLES (DATA); SIZE

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Marshall, W.F.; Stamper, R.R.
Energy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: P.O. Box 1398, Bartlesville, OK 74003
TITLE: Fuel Consumption, Emissions, and Power
Characteristics of the 1975 Datsun 119-CID
Automotive Engine--Experimental Data

Report No. PB-261308, DOT-TSC-OST-76-42, 40 p.
1976, November

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering;
U.S. Dept. of Transportation, Transportation
Systems Center, Power and Propulsion Branch

KEYWORDS: FUEL CONSUMPTION; AUTOMOTIVE EMISSIONS;
INTERNAL COMBUSTION ENGINES; PERFORMANCE;
TESTING; CARBON MONOXIDE; NITROGEN OXIDES;
HYDROCARBONS; GRAPHS (CHARTS); TABLES (DATA)

AVAILABILITY: NTIS

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Marshall, W.F.; Stamper, R.R.
Energy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: P.O. Box 1398, Bartlesville, OK 74003
TITLE: Fuel Consumption, Emissions, and Power

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Martin, W.F. (ed.)
Massachusetts Institute of Technology, Workshop
on Alternative Energy Strategies (WAES)
ADDRESS: Cambridge, MA 02139
TITLE: Energy Supply to the Year 2000: Global
and National Studies

Second Technical Report of the Workshop on
Alternative Energy Strategies (WAES), 422 p.
1977

SPONSOR: National Science Foundation

KEYWORDS: ENERGY SUPPLIES; FORECASTING;
INTERNATIONAL ANALYSIS; COAL; RESERVES;
ENERGY DEMAND; NATURAL GAS; PRODUCTION;
ENERGY CONSUMPTION; NUCLEAR ENERGY; FUELS;
FOSSIL FUELS; UNCONVENTIONAL ENERGY SOURCES;
PETROLEUM; INTERNATIONAL TRADE; GROWTH;
CANADA; DENMARK; FINLAND; FRANCE; GERMANY
FEDERAL REPUBLIC; ITALY; JAPAN; MEXICO;
NETHERLANDS; NORWAY; SWEDEN; UNITED KINGDOM;
UNITED STATES; OPEC; COSTS; TABLES (DATA);
EUROPE; GOVERNMENT POLICIES; PRICES

AVAILABILITY: MIT Press, Cambridge, MA 02139
\$30.00

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Martini, W.R.
Washington, University of, Joint Center for
Graduate Study
ADDRESS: 100 Sprout Rd., Richland, WA 99352
TITLE: Stirling Engine Design Manual

Final Report, Report No. DOE/NASA/3152-78/1, NASA
CR-135382, 370 p.

1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration, Lewis
Research Center

KEYWORDS: STIRLING ENGINES; DESIGN; MANUALS;
BIBLIOGRAPHIES; PERFORMANCE; OPTIMIZATION;
SIMULATION; MODELS; DIAGRAMS; RESEARCH

AVAILABILITY: NTIS

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Mason, W.T., Jr.; Bobbe, P.S.
General Motors Corp., Research Laboratories,
Fluid Dynamics Research Dept.
ADDRESS: Warren, MI 48090
TITLE: The Drag Related Flow Field
Characteristics of Trucks and Buses

Research Publication GHR-2257, presented at 1976
GHR Symposium on Aerodynamic Drag Mechanisms
of Bluff Bodies and Road Vehicles, September
27, 1976, 64 p.

1977, August

KEYWORDS: TRUCKS; BUSES (VEHICLES); AERODYNAMICS;
DESIGN; SIZE; DRAG; TRAILERS; DIAGRAMS;

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Maximina, D.E. (compiler); Mobley, E.R. (ed.)
General Motors Corp., Research Laboratories,
Library, System on Automotive Safety
Information
ADDRESS: Warren, MI 48090
TITLE: Electric Vehicles, 1890-1966: A
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Report No. GHR-2425, SASI 77-521, v.p.
1977, May 13
KEYWORDS: ELECTRIC VEHICLES; BIBLIOGRAPHIES;
HISTORY; AUTOMOBILES; BUSES (VEHICLES);
TAXICABS; TRUCKS; EQUIPMENT; BATTERIES

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McCarthy, R.P.; Morrison, P.A.
Rand Corp.
ADDRESS: 1700 Main Street, Santa Monica, CA 90406
TITLE: The Changing Demographic and Economic
Structure of Nonmetropolitan Areas in the
1970's

Report No. P-6062, earlier version given at
Annual Meeting of Population Association of
America, April, 1977, St. Louis, Missouri, 51
p.

1978, January
KEYWORDS: POPULATION GROWTH; DEMOGRAPHY; URBAN
DEVELOPMENT; RURAL AREAS; RECREATION; FAMILY
LIFE; MANUFACTURING; EMPLOYMENT; REGIONAL
ANALYSIS; POPULATION MIGRATION; STATE
GOVERNMENT; TABLES (DATA); ECONOMIC
CONDITIONS; INCOME; MAPS; TRANSPORTATION;
COMMUTING; GRAPHS (CHARTS); LIFE STYLE;
SOCIO-ECONOMIC FACTORS

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McGillivray, R.G.
Urban Institute
ADDRESS: 2100 M Street NW, Washington, DC 20037
TITLE: Gasoline Use by Automobiles

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
Transportation Research Record 561, entitled
"Transportation Energy Conservation and
Demand," 45-56

1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: GASOLINE; CONSUMPTION; AUTOMOBILES;
TRANSPORTATION; FUEL CONSUMPTION; COSTS;
TABLES (DATA); FORECASTING; DEMAND
(ECONOMICS); MATHEMATICAL MODELS; PASSENGER
TRANSPORTATION; OWNERS; MARKET; PRICES;
ELASTICITY (ECONOMICS)

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McGraw-Hill Publications Co., Research Division
ADDRESS: 1221 Avenue of the Americas, New York,
NY 10020
TITLE: Fleet Owner Fuels and Lubricants Survey

1978, February
SPONSOR: McGraw-Hill Publications, Fleet Owner
KEYWORDS: SURVEYS; MOTOR VEHICLES; LUBRICANTS;
DIESEL FUELS; PURCHASES; QUESTIONNAIRES;
MAINTENANCE; FUEL CONSUMPTION; TRUCKS; TABLES
(DATA); GASOLINE; FUEL STORAGE
AVAILABILITY: \$25.00

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McKetta, J.
Texas, University of
ADDRESS: Austin, TX
TITLE: The Energy Crisis: Fact or Fiction

Paper published in Transportation Research Board
Special Report 166, 5-9

1976
KEYWORDS: ENERGY SHORTAGES; IMPORTS; ENERGY
CONSUMPTION; PRODUCTION; PETROLEUM; NATURAL
GAS; COAL; ENERGY DEMAND; RESERVES; ENERGY
SOURCES; GRAPHS (CHARTS)
AVAILABILITY: National Academy of Sciences,
National Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 20548 \$6.00 for TRB Special
Report 166

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McLean, A.F.; Baker, R.R.
Ford Motor Co.
ADDRESS: Dearborn, MI 48121
TITLE: Brittle Materials Design, High Temperature
Gas Turbine. Volume 2: Ceramic Turbine
Rotor Technology

Report No. AMRC TR 78-14, DA-OD 4733, 12th
Interim Report for the Period January -
September 1977, 93 p.

1978, March
SPONSOR: U.S. Dept. of Defense, Army Materials
and Mechanics Research Center; U.S. Dept. of
Energy, Division of Transportation Energy
Conservation

KEYWORDS: MATERIALS; DESIGN; GAS TURBINES;
CERAMICS; ROTORS; TECHNOLOGY; HIGH
TEMPERATURE; BRITTLENESS; FABRICATION;
SILICON NITRIDES; TESTING; COMPUTER PROGRAMS;
TABLES (DATA); GAS TURBINE ENGINES; SILICON
CARBIDES; MECHANICAL PROPERTIES; PHOTOGRAPHS;
DIAGRAMS
AVAILABILITY: NTIS

<403>
McNutt, R.; Pirkey, D.; Dulla, R.
U.S. Dept. of Energy; Energy and Environmental
Analysis Inc.
TITLE: Passenger Car Classification Using
Interior Volume: A 1978 Up-Date

Paper No. 780133, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 24 p.

1978
KEYWORDS: AUTOMOBILES; CLASSIFICATIONS; VOLUME;
SIZE; WEIGHT; FUEL ECONOMY; DESIGN; PASSENGER
TRANSPORTATION; TABLES (DATA)
AVAILABILITY: Society of Automotive Engineers
Inc, 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<404>
McNutt, R.; Pirkey, D.; Dulla, R.; Miller, C.
U.S. Dept. of Energy; Energy and Environmental
Analysis Inc.
TITLE: A Comparison of Fuel Economy Results from
EPA Tests and Actual In-Use Experience,
1974-1977 Model Year Cars

Paper No. 780037, presented at the Society of
Automotive Engineers' Congress and

<404> CONT.

Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 44 p.

1978

KEYWORDS: FUEL ECONOMY; AUTOMOBILES; TESTING;
COMPARATIVE EVALUATIONS; ENVIRONMENTAL
PROTECTION AGENCY; US DOE; HILBAGE;
OPERATION; DRIVING CYCLE; DATA ACQUISITION;
MANUFACTURERS; CLASSIFICATIONS; GRAPHS
(CHARTS)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<405>

McNutt, R.D.; Pirkey, D.; Dulla, R.
Federal Energy Administration
ADDRESS: Washington, DC

TITLE: Development of a System of Comparable Car
Classes for Fuel Economy Labeling

Paper No. 760794, paper presented at the Society
of Automotive Engineers Automobile
Engineering Meeting, Dearborn, Michigan,
October 18-22, 1976, 38 p.

1976

SPONSOR: Society of Automotive Engineers
KEYWORDS: AUTOMOBILES; FUEL ECONOMY; COMPARATIVE
EVALUATIONS; CLASSIFICATIONS; TABLES (DATA);
PUBLIC OPINION; CONSUMERS; PRICES;
PERFORMANCE; GRAPHS (CHARTS); ENVIRONMENTAL
PROTECTION AGENCY; SIZE

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<406>

Head, W.J.; Rogers, G.W.; Smith, R.Z.
California, University of; Alaska, University of,
Institute of Social, Economic and
Governmental Research; U.S. Dept. of State
ADDRESS: CU, Santa Barbara, CA 93109; AU,
College, AK 99701; USDS, Washington, DC
20520

TITLE: Transporting Natural Gas from the Arctic:
The Alternative Systems

111 p.

1977

SPONSOR: American Enterprise Institute for Public
Policy Research

KEYWORDS: NATURAL GAS; ARCTIC; PRUDHOE BAY
(ALASKA); ENVIRONMENTAL IMPACT; TABLES
(DATA); MAPS; ECONOMIC ANALYSIS;
TRANSPORTATION; GOVERNMENT POLICIES;
REGULATIONS; COSTS; CANADA; ALASKA;
TRANSPORTATION SYSTEMS

AVAILABILITY: American Enterprise Institute for
Public Policy Research, 1150 Seventeenth St.
NW, Washington, DC 20036 \$3.25

<407>

Mechanical Technology Inc., R&D Division
TITLE: Characterization Study of an Electric
Motor-Transmission System for Electric
Vehicles

Report No. MCP/M2635-01, v.p.

1978, March

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
AUTOMOBILE TRANSMISSIONS; TABLES (DATA);
GRAPHS (CHARTS)

AVAILABILITY: NTIS

<408>

Hellman, R.S.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Aggregate Auto Travel Forecasting: State
of the Art and Suggestions for Future Research

Report No. PB-263351, DOT-TSC-OST-76-51, 46 p.
1976, December

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology

KEYWORDS: TRAVEL; FORECASTING; AUTOMOBILES;
MODELS; VEHICLE MILES TRAVELED

AVAILABILITY: NTIS

<409>

Mencik, Z.; Blusberg, P.W.
Ford Motor Co., Engineering and Research Staff
ADDRESS: Dearborn, MI
TITLE: Representation of Engine Data by
Multi-Variate Least-Squares Regression

Paper No. 780288, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 16 p.

1978

KEYWORDS: AUTOMOTIVE ENGINES; VELOCITY;
PERFORMANCE; DESIGN; LOAD FACTOR; FUEL
ECONOMY; AUTOMOTIVE CONTROL SYSTEMS;
REGRESSION ANALYSIS; AUTOMOTIVE EMISSIONS;
TABLES (DATA)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<410>

Mencik, Z.; Tobler, W.E.; Blusberg, P.W.
Ford Motor Co., Engineering and Research Staff
ADDRESS: Dearborn, MI
TITLE: Simulation of Wide-Open Throttle Vehicle
Performance

Paper No. 780289, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 16 p.

1978

KEYWORDS: MODELS; COMPUTERIZED SIMULATION;
AUTOMOBILES; VELOCITY; MECHANICAL
TRANSMISSIONS; TIRES; FRICTION; AUTOMOTIVE
ENGINES; PERFORMANCE; GRAPHS (CHARTS)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<411>

Mercedes-Benz of North America Inc., Advertising
and Sales Promotion Dept.
ADDRESS: One Mercedes Drive, Montvale, NJ 07645
TITLE: Directory of Diesel Fuel Stations and
Authorized Mercedes-Benz Dealers

112 p.

1977

KEYWORDS: RETAIL TRADE; DIRECTORIES; DIESEL
FUELS; STATE ANALYSIS; CANADA; MAPS;
AUTOMOBILES; GAS STATIONS; SALES

<412>

<412>

Hightoll, P.; Hahn, W.F.
Boos, Allen & Hamilton Inc., Design and
Development Division
ADDRESS: Cleveland, OH 44131
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0595-78/1, NASA CR-13541, 140
p.

1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; National
Aeronautics and Space Administration, Lewis
Research Center

KEYWORDS: POWER TRAIN SYSTEMS; ELECTRIC VEHICLES;
TECHNOLOGY ASSESSMENT; MOTORS; AUTOMOBILE
TRANSMISSIONS; MODELS; DESIGN; COMPUTERIZED
SIMULATION; DIAGRAMS; TABLES (DATA)
AVAILABILITY: NTIS

<413>

Hiles, D.L.; Wiepoh, G.W.
General Motors Corp., Engineering Staff
ADDRESS: Detroit, MI
TITLE: Optimizing Engine and Car Design for Fuel
Economy and Emissions

Paper No. 760855, published in SAE SP-411, 23-32
1978, August

SPONSOR: Society of Automotive Engineers,
Milwaukee Section

KEYWORDS: FUEL ECONOMY; AUTOMOTIVE ENGINEERING;
AUTOMOBILES; DESIGN; WEIGHT; AUTOMOBILE
EMISSION CONTROL; FUEL CONSUMPTION; GRAPHS
(CHARTS); PERFORMANCE

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 for SAE SP-411

<414>

Milne, J.A.; Cantwell, C.; Rissler, K.
Chilton Co.
ADDRESS: Radnor, PA 19089
TITLE: Automobile Characteristics Historical Data
Base

Report No. DOT-TSC-OST-77-12, 76 p.

1977, August

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology; U.S. Dept. of Transportation,
Transportation Systems Center

KEYWORDS: DATA BASES; HISTORY; AUTOMOBILES;
CHARACTERISTICS; FUEL ECONOMY; PRODUCTION;
TABLES (DATA); AUTOMOBILE EMISSIONS;
MANUFACTURERS; COMPARATIVE EVALUATIONS;
PERFORMANCE; OPERATION; WEIGHT

AVAILABILITY: NTIS

<415>

Miner, D.K.
Copper Development Association Inc.
ADDRESS: Birmingham, MI
TITLE: Comparison of an Electric Versus a
Gasoline Powered Utility Truck in Two Years
of a Service Test Program

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 25 p.
1976, September

KEYWORDS: COMPARATIVE EVALUATIONS; ELECTRIC
VEHICLES; TESTING; OPERATING COSTS;
MAINTENANCE; VANS; PERFORMANCE; FUEL
CONSUMPTION
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<416>

Nitric, S.
Ohio State University, Dept. of Civil Engineering
ADDRESS: Columbus, OH
TITLE: Methodology of Comparing Modes in Urban
Transport

Paper presented at the Fifty-sixth Annual Meeting
of the Transportation Research Board,
Washington, DC, January 24-28, 1977, 34 p.
1977, January

SPONSOR: Ohio State University, Graduate School
KEYWORDS: URBAN TRANSPORTATION; COMPARATIVE
EVALUATIONS; TRANSPORTATION SYSTEMS; RAIL
TRANSPORTATION; RAPID TRANSIT SYSTEMS; BUSES
(VEHICLES); COSTS; BAY AREA RAPID TRANSIT
SYSTEM

<417>

Nittal, R.K.
Union College, Mechanical Engineering Dept.
ADDRESS: Schenectady, NY 12308
TITLE: Energy Intensity of Intercity Passenger
Rail

Report No. DOT/RSPD/DPS/50-78/7, 296 p.

1977, December

SPONSOR: U.S. Dept. of Transportation, Office of
University Research

KEYWORDS: RAIL TRANSPORTATION; ENERGY INTENSITY;
PASSENGER TRANSPORTATION; LOAD FACTOR;
INTERCITY TRANSPORTATION; EFFICIENCY; ENERGY
CONSUMPTION; RAILROAD CARS; OPERATION;
CAPACITY; ELECTRIC RAIL SYSTEMS; AUTOMOBILES;
BUSES (VEHICLES); GRAPHS (CHARTS); TABLES
(DATA)

AVAILABILITY: GPO

<418>

Nittal, R.K. (ed.)
Union College
ADDRESS: Schenectady, NY 12308
TITLE: Third National Conference on the Effects
of Energy Constraints on Transportation
Systems

Proceedings of a conference held at Union
College, Schenectady, New York, August 2-6,
1976, 408 p.

1977, May

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: TRANSPORTATION SYSTEMS; ENERGY
CONSUMPTION; ENERGY CONSERVATION; URBAN
TRANSPORTATION; BAY AREA RAPID TRANSIT
SYSTEM; CARGO TRANSPORTATION; RAIL
TRANSPORTATION; PASSENGER TRANSPORTATION;
REGULATIONS; CARPOOLING; TRUCKS; FUEL
ECONOMY; INTERCITY TRANSPORTATION; RAPID
TRANSIT SYSTEMS; AIR TRANSPORTATION; TABLES
(DATA); CONFERENCES; COMPUTERIZED SIMULATION
AVAILABILITY: GPO, Stock No. 060-000-00073-5

<419>

Nittal, R.K.; Rose, A.
Union College, Mechanical Engineering Dept.

<419> CONT.

ADDRESS: Schenectady, NY 12308
 TITLE: Track Data Characteristics for New York
 City - Buffalo Corridor

Final Report, Report No. DOT/RSPD/DPB/50-77/09,
 49 p.

1977, August

SPONSOR: U.S. Dept. of Transportation, Office of
 University Research

KEYWORDS: NEW YORK CITY; RAIL TRANSPORTATION;
 RAILROAD TRACKS; DISTANCE; BUFFALO (NEW
 YORK); TRAVEL TIME; ENERGY CONSUMPTION;
 EFFICIENCY; AUTOMOBILES; URBAN
 TRANSPORTATION; SPEED LIMITS;
 CHARACTERISTICS; TABLES (DATA); GRAPHS
 (CHARTS); COMPARATIVE EVALUATIONS

<420>

Mittal, R.K.; Santamaria, J.
 Union College, Mechanical Engineering Dept.
 ADDRESS: Schenectady, NY 12308
 TITLE: State of the Art in Passenger Rail-Rolling
 Stock Equipment

Final Report, Report No. DOT/RSPD/DPB/50-77/10,
 v.p.

1977, September

SPONSOR: U.S. Dept. of Transportation, Office of
 University Research

KEYWORDS: RAILROADS; EQUIPMENT; PASSENGER
 TRANSPORTATION; PERFORMANCE; LOCOMOTIVES;
 RAILROAD CARS; PHYSICAL PROPERTIES;
 MECHANICAL PROPERTIES; FUEL CONSUMPTION;
 GRAPHS (CHARTS); DIAGRAMS; TABLES (DATA);
 EFFICIENCY; AMTRAK
 AVAILABILITY: NTIS

<421>

Mobley, R.R. (compiler)
 General Motors Corp., Research Laboratories,
 Library, System on Automotive Safety
 Information
 ADDRESS: Warren, MI 48090
 TITLE: Bibliography on Electric Vehicles:
 1967-1976

Report No. SASI 77-401, v.p.

1977, April 15

KEYWORDS: ELECTRIC VEHICLES; BIBLIOGRAPHIES;
 HISTORY; CONFERENCES; ENVIRONMENTAL IMPACT;
 GOVERNMENT POLICIES; AUTOMOBILES; BUSES
 (VEHICLES); HYBRID ELECTRIC-POWERED VEHICLES;
 TRUCKS; VANS; BATTERIES

<422>

Moncrief, L.W.; Houser, T.W.; Pitrak, P.
 Michigan State University, Dept. of Park and
 Recreation Resources
 ADDRESS: East Lansing, MI
 TITLE: The Influence of Gasoline Price and
 Availability Upon Recreation Travel Propensity

Communications, 3(5), 431-447

1977

SPONSOR: Upper Great Lakes Regional Commission
 KEYWORDS: GASOLINE; PRICES; RECREATIONAL TRAVEL;
 FUEL CONSUMPTION; TOURISM; GREAT LAKES;
 REGIONAL ANALYSIS; INCOME; AUTOMOBILES;
 ATTITUDES; PUBLIC OPINION

<423>

Monford, L.G.
 National Aeronautics and Space Administration,

<419>

Lyndon B. Johnson Space Center
 ADDRESS: Houston, TX 77058

TITLE: Performance Characteristics of a Diesel
 Engine Using Low- and Medium-Energy Gases as
 a Fuel Supplement (Fumigation)

Report No. N77-14955, NASA TM X-58188, 23 p.
 1976, October

SPONSOR: National Aeronautics and Space

Administration

KEYWORDS: DIESEL ENGINES; SOLID WASTES; ALTERNATE
 FUELS; FUMIGATION; DIESEL FUELS; PERFORMANCE;
 SYNTHETIC FUELS
 AVAILABILITY: NTIS

<424>

Moon, A.E.

Stanford Research Institute

ADDRESS: Menlo Park, CA 94025

TITLE: Energy Study of Railroad Freight
 Transportation. Volume 1: Executive Summary

SRI Project TCU 5419, 37 p.

1977, August

SPONSOR: Energy Research and Development
 Administration

KEYWORDS: RAIL TRANSPORTATION; CARGO
 TRANSPORTATION; ENERGY CONSUMPTION; ENERGY
 CONSERVATION; GOVERNMENT POLICIES;
 REGULATIONS; ECONOMICS; EQUIPMENT;
 EFFICIENCY; GRAPHS (CHARTS)

<425>

Moon, A.E.

Stanford Research Institute

ADDRESS: Menlo Park, CA 94025

TITLE: Energy Study of Railroad Freight
 Transportation. Volume 2: Industry
 Description

SRI Project TCU 5419, 146 p.

1977, August

SPONSOR: Energy Research and Development
 Administration

KEYWORDS: RAIL TRANSPORTATION; CARGO
 TRANSPORTATION; ENERGY CONSUMPTION; ENERGY
 CONSERVATION; GOVERNMENT POLICIES;
 REGULATIONS; ECONOMICS; EQUIPMENT;
 EFFICIENCY; HISTORY; CONSTRUCTION; RAILROADS;
 MODELS; COSTS; TRUCKS; REGULATIONS; TABLES
 (DATA); GRAPHS (CHARTS)

<426>

Moon, A.E.; Proctor, H.S.

Stanford Research Institute

ADDRESS: Menlo Park, CA 94025

TITLE: Energy Study of Railroad Freight
 Transportation. Volume 4: Efficiency
 Improvements and Industry Future

SRI Project TCU 5419, 155 p.

1977, August

SPONSOR: Energy Research and Development
 Administration

KEYWORDS: RAIL TRANSPORTATION; CARGO
 TRANSPORTATION; EFFICIENCY; FORECASTING;
 TECHNOLOGY; ENERGY CONSERVATION; MARKET;
 RESEARCH; BIBLIOGRAPHIES; COSTS; EQUIPMENT

<427>

Moore, N. (ed.)

National Academy of Sciences, National Research

Council, Transportation Research Board

ADDRESS: 2101 Constitution Ave. NW, Washington,

<427>

<427> CONT.

DC 20418

TITLE: Transportation Programming and Management

Transportation Research Record 585, 7 reports prepared for the 56th Annual Meeting of the Transportation Research Board, 78 p.

1976

KEYWORDS: TRANSPORTATION; MANAGEMENT; HIGHWAYS; CONSTRUCTION; PLANNING; SAFETY; FLORIDA; WASHINGTON; STATE GOVERNMENT; GOVERNMENT POLICIES; TABLES (DATA)

AVAILABILITY: \$3.60

<428>

Morlok, E.K.

Pennsylvania, University of, Civil and Urban Engineering Dept.

ADDRESS: Philadelphia, PA 19174

TITLE: An Engineering Analysis and Comparison of Railroad and Truck Line-Haul Work (Energy) Requirements

Paper presented in the proceedings of the Third National Conference on the Effects of Energy Constraints on Transportation Systems, R. K. Mittal (ed.), pp. 81-107; a similar paper entitled "A Comparison of Railroad and Truck Line-Haul Work (Energy) Requirements Under Various Shipment Weight, Speed, and Topographic Conditions" was presented to the Transportation Research Board, January 1976

1977, March

KEYWORDS: RAIL TRANSPORTATION; TRUCKS; ENERGY CONSUMPTION; WEIGHT; VELOCITY; ENERGY DEMAND; COMPARATIVE EVALUATIONS; CARGO TRANSPORTATION; INTERCITY TRANSPORTATION; FUEL CONSUMPTION; TABLES (DATA); GRAPHS (CHARTS); ENGINEERING; MODELS; PROPULSION

AVAILABILITY: GPO, Stock No. 060-000-00073-5 for entire proceedings

<429>

Harrison, P.A.

Rand Corp.

ADDRESS: 1700 Main Street, Santa Monica, CA 90406

TITLE: Current Demographic Change in Regions of the United States

Report No. P-6000, presented at a conference on "Alternatives to Confrontations: A National Policy Toward Change", held at the University of Texas, Austin, Texas, September 24-27, 1977, 37 p.

1977, November

SPONSOR: U.S. Dept. of Commerce

KEYWORDS: DEMOGRAPHY; ECONOMIC IMPACT; REGIONAL ANALYSIS; POPULATION MIGRATION; EDUCATION; SOCIAL PROBLEMS; URBAN AREAS; ENERGY SHORTAGES; NORTHEASTERN STATES; IMPORTS; GREAT LAKES; SOUTHERN STATES; WESTERN STATES; POLITICAL OBJECTIVES; RURAL AREAS; PLANNING; STABILITY; GROWTH; STATISTICS; GRAPHS (CHARTS); TABLES (DATA); FAMILY LIFE; MAPS; LABOR MIGRATION

<430>

Motor Vehicle Manufacturers Association of the U.S. Inc.

ADDRESS: 300 New Center Building, Detroit, MI 48202

TITLE: Motor Vehicle Facts & Figures '78

Annual publication, 96 p.

1978

KEYWORDS: MOTOR TRANSPORTATION; STATISTICS; FUEL ECONOMY; STANDARDS; TRUCKS; BUSES (VEHICLES); PASSENGER TRANSPORTATION; ENERGY

CONSERVATION; ECONOMIC ANALYSIS; MANUFACTURERS; GRAPHS (CHARTS); FUEL CONSUMPTION; EMISSIONS; AIR TRANSPORTATION; EXPORTS; WATER TRANSPORTATION; TAXES; RAIL TRANSPORTATION; EMPLOYMENT; EARNINGS; ROADS; ACCIDENTS; VEHICLE REGISTRATIONS; OWNERSHIP; PRODUCTION; VEHICLE MILES TRAVELED

<431>

Motor Vehicle Manufacturers Association of the

U.S. Inc., Statistics Dept.

ADDRESS: 300 New Center Building, Detroit, MI

48202

TITLE: World Motor Vehicle Data: 1977 Edition

Annual publication, 206 p.

1977

KEYWORDS: STATISTICS; VEHICLES; TABLES (DATA); INTERNATIONAL TRADE; PRODUCTION; EXPORTS; VEHICLE REGISTRATIONS; AFRICA; ASIA; EUROPE; IMPORTS; AUSTRALIA; NEW ZEALAND; REGIONAL ANALYSIS; NORTH AMERICA; SOUTH AMERICA

AVAILABILITY: \$20.00

<432>

Motor Vehicle Manufacturers Association of the

U.S. Inc., Statistics Dept.

ADDRESS: Detroit, MI 48202

TITLE: Motor Vehicle Factory Sales from Plants in U.S. & Canada

Weekly publication, Series No. FS-4, v.p.

Weekly

KEYWORDS: MOTOR VEHICLES; AUTOMOBILES; TRUCKS; BUSES (VEHICLES); STATISTICS; EXPORTS; IMPORTS; COSTS; PRODUCTION; SALES

<433>

Motorcycle Industry Council Inc., Research and

Statistics Dept.

ADDRESS: 4100 Buck Street, Suite 101, Newport

Beach, CA 92660

TITLE: 1978 Motorcycle Statistical Annual

Annual report, 46 p.

1978

KEYWORDS: MOTORCYCLES; STATISTICS; MARKET; VEHICLE REGISTRATIONS; MANUFACTURERS; UTILIZATION; VEHICLE MILES TRAVELED; FINANCIAL DATA; SALES; IMPORTS; OPERATING COSTS; ACCIDENTS; OWNERS; COSTS

AVAILABILITY: \$5.00

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Hudge, R.R.; Wheeler, P.K.

U.S. Congress, Congressional Budget Office,

Natural Resources and Commerce Division

ADDRESS: Washington, DC

TITLE: Urban Mass Transportation: Options for Federal Assistance

Budget Issue Paper, 73 p.

1977, February

KEYWORDS: URBAN TRANSPORTATION; MASS TRANSPORTATION; GOVERNMENT POLICIES; BUDGETS; CAPITAL; INVESTMENTS

AVAILABILITY: GPO \$1.65

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Hueller Associates Inc.

<435> CONT.

ADDRESS: Baltimore, MD
 TITLE: Status of Alcohol Fuels Utilization
 Technology for Highway Transportation

Report No. HCP/H2923-01, 132 p.
 1978, June

SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: ALTERNATE FUELS; UTILIZATION; ALCOHOL
 FUELS; HIGHWAY TRANSPORTATION; METHANOL;
 ETHANOL; TESTING; ENGINES; EMISSIONS;
 PERFORMANCE; FUEL ECONOMY; FUEL CONSUMPTION;
 COMPARATIVE EVALUATIONS; PROPERTIES; COSTS;
 GRAPHS (CHARTS); WATER
 AVAILABILITY: NTIS

<436>

Mueller Associates Inc.
 ADDRESS: Baltimore, MD
 TITLE: Denaturants for Ethanol/Gasoline Blends

Report No. HCP/H2098-01, 16 p.
 SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: ETHANOL; GASOLINE; ALTERNATE FUELS;
 DENATURANTS

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Mufti, P.K.; Golfin, L.S.; Dougherty, C.D.
 Delaware Valley Regional Planning Commission
 ADDRESS: Philadelphia, PA
 TITLE: Modal-Choice Analysis of an Exclusive Bus
 and Car-Pool Lane (Abridgment)

Paper published in Transportation Research Record
 626, 27-29

1977

SPONSOR: U.S. Dept. of Transportation, Federal
 Highway Administration; U.S. Dept. of
 Transportation, Urban Mass Transportation
 Administration; New Jersey Dept. of
 Transportation
 KEYWORDS: TRAFFIC CONTROL; HIGHWAY
 TRANSPORTATION; BUSES (VEHICLES); CARPOOLING;
 MODELS; COMPARATIVE EVALUATIONS
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.20 for Transportation Research Record 626

<438>

Mundt, P.M.
 Peat, Marwick, Mitchell and Co.
 TITLE: Multiproject Scheduling for Transportation
 Construction Programs

Report presented at the 54th Annual Meeting of
 the Transportation Research Board, published
 in Transportation Research Record 585, 17-24

1976

KEYWORDS: TRANSPORTATION; CONSTRUCTION;
 SCHEDULING; STATE GOVERNMENT; MANAGEMENT;
 FUNDING; FLORIDA; PLANNING
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$3.60 for Transportation Research Record 585

<439>

Hundy, R.A.
 Tennessee, University of, Transportation Center
 ADDRESS: Knoxville, TN
 TITLE: Mass Transit Guidelines Versus a Consumer

Orientation in Public Transportation Systems
 <435>

Paper published in Transportation Research Record
 625, 33-37

1977

SPONSOR: National Cooperative Highway Research
 Program
 KEYWORDS: MASS TRANSPORTATION; PUBLIC
 TRANSPORTATION; CONSUMERS; ATTITUDES; SERVICES
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$3.20 for Transportation Research Record 625

<440>

Hunson, J.S.; Brainard, J.P.
 Brookhaven National Laboratory, National Center
 for Analysis of Energy Systems, Policy
 Analysis Division
 ADDRESS: Upton, NY 11973
 TITLE: The Energy Situation in the Mid-Atlantic
 Region

Report No. BNL 50703, 253 p.

1977, August

SPONSOR: U.S. Dept. of Energy
 KEYWORDS: MIDDLE ATLANTIC STATES; ENERGY
 SUPPLIES; ENERGY DEMAND; DISTRICT OF
 COLUMBIA; DELAWARE; MARYLAND; NEW JERSEY; NEW
 YORK; OHIO; PENNSYLVANIA; PUERTO RICO;
 VIRGINIA; VIRGIN ISLANDS; ENERGY CONSUMPTION;
 PETROLEUM; NATURAL GAS; COAL; NUCLEAR ENERGY;
 HYDROELECTRIC POWER; TABLES (DATA); REGIONAL
 ANALYSIS; STATE ANALYSIS; ELECTRIC UTILITIES;
 PRODUCTION; EMPLOYMENT; GRAPHS (CHARTS);
 PRICES; ENVIRONMENTAL IMPACT; AIR QUALITY;
 WATER QUALITY; ENERGY CONSERVATION;
 GOVERNMENT POLICIES; LEGISLATION
 AVAILABILITY: NTIS

<441>

Murrell, J.D.
 U.S. Environmental Protection Agency
 TITLE: Light Duty Automotive Fuel Economy ...
 Trends Through 1978

Paper 780036, presented at the Society of
 Automotive Engineers' Congress and
 Exposition, Cobo Hall, Detroit, Michigan,
 February 27 - March 3, 1978, 36 p.

1978

SPONSOR: Society of Automotive Engineers
 KEYWORDS: FUEL ECONOMY; AUTOMOBILES; TRUCKS;
 STANDARDS; WEIGHT; GRAPHS (CHARTS); HISTORY;
 MANUFACTURERS; TABLES (DATA); SALES
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.50

<442>

Naill, R.F.; Backus, G.A.
 Dartmouth College, Thayer School of Engineering
 ADDRESS: Hanover, NH 03755
 TITLE: Evaluating the National Energy Plan

Technology Review, 79(8), 51-56

1977, July/August

KEYWORDS: NATIONAL ENERGY PLAN; ENERGY POLICY;
 ENERGY MODELS; ENERGY CONSERVATION;
 PETROLEUM; NATURAL GAS; COAL; PRICES;
 FORECASTING; ENERGY DEMAND; IMPORTS;
 PRODUCTION; COMPARATIVE EVALUATIONS;
 GOVERNMENT POLICIES; OPEC; ENERGY CONSUMPTION

<443>
<443>

National Academy of Sciences, National Research Council, Assembly of Engineering, Energy Engineering Board, Committee on Advanced Energy Storage Systems
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Development Schedules for Vehicle Energy Storage Systems

19 p.
1977

SPONSOR: Energy Research and Development Administration
KEYWORDS: ELECTRIC VEHICLES; DEVELOPMENT; TRANSPORTATION; LEGISLATION; ENERGY STORAGE; BATTERIES; FLYWHEELS; FORECASTING; HYBRID ELECTRIC-POWERED VEHICLES

<444>

National Academy of Sciences, National Research Council, Assembly of Life Sciences, Committee on Toxicology
ADDRESS: Washington, DC
TITLE: Fuels and Fuel Additives for Highway Vehicles and Their Combustion Products: A Guide to Evaluation of Their Potential Effects on Health

89 p.
1976

SPONSOR: U.S. Environmental Protection Agency
KEYWORDS: HIGHWAY TRANSPORTATION; MOTOR VEHICLES; FUELS; FUEL ADDITIVES; AUTOMOTIVE EMISSIONS; HEALTH HAZARDS; TOXICITY; POLLUTION REGULATIONS; STANDARDS; TESTING
AVAILABILITY: National Academy of Sciences, 2101 Constitution Avenue, Washington, DC 20418

<445>

National Academy of Sciences, National Research Council, Highway Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Travel Behavior

Highway Research Record No. 446, papers presented at the Fifty-Second Annual Meeting of the Highway Research Board, 66 p.

1973

KEYWORDS: TRAVEL; BEHAVIOR; URBAN TRANSPORTATION; DEMAND (ECONOMICS); INTERCITY TRANSPORTATION; MODELS; CHICAGO
AVAILABILITY: \$2.20

<446>

National Academy of Sciences, National Research Council, Highway Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Transportation Forecasting

Highway Research Record No. 472, papers presented at the Fifty-Second Annual Meeting of the Highway Research Board, 120 p.

1973

KEYWORDS: TRANSPORTATION; FORECASTING; PLANNING; URBAN TRANSPORTATION; RECREATION; MODELS; AUTOMOBILES; OWNERS; REGIONAL ANALYSIS; AIR TRANSPORTATION; PASSENGER TRANSPORTATION; TRAVEL; DEMAND (ECONOMICS); SURVEYS; GRAPHS (CHARTS)
AVAILABILITY: \$3.80

<447>

National Academy of Sciences, National Research Council, Highway Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418
TITLE: Highway and Urban Transportation in the 1970's and 1980's

Special Report 122, a panel discussion at the plenary session of the 50th Annual Meeting of the Highway Research Board, January 19, 1971, 23 p.

1971

KEYWORDS: HIGHWAY TRANSPORTATION; URBAN TRANSPORTATION; FORECASTING; SOCIO-ECONOMIC FACTORS; FUNDING; TECHNOLOGY; HOUSING

<448>

National Academy of Sciences, National Research Council, Highway Research Board
ADDRESS: 2101 Constitution Ave., NW, Washington, DC 20418
TITLE: Highway Capacity Manual: 1965

HRB Special Report 87, 411 p.
1976, September

KEYWORDS: HIGHWAYS; DESIGN; TRAFFIC CONTROL; TRAFFIC; VELOCITY; CAPACITY; PEAK-HOUR DEMAND; HIGHWAY TRANSPORTATION; RURAL AREAS; URBAN AREAS; BUSES (VEHICLES); DELAYS; DAILY VARIATIONS; TABLES (DATA); PHOTOGRAPHS; OPTIMIZATION; GRAPHS (CHARTS); CONSTRUCTION
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$8.00

<449>

National Academy of Sciences, National Research Council, Highway Research Board, Advisory Committee on Movement of Goods in Urban Areas
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Urban Commodity Flow

Highway Research Board Special Report No. 120, report of a conference held December 6-9, 1970, 207 p.

1971

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary; Canadian Ministry of Transport
KEYWORDS: URBAN TRANSPORTATION; PLANNING; CARGO TRANSPORTATION; TRUCKS; INTERCITY TRANSPORTATION; INTRACITY TRANSPORTATION; COSTS; GOVERNMENT POLICIES; FORECASTING; TRAFFIC; LABOR RELATIONS; TONNAGE; TABLES (DATA)
AVAILABILITY: \$6.00

<450>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: New Approaches to Travel Forecasting

Transportation Research Record 569, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 157 p.

1976

KEYWORDS: TRAVEL; FORECASTING; CONFERENCES; TRAFFIC; PLANNING; BEHAVIOR; AUTOMOBILES; OWNERS; URBAN TRANSPORTATION; MODELS; SHOPPING; RECREATION; COMMUTING; INTERCITY TRANSPORTATION; DEMAND (ECONOMICS); GRAPHS (CHARTS)
AVAILABILITY: \$6.00

<451>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Freight Transportation Characteristics
Transportation Research Record 591, 53 p.
1976
KEYWORDS: CARGO TRANSPORTATION; PLANNING; DEMAND
(ECONOMICS); URBAN TRANSPORTATION; RAIL
TRANSPORTATION; INTERNATIONAL TRADE; TRUCKS
AVAILABILITY: \$2.60

<452>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Air Travel and Aviation Facilities Planning
Transportation Research Record 529, papers
presented at the 54th Annual Meeting of the
Transportation Research Board, 43 p.
1975
KEYWORDS: AIR TRANSPORTATION; AIRPORTS;
ENVIRONMENTAL IMPACT; LAND USE; NOISE
POLLUTION; WATER POLLUTION; AIR POLLUTION;
SOLID WASTES; ECONOMICS; NEW YORK CITY;
SOCIAL IMPACT ASSESSMENT; DEMAND (ECONOMICS);
COSTS; GRAPHS (CHARTS); PLANNING; MODELS
AVAILABILITY: \$2.00

<453>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Travel Behavior and Values
Transportation Research Record 534, papers
presented at the 54th Annual Meeting of the
Transportation Research Board, 75 p.
1975
KEYWORDS: TRAVEL; BEHAVIOR; FORECASTING; URBAN
TRANSPORTATION; SOCIO-ECONOMIC FACTORS;
MATHEMATICAL MODELS; TABLES (DATA); GRAPHS
(CHARTS); VALUES
AVAILABILITY: \$3.20

<454>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: The Bicycle as a Transportation Mode
Transportation Research Record 570, 3 reports
prepared for the 53rd Annual Meeting and 6
reports prepared for the 54th Annual Meeting
of the Transportation Research Board, 45 p.
1976
KEYWORDS: BICYCLES; TRANSPORTATION; LEGISLATION;
PLANNING; DESIGN; DEVELOPMENT; URBAN
TRANSPORTATION; SAFETY; BIKEWAYS; TABLES
(DATA); SIMULATION; MODELS

<455>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Planning and Programming for Transportation

<451>
Transportation Research Record 574, papers
presented at the 54th Annual Meeting of the
Transportation Research Board, 58 p.
1976
KEYWORDS: PLANNING; TRAVEL; TRANSPORTATION; URBAN
TRANSPORTATION; LOS ANGELES; REGIONAL
ANALYSIS; MODELS; SAIGON (VIETNAM); PUBLIC
TRANSPORTATION; GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: \$2.60

<456>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation Characteristics of Truck,
Rail, and Water Freight

Report No. PB-256000, Transportation Research
Record No. 577, papers presented at the 54th
Annual Meeting of the Transportation Research
Board, 51 p.
1976
KEYWORDS: TRANSPORTATION; TRUCKS; RAIL
TRANSPORTATION; WATER TRANSPORTATION; BARGES;
INLAND WATERWAYS; CARGO TRANSPORTATION;
TABLES (DATA); GRAPHS (CHARTS); COMMODITIES;
FORECASTING; RAILROADS; WISCONSIN; STATE
GOVERNMENT; COMPUTERIZED SIMULATION; RAILROAD
CARS; PLANNING
AVAILABILITY: Transportation Research Board
\$2.20; NTIS

<457>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20418
TITLE: Intercity Freight Movement by Rail and
Highway

Transportation Research Record 511, papers
presented at the Fifty-Third Annual Meeting
of the Highway Research Board, ISBN
0-309-02355-6, 44 p.
1974
KEYWORDS: CARGO TRANSPORTATION; INTERCITY
TRANSPORTATION; RAIL TRANSPORTATION; HIGHWAY
TRANSPORTATION; MARKET; URBAN TRANSPORTATION;
PLANNING; STATE GOVERNMENT; WISCONSIN
AVAILABILITY: \$2.20

<458>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Travel Demand Forecasting

Transportation Research Record 526, papers
presented at the Fifty-Third Annual Meeting
of the Highway Research Board, 103 p.
1974
KEYWORDS: TRAVEL; DEMAND (ECONOMICS);
FORECASTING; AIR TRANSPORTATION; URBAN
TRANSPORTATION; PLANNING; BEHAVIOR;
TRANSPORTATION; PASSENGER TRANSPORTATION;
MODELS; INTERCITY TRANSPORTATION
AVAILABILITY: \$4.40

<459>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC

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<459> CONT.

TITLE: Social, Economic, and Environmental Implications in Transportation Planning

Transportation Research Record 583, papers presented for the 54th Annual Meeting of the Transportation Research Board, 95 p.

1976

KEYWORDS: SOCIAL IMPACT; ECONOMIC IMPACT; SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL IMPACT; TRANSPORTATION; PLANNING; GOVERNMENT POLICIES; TRAVEL; BEHAVIOR; MASSACHUSETTS; ENVIRONMENTAL IMPACT STATEMENTS; ECONOMICS; AUTOMOBILES; OWNERSHIP; NORTH CAROLINA; URBAN AREAS; LOCAL GOVERNMENT; STATE ANALYSIS

AVAILABILITY: \$6.00

<460>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418

TITLE: Transit Planning

Transportation Research Record 559, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 132 p.

1976

KEYWORDS: PLANNING; TAXICABS; RAPID TRANSIT SYSTEMS; TRANSPORTATION SYSTEMS; PASSENGER TRANSPORTATION; BUSES (VEHICLES); COMMUTING; URBAN TRANSPORTATION; COMPARATIVE EVALUATIONS; BEHAVIOR; COSTS; TRANSPORTATION DISADVANTAGED; TABLES (DATA); GRAPHS (CHARTS); RURAL AREAS; MOBILITY

AVAILABILITY: \$10.00

<461>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418

TITLE: Public Transportation Planning

Transportation Research Record 563, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 96 p.

1976

KEYWORDS: PUBLIC TRANSPORTATION; PLANNING; URBAN TRANSPORTATION; STATE GOVERNMENT; LEGISLATION; CONSUMERS; ATTITUDES; ATLANTA; DIAL-A-RIDE; BUSES (VEHICLES); LOCAL GOVERNMENT; TABLES (DATA); GRAPHS (CHARTS); CALIFORNIA; BAY AREA RAPID TRANSIT SYSTEM; PARK-AND-RIDE; TRANSPORTATION DISADVANTAGED; INDIANA; STATE ANALYSIS

AVAILABILITY: \$6.00

<462>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418

TITLE: Regional Bus Transportation

Transportation Research Record 546, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 63 p.

1975

KEYWORDS: REGIONAL ANALYSIS; BUSES (VEHICLES); PUBLIC TRANSPORTATION; RIGHT-OF-WAY; RAPID TRANSIT SYSTEMS; CAPACITY; PLANNING; LOS ANGELES; PASSENGER TRANSPORTATION; LOCAL GOVERNMENT; URBAN TRANSPORTATION; HIGHWAYS; TRAFFIC CONTROL

AVAILABILITY: \$2.60

<463>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418

TITLE: Rail Transit Development

Transportation Research Record 552, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 57 p.

1975

KEYWORDS: RAIL TRANSPORTATION; URBAN TRANSPORTATION; PUBLIC TRANSPORTATION; BAY AREA RAPID TRANSIT SYSTEM; ENERGY CONSUMPTION; TRANSPORTATION SYSTEMS; RAPID TRANSIT SYSTEMS; ECONOMICS; TABLES (DATA); GRAPHS (CHARTS); EUROPE; REGIONAL ANALYSIS

AVAILABILITY: \$2.60

<464>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418

TITLE: Energy Effects, Efficiencies, and Prospects for Various Modes of Transportation

National Cooperative Highway Research Program
Synthesis of Highway Practice 43, 63 p.

1977

SPONSOR: American Association of State Highway and Transportation Officials; U.S. Dept. of Transportation, Federal Highway Administration
KEYWORDS: ENERGY CONSUMPTION; EFFICIENCY; FORECASTING; TRANSPORTATION; PLANNING; COMPARATIVE EVALUATIONS; PASSENGER TRANSPORTATION; CARGO TRANSPORTATION; ENERGY CONSERVATION; AUTOMOBILES; BUSES (VEHICLES); GRAPHS (CHARTS); TABLES (DATA); RAIL TRANSPORTATION; AIR TRANSPORTATION; BICYCLES; WATER TRANSPORTATION; HIGHWAY TRANSPORTATION; PIPELINES; SLURRY PIPELINES

AVAILABILITY: \$8.00

<465>

National Academy of Sciences, National Research Council, Transportation Research Board, Commission on Sociotechnical Systems
ADDRESS: Washington, DC

TITLE: Scope and Plan for a Study of Transportation Energy Research Needs and Priorities. A Report to the Energy Research and Development Administration

17 p.

1976

SPONSOR: Energy Research and Development Administration

KEYWORDS: PLANNING; TRANSPORTATION; RESEARCH; US ERDA; ENERGY DEMAND; ENERGY SUPPLIES; ENERGY RESOURCES; FORECASTING; ENERGY CONSERVATION; DEMAND (ECONOMICS); GOVERNMENT POLICIES; SOCIO-ECONOMIC FACTORS

AVAILABILITY: National Academy of Sciences, 2101 Constitution Ave., Washington, DC 20418

<466>

National Aeronautics and Space Administration, Lewis Research Center
ADDRESS: Cleveland, OH 44135

TITLE: State-Of-The-Art Assessment of Electric and Hybrid Vehicles

Report No. NCP/N1011-01, v.p.
1978, January

<466> CONT.

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; EQUIPMENT; TESTING; TABLES (DATA); BATTERIES; SURVEYS; PERFORMANCE; ELECTRIC VEHICLE RANGE; ENERGY CONSUMPTION; RELIABILITY
 AVAILABILITY: NTIS

<467>

National Aeronautics and Space Administration, Lewis Research Center
 ADDRESS: Cleveland, OH
 TITLE: Twelve State-of-the-Art Individual Electric and Hybrid Vehicle Test Reports. Volume I

Report No. HCP/M1011-03/1, v.p.
 1978, July

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; TESTING; DRIVING CYCLE; ENERGY CONSUMPTION; PERFORMANCE; DESIGN; BATTERIES; TABLES (DATA); GRAPHS (CHARTS); MANUFACTURERS
 AVAILABILITY: NTIS

<468>

National Association State Directors of Pupil Transportation Services
 TITLE: 1975-76 Statistics on Pupil Transportation

3 p.

KEYWORDS: STATE ANALYSIS; EXPENDITURES; BUSES (VEHICLES); STATISTICS; OWNERSHIP; SCHOOLS; CHILDREN

<469>

National Petroleum Council
 TITLE: Potential for Energy Conservation in the United States: 1979-1985

204 p.

1975, August 6

SPONSOR: U.S. Dept. of Interior
 KEYWORDS: ENERGY CONSERVATION; INDUSTRIAL SECTOR; TRANSPORTATION; COMMERCIAL SECTOR; RESIDENTIAL SECTOR; ELECTRIC UTILITIES; TABLES (DATA); FORECASTING; HEAT PUMPS; APPLIANCES; SOLAR ENERGY; AUTOMOBILES; FUEL CONSUMPTION; EMISSIONS; DESIGN; REGULATIONS; TECHNOLOGY

<470>

National Petroleum News
 ADDRESS: 1221 Ave. of the Americas, New York, NY 10020
 TITLE: 1978 National Petroleum News Factbook Issue

National Petroleum News, 70 (6A), 209 p.

1978, Mid-June

KEYWORDS: AIR TRANSPORTATION; STATE ANALYSIS; FINANCIAL DATA; TIRES; BATTERIES; DIRECTORIES; FUEL OIL; MILEAGE; GAS STATIONS; AVIATION FUELS; AUTOMOBILES; MARKETING; TRUCKS; AUTOMOBILE DRIVERS; CAPITAL COSTS; ENERGY DEMAND; AIR POLLUTION; ADVERTISING; GASOLINE; PETROLEUM; UNLEADED AUTOMOTIVE FUELS

<471>

Nelson, P.A.; Chilenskas, A.A.; Steunenberg, R.K.
 Argonne National Laboratory, Chemical Engineering Division
 ADDRESS: 9700 South Cass Avenue, Argonne, IL 60439

TITLE: The Need for Development of High-Energy Batteries for Electric Automobiles

Report No. AVL-8075, 24 p.

1974, November

SPONSOR: U.S. Atomic Energy Commission
 KEYWORDS: BATTERIES; AIR POLLUTION; FORECASTING; LITHIUM-SULFUR BATTERIES; ELECTRIC VEHICLES; ECONOMIC ANALYSIS; COMPARATIVE EVALUATIONS
 AVAILABILITY: NTIS

<472>

Nevev, A.J.
 New York State Dept. of Transportation, Planning Division
 ADDRESS: State Campus, Albany, NY 12232
 TITLE: Public Opinion Survey on Energy and Transportation

Preliminary Research Report No. 135, 47 p.

1977, December

SPONSOR: U.S. Dept. of Transportation
 KEYWORDS: SURVEYS; NEW YORK; ENERGY CONSERVATION; TRANSPORTATION; REGIONAL ANALYSIS; AGE GROUPS; SEX; ENERGY POLICY; PUBLIC OPINION; MASS TRANSPORTATION; INCENTIVES; TRANSPORTATION DISADVANTAGES; QUESTIONNAIRES; GASOLINE; FUEL CONSUMPTION

<473>

Niccoletti, W.
 Federal Energy Administration, Office of Energy Information and Analysis, Consumption Studies Division
 ADDRESS: 12th and Pennsylvania Avenue NW, Old Post Office Building, Room 306, Washington, DC 20461
 TITLE: Lifestyles and Household Energy Use: 1973 and 1975 National Surveys, Code Book and Processing Guide

Report No. PB-272449, FEA/DE-77/001A, 233 p.

1977, September

KEYWORDS: SURVEYS; RESIDENTIAL SECTOR; ENERGY CONSUMPTION; COSTS; ELECTRIC POWER DEMAND; NATURAL GAS; FUEL OIL; SPACE HEATING; AIR CONDITIONING; WATER HEATERS; LIFE STYLE; AUTOMOBILES; APPLIANCES; TABLES (DATA); REGIONAL ANALYSIS; COSTS; POPULATION (STATISTICS); OWNERS; ATTITUDES; ENERGY CONSERVATION
 AVAILABILITY: NTIS

<474>

Nichols, H.W.
 National Petroleum Council
 ADDRESS: Washington, DC
 TITLE: Balancing Requirements for World Oil and Energy

Chemical Engineering Progress, 70 (10), 36-48

1974, October

KEYWORDS: ENERGY DEMAND; PETROLEUM; ENERGY SUPPLIES; IMPORTS; ENERGY RESOURCES; PRODUCTION; TABLES (DATA); GROWTH; INTERNATIONAL TRADE; FOSSIL FUELS; SYNTHETIC FUELS; COAL; GOVERNMENT POLICIES; FORECASTING; ENERGY CONSUMPTION

<475>

<475>

Nicolaides, G.C.; Murawski, C.A.
General Motors Corp., Research Laboratories
ADDRESS: Warren, MI 48090
TITLE: Analysis of Preference for Mixed-Mode Transit

Reprint from Traffic Quarterly, July 1977,
472-496; also available as Research
Publication No. GMR-2255
1977, July

KEYWORDS: ATTITUDES; URBAN TRANSPORTATION;
COMMUTING; MODELS; TABLES (DATA); GRAPHS
(CHARTS); TRAVEL TIME; TRAVEL; COSTS;
MIXED-MODE TRANSIT

AVAILABILITY: General Motors Corp., Research
Laboratories, Warren MI 48090 for GMR-2255

<476>

Noe, L.R. (ed.)
Marketing Handbooks Inc.
ADDRESS: 31 Wallacks Lane, Stamford, CT 06902
TITLE: Travel Market Yearbook: 1976/1977

Annual publication, 128 p.
1976

KEYWORDS: TRAVEL; MARKET; AUTOMOBILES;
INTERNATIONAL ANALYSIS; TOURISM; ADVERTISING;
FORECASTING; TRANSPORTATION; TAXES; AIR
TRANSPORTATION; RAIL TRANSPORTATION;
PASSENGER TRANSPORTATION; BUSES (VEHICLES);
SERVICES; TABLES (DATA)

AVAILABILITY: \$26.00

<477>

Forman, T.A.
U.S. Postal Service
ADDRESS: Washington, DC
TITLE: Electric-Plywheel Vehicle for Postal
Service Applications

Paper No. 780297, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 4 p.

1978

KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; FLYWHEELS;
AUTOMOTIVE FLEETS; ENERGY CONSERVATION;
UTILIZATION; POSTAL SERVICE

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<478>

North Atlantic Treaty Organization, Committee on
the Challenges of Modern Society
TITLE: Proceedings of the Fourth International
Symposium on Automotive Propulsion Systems.
Volumes I and II

Report No. CONF-770430/1, symposium held in
Washington, DC, April 18-22, 1977, 1034 p.
1978, February

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: CONFERENCES; PROPULSION; AUTOMOBILES;
GAS TURBINES; AUTOMOTIVE FUELS; FUELS; DIESEL
ENGINES; STIRLING ENGINES; RANKINE CYCLE
ENGINES; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; STRATIFIED CHARGE
ENGINES; SPARK IGNITION ENGINES; AUTOMOTIVE
EMISSIONS; POWER TRAIN SYSTEMS

AVAILABILITY: NTIS (when available)

<479>

Northwestern University, Transportation Center
Library
ADDRESS: Evanston, IL 11973
TITLE: Bibliography for Transportation Energy
Conservation

Report No. ANL-76-XX-7, 64 p.
1976, May

SPONSOR: Argonne National Laboratory
KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION;
AUTOMOBILES; MASS TRANSPORTATION; AIRCRAFT;
TRUCKS; RAILROADS; BARGES; SHIPS; MARINE
TRANSPORTATION; RAIL TRANSPORTATION; AIR
TRANSPORTATION; PIPELINE TRANSPORTATION;
ENERGY CONSERVATION

AVAILABILITY: NTIS

<480>

Obinani, P.C.
Tri-State Regional Planning Commission
ADDRESS: New York, NY
TITLE: Analysis of User Response to the 1975 New
York City Transit-Fare Increase (Abridgment)

Paper published in Transportation Research Record
625, 12-14
1977

SPONSOR: U.S. Dept. of Transportation, Federal
Highway Administration; U.S. Dept. of
Transportation, Urban Mass Transportation
Administration; U.S. Dept. of Housing and
Urban Development
KEYWORDS: NEW YORK CITY; TRANSPORTATION SYSTEMS;
PASSENGER TRANSPORTATION; COSTS; MOBILITY;
SURVEYS; TABLES (DATA); ATTITUDES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

<481>

Odonol, A.R.; Kivestu, P.
Massachusetts Institute of Technology, Flight
Transportation Laboratory
ADDRESS: Cambridge, MA 02139
TITLE: A Handbook for the Estimation of Airside
Delays at Major Airports (Quick Approximation
Method)

Report No. NASA CR-2644, 81 p.
1976, June

SPONSOR: National Aeronautics and Space
Administration, Langley Research Center
KEYWORDS: HANDBOOKS; AIRPORTS; DELAYS; COMPUTER
PROGRAMS; GRAPHS (CHARTS); OPERATION;
CAPACITY; PEAK-HOUR DEMAND; TRAFFIC CONTROL

AVAILABILITY: NTIS

<482>

Odum, E.P.; Bramlett, G.A.; Ike, A.; Champlin,
R.; Ziemann, J.C.; Shugart, R.H.
Georgia, University of, Institute of Ecology;
Georgia, University of, Institute of
Community and Area Development
TITLE: Totality Indexes for Evaluating
Environmental Impacts of Highway Alternatives

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation,"
Transportation Research Record 561, 57-67
1976

KEYWORDS: ENVIRONMENTAL IMPACT; HIGHWAYS;
CONSTRUCTION; GEORGIA; PLANNING; STATE
GOVERNMENT; GOVERNMENT POLICIES; PUBLIC
OPINION

<482> CONT.
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave NW, Washington, DC 20418
 \$5.00 for Transportation Research Record 561

Oil and Gas Journal, 75(31), 51-54
 1977, August 1
 KEYWORDS: COAL; COAL GASIFICATION; ALTERNATE
 FUELS; LOW BTU GAS; U-GAS PROCESS; DIAGRAMS;
 FUEL OIL; NATURAL GAS; TABLES (DATA); ASHES;
 PILOT PLANTS; DEMONSTRATION PLANTS

<487>
 Olsen, P.J.; Westley, G.W.
 Oak Ridge National Laboratory, Energy Division,
 Regional and Urban Studies Section; Oak Ridge
 National Laboratory, Computer Sciences
 Division
 ADDRESS: Oak Ridge, TN 37830
 TITLE: Synthetic Measures of Truck Operating
 Times Between the Metropolitan Centers of BEA
 Economic Areas: 1950, 1960, and 1970, with
 Projections for 1980

<487>
 Paul, P.W.; Negreanu, M.J.
 Carnegie-Mellon University, Mechanical
 Engineering Dept.
 ADDRESS: Pittsburgh, PA
 TITLE: Applied Studies in Advanced Boiler
 Technology for Rankine Cycle Power Systems

Report No. ORNL-NSF-EP-78, 76 p.
 1975, January
 SPONSOR: National Science Foundation, BANN Program
 KEYWORDS: TRUCKS; URBAN AREAS; REGIONAL ANALYSIS;
 TRANSPORTATION; DISTANCE; VELOCITY; HIGHWAYS;
 TABLES (DATA); HISTORY; FORECASTING;
 INTERSTATE TRANSPORTATION; TRAVEL TIME;
 MARKET; GROWTH

Report No. COO-2633-3, v.-p.
 1978, February
 SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: BOILERS; RANKINE CYCLE POWER SYSTEMS;
 DESIGN; COMPARATIVE EVALUATIONS; TESTING;
 VAPOR GENERATORS; MODELS; SIMULATION; DIAGRAMS
 AVAILABILITY: NTIS

<484>
 Opinion Research Corp.
 ADDRESS: North Harrison Street, Princeton, NJ
 08540
 TITLE: Driving and Energy Conservation.
 Highlight Report. Volume XII

<488>
 Peffley, R.K.; Browning, L.R.; McCormack, M.C.;
 Hornberger, M.L.; Likos, W.E.; Pullman, B.
 Santa Clara University, Dept. of Mechanical
 Engineering
 ADDRESS: Santa Clara, CA 95053
 TITLE: Characterization and Research
 Investigation of Methanol and Methyl Fuels

Report No. PE-261162, FEA/D-76/483, 28 p.
 1976, March
 SPONSOR: Federal Energy Administration, Office of
 Energy Conservation and Environment
 KEYWORDS: ENERGY CONSERVATION; COMMUTING;
 SURVEYS; BEHAVIOR; AUTOMOBILE DRIVERS;
 REGIONAL ANALYSIS; ATTITUDES; ENERGY
 CONSUMPTION; CARPOOLING; GASOLINE; FUEL
 ECONOMY
 AVAILABILITY: NTIS

Report No. COO-1258-1, M.E. 77-1, 108 p.
 1977, August
 SPONSOR: U.S. Environmental Protection Agency,
 Motor Vehicle Emission Laboratory; Energy
 Research and Development Administration,
 Division of Transportation Energy Conservation
 KEYWORDS: ALTERNATE FUELS; METHANOL; COMPARATIVE
 EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL
 ECONOMY; GASOLINE; PERFORMANCE; COMPUTERIZED
 SIMULATION; GRAPHS (CHARTS); TABLES (DATA);
 TESTING
 AVAILABILITY: NTIS

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 Ossenbruggen, P.J.; Fishman, M.W.
 New Hampshire, University of, College of
 Engineering and Physical Sciences; Penney
 (J.C.) Co. Inc., Real Estate Dept.
 ADDRESS: UNH, Durham, NH; JCPC, New York, NY
 TITLE: Impact of Transit Line Extension on
 Residential Land Use

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 Penner, P.S.
 Illinois, University of, Center for Advanced
 Computation
 ADDRESS: Urbana, IL 61801
 TITLE: The Dollar, Energy and Labor Intensity of
 an Electric Commuter Railroad

Paper published in Transportation Research Record
 627, 10-13
 1977
 SPONSOR: U.S. Dept. of Transportation, Urban Mass
 Transportation Administration
 KEYWORDS: LAND USE; RESIDENTIAL SECTOR; RAPID
 TRANSIT SYSTEMS; TRANSPORTATION; REGULATIONS;
 LAND DEVELOPMENT
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.70 for Transportation Research Record 627

CAC Technical Memorandum No. 24, 13 p.
 1974, September
 KEYWORDS: LABOR INTENSITY; TRANSPORTATION
 SYSTEMS; RAIL TRANSPORTATION; ENERGY
 CONSUMPTION; FINANCIAL DATA; LOAD FACTOR;
 VEHICLE MILES TRAVELED; PASSENGER
 TRANSPORTATION; INTERSTATE TRANSPORTATION;
 ELECTRIC RAIL SYSTEMS

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 Patel, J.G.
 Institute of Gas Technology
 ADDRESS: Chicago, IL
 TITLE: Clean Fuel from Coal Is Goal of U-Gas
 Process

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 Permut, M.; Vuchic, V.R.
 Chicago Regional Transportation Authority;
 Pennsylvania, University of, Dept. of
 Engineering
 ADDRESS: CMTA, Chicago, IL; UP, Philadelphia, PA
 TITLE: Evaluation of Alternative Station Spacings
 for Rapid Transit Lines (abridgment)
 (Discussion)

Paper published in Transportation Research Record

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627, 13-17 (Discussion p. 16)

1977

SPONSOR: National Academy of Sciences,
Transportation Research BoardKEYWORDS: TRANSIT STATIONS; RAPID TRANSIT
SYSTEMS; SITE SELECTION; CHICAGO; COMPARATIVE
EVALUATIONSAVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 627

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Petracek, S.J.

Stanford Research Institute

ADDRESS: Menlo Park, CA 94025

TITLE: Energy Study of Railroad Freight
Transportation. Volume 3: Regulation and
Tariff

SRI Project TCU 5419, 101 p.

1977, August

SPONSOR: Energy Research and Development
AdministrationKEYWORDS: REGULATIONS; ENERGY CONSUMPTION;
LEGISLATION; EFFICIENCY; RAIL TRANSPORTATION;
CARGO TRANSPORTATION; GOVERNMENT POLICIES;
ECONOMICS; COSTS

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Petrocelli, A.W.; Kennedy, J.H.

Yardney Electric Corp.

ADDRESS: Pawcatuck, CT

TITLE: The Nickel-Zinc Battery: A Viable
Alternative for Vehicle PoweringPaper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 28 p.

1976, September

KEYWORDS: NICKEL-ZINC BATTERIES; ELECTRIC
VEHICLES; RESEARCH; PERFORMANCE; MODELS;
COMPARATIVE EVALUATIONS; LEAD-ACID BATTERIES;
GRAPHS (CHARTS)AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Petroleum Publishing Co.

ADDRESS: 1821 S. Sheridan Road, Tulsa, OK 74101

TITLE: Petroleum/2000

Oil and Gas Journal, 75(35), 75th Anniversary
Issue, 538 p.

1977, August

KEYWORDS: PETROLEUM; FORECASTING; EXPLORATION;
PRODUCTION; PIPELINES; NATURAL GAS LIQUIDS;
REFINING; PETROLEUM REFINING; PETROCHEMICALS;
PROCESSING; PETROLEUM INDUSTRY; ALTERNATE
FUELS; GRAPHS (CHARTS); HISTORY; LIQUEFIED
NATURAL GAS; INTERNATIONAL RELATIONS

AVAILABILITY: \$6.00

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Phoebe, C.H.

Gulf Research and Development Co.

ADDRESS: Pittsburgh, PA 15230

TITLE: Passenger Car Fuel Economy in Short Trip
Operation. Technical Progress Report for

Period May 1, 1977 - November 30, 1977

Report No. COO/4248-1, 23 p.

1977, November

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy ConservationKEYWORDS: FUEL ECONOMY; GASOLINE; HYDROGEN;
METHANOL; FUEL INJECTION SYSTEMS; STIRLING
ENGINES; GAS ENGINES; AUTOMOBILES;
COMPARATIVE EVALUATIONS; DRIVING CYCLE;
HIGHWAY TRANSPORTATION; ENERGY STORAGE;
VEHICLE TRIPS; TESTING; FUEL CONSUMPTION;
VEHICLE MILES TRAVELED; PHOTOGRAPHS;
AUTOMOBILE OCCUPANCY

AVAILABILITY: NTIS

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Pigman, J.G.; Agent, K.R.; Hayes, J.G.; Zegeer,
C.V.Kentucky Dept. of Transportation, Bureau of
HighwaysTITLE: Optimal Highway Safety Improvement
Investments by Dynamic ProgrammingReport presented at the 58th Annual Meeting of
the Transportation Research Board, published
in Transportation Research Record 585, 89-59
1976KEYWORDS: HIGHWAYS; SAFETY; PLANNING; MANAGEMENT;
INVESTMENTS; OPTIMIZATIONAVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101

Constitution Ave. NW, Washington, DC 20418

\$3.60 for Transportation Research Record 585

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Pipeline and Underground Utilities Construction

ADDRESS: 3314 Mercer St., Houston, TX 77027

TITLE: Pipeline and Underground Utilities
Construction: Annual Contractors Issue 1978Pipeline and Underground Utilities Construction,
33(7), v.p.

1978, June 15

KEYWORDS: CONSTRUCTION; EQUIPMENT; COMPRESSORS;
MANUFACTURERS; UTILITIES; ENERGY TRANSPORT;
SERVICES; ENGINEERING; USA; INTERNATIONAL
ORGANIZATIONS; UNDERGROUND FACILITIES; WATER
PIPELINES; PIPELINES; EXCAVATION

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Popular Science

ADDRESS: 380 Madison Ave., New York, NY 10017

TITLE: Motorcycling Handbook 1977

136 p.

1977, Spring

KEYWORDS: CAMPERS; RECREATION VEHICLES; MOTOR
HOMES; TRUCKS; TRAVEL; EQUIPMENT; SIZE; PRICES

AVAILABILITY: \$1.50

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Pouliot, H.W.; Robinson, C.W.; Delameter, W.R.
Sandia Laboratories

ADDRESS: Livermore, CA

TITLE: A Variable-Displacement Spark-Ignition
EngineFinal Report, Report No. SAND 77-8299, 108 p.
1978, JuneSPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy ConservationKEYWORDS: SPARK IGNITION ENGINES; VARIABLE
DISPLACEMENT ENGINES; EXHAUST RECIRCULATION

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SYSTEMS: AUTOMOTIVE EMISSIONS; FUEL ECONOMY;
MEASUREMENT; TESTING; DRIVING CYCLE; URBAN
TRANSPORTATION; MECHANICS; GRAPHS (CHARTS);
DIAGRAMS; HYDROCARBONS; NITROGEN OXIDES
AVAILABILITY: GPO, Stock No. 061-000-00108-5

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Powell, S.F., III; Rosenberg, W.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Wendall Square, Cambridge, MA 02142
TITLE: The Advisability of Regulating Electric
Vehicles for Energy Conservation

Report No. PB-260667, DOT-TSC-OST-76-37, v.p.
1976, August

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering
KEYWORDS: ELECTRIC VEHICLES; BATTERIES;
PERFORMANCE; LIFE-CYCLE COST; ENERGY
CONSERVATION; GOVERNMENT POLICIES; FUEL
CONSUMPTION; EFFICIENCY; TABLES (DATA);
GRAPHS (CHARTS); COMPARATIVE EVALUATIONS;
ECONOMICS; COSTS; VANS; REGULATIONS; INTERNAL
COMBUSTION ENGINES; ENERGY CONSUMPTION; MARKET
AVAILABILITY: NTIS

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Powell, J.D.; Hubbard, M.
Stanford University, Dept. of Aeronautics and
Astronautics
ADDRESS: Stanford, CA 94305
TITLE: Closed-Loop Control of Internal Combustion
Engine Exhaust Emissions

Report No. PB-239850, 63 p.
1974, February

SPONSOR: U.S. Dept. of Transportation, Office of
Systems Engineering, University Research
Program
KEYWORDS: AUTOMOTIVE EMISSIONS; INTERNAL
COMBUSTION ENGINES; FUEL-AIR RATIO; CONTROL
EQUIPMENT; DESIGN; COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

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Pozdena, R.J.
Stanford Research Institute
ADDRESS: 333 Ravenswood Avenue, Menlo Park, CA
94025
TITLE: Forecasts of Aircraft Activity by
Altitude, World Region, and Aircraft Type

Report No. FAA-ATP-76-18, Forecasts of Worldwide
Aviation Activity, 132 p.

1976, November
SPONSOR: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy
KEYWORDS: FORECASTING; AIRCRAFT; ECONOMETRIC
MODELS; REGIONAL ANALYSIS; OPERATING COSTS;
INTERNATIONAL TRAVEL; PASSENGER
TRANSPORTATION; TABLES (DATA); GROWTH; DATA
BASES; STATISTICS; CARGO TRANSPORTATION;
HISTORY; MODELS
AVAILABILITY: NTIS

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Pratt (R.H.) Associates Inc.
ADDRESS: 10400 Connecticut Avenue, Kensington, MD
20795

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TITLE: The Potential for Transit as an Energy
Saving Option

1975, November

SPONSOR: Federal Energy Administration
KEYWORDS: PUBLIC TRANSPORTATION; URBAN
TRANSPORTATION; ENERGY CONSUMPTION; ENERGY
CONSERVATION; VEHICLE MILES TRAVELED;
AUTOMOBILES; REGIONAL ANALYSIS; PASSENGER
TRANSPORTATION; GRAPHS (CHARTS); TABLES
(DATA); MODELS; EFFICIENCY; BALTIMORE
(MARYLAND); CHICAGO; SAN DIEGO; ALBUQUERQUE;
SOCIO-ECONOMIC FACTORS; MASS TRANSPORTATION;
GOVERNMENT POLICIES; BUSES (VEHICLES); RAIL
TRANSPORTATION; STATE ANALYSIS

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Presidential Task Force on Reform of Federal
Energy Administration Regulations
ADDRESS: Washington, DC
TITLE: Report of the Presidential Task Force on
Reform of Federal Energy Administration
Regulations. Volume 1 and Volume 2,
Appendices

1976, December

KEYWORDS: REGULATIONS; LEGISLATION; GOVERNMENT
POLICIES; HISTORY; PROPANE; NATURAL GAS; FUEL
OIL; PETROLEUM INDUSTRY; IMPORTS;
ALLOCATIONS; ENERGY SUPPLIES; PETROLEUM;
PRICES; COSTS; ENERGY SHORTAGES; REFINING;
LEGAL ASPECTS; US FEA; CONSUMERS; TABLES
(DATA)

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Public Technology Inc.; Urban Consortium for
Technology Initiatives, Transportation Task
Force
ADDRESS: 1140 Connecticut Avenue NW, Washington,
DC 20036
TITLE: Transportation Needs Summary

32 p.

1976, September
SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration; U.S. Dept. of
Transportation, Federal Highway Administration
KEYWORDS: TRANSPORTATION; RESEARCH; ASPHALTS;
TRANSPORTATION SYSTEMS; PARATRANSIT;
HIGHWAYS; BUSES (VEHICLES); PLANNING; MASS
TRANSPORTATION; AIR TRANSPORTATION; TRAFFIC
CONTROL

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Pucher, J.; Rothenberg, J.
Massachusetts Institute of Technology, Dept. of
Urban Studies and Planning
ADDRESS: Cambridge, MA 02139
TITLE: Pricing in Urban Transportation: A Survey
of Empirical Evidence on the Elasticity of
Travel Demand

Report No. MIT 76-014, 133 p.

1976, July

KEYWORDS: URBAN TRANSPORTATION; PRICES; RATES
(COSTS); MODELS; ELASTICITY (ECONOMICS);
GASOLINE; DEMAND (ECONOMICS); ENERGY
CONSERVATION; INCOME; TABLES (DATA); ENERGY
CONSUMPTION
AVAILABILITY: MIT, Center for Transportation
Studies, 77 Massachusetts Avenue, Cambridge,
MA 02139 \$6.00

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Pucher, J.R.

Massachusetts Institute of Technology, Dept. of
Urban Studies and Planning

ADDRESS: Cambridge, MA 02139

TITLE: Projections of 1980 Freight Demands for
Selected Midwestern Railroads

Report No. DOT-TST-76T-40, 130 p.

1976, September

SPONSOR: U.S. Dept. of Transportation, Office of
University Research

KEYWORDS: FORECASTING; RAIL TRANSPORTATION;

RAILROADS; MIDWESTERN STATES; CARGO

TRANSPORTATION; COSTS; TABLES (DATA); MAPS;

COMMODITIES; INPUT-OUTPUT ANALYSIS; REGIONAL

ANALYSIS; HISTORY

AVAILABILITY: NTIS

<507>

Purdue University, Institute for

Interdisciplinary Engineering Studies

ADDRESS: West Lafayette, IN

TITLE: Opportunity and Risk Assessment of the
Electric and Hybrid Vehicle Research,
Development and Demonstration Act of 1976Report No. HCP/H4250-01 (Previously issued as
COO-4250-1), 327 p.

1978, January

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; HYBRID

ELECTRIC-POWERED VEHICLES; COMMERCIALIZATION;

ENERGY DEMAND; COSTS; PERFORMANCE; TABLES

(DATA); ELECTRIC VEHICLE RANGE;

TRANSPORTATION; PETROLEUM; ENERGY

CONSERVATION; TECHNOLOGY ASSESSMENT;

INSTITUTIONAL FACTORS; SAFETY

AVAILABILITY: NTIS

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Pushkarev, N.S.; Zupan, J.M.

Regional Plan Association

ADDRESS: 235 East 45 Street, New York 10017

TITLE: Power for the MTA: An Examination of
Future Ridership, Service, and Electric Power
Requirements for Metropolitan Transportation
Authority Facilities

RPA Bulletin 126, 90 p.

1977, June

SPONSOR: New York State Power Authority

KEYWORDS: NEW YORK CITY; RAIL TRANSPORTATION;

ELECTRIC POWER DEMAND; EMPLOYMENT; COMMUTERS;

PUBLIC TRANSPORTATION; URBAN TRANSPORTATION;

AUTOMOBILES; REGIONAL ANALYSIS; PEAK-HOUR

DEMAND; ELECTRIC VEHICLES; GRAPHS (CHARTS);

RAPID TRANSIT SYSTEMS; TABLES (DATA);

PLANNING; EQUIPMENT; SUBWAYS; AIR

CONDITIONING; REGENERATIVE BRAKING; MASS

TRANSPORTATION

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Rabe, P.T.

Environmental Impact Center Inc.

ADDRESS: 55 Chapel Street, Newton, MA 02158

TITLE: Uncertainties in Estimates of Fleet
Average Fuel Economy: A Statistical
Evaluation

Report No. DOT-TSC-OST-77-32, 66 p.

1977, June

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology; U.S. Dept. of Transportation,
Transportation Systems CenterKEYWORDS: AUTOMOTIVE FLEETS; FUEL ECONOMY; FUEL
CONSUMPTION; TABLES (DATA); STRATIFICATION;
ESTIMATES; STATISTICAL ANALYSIS; TESTING
AVAILABILITY: NTIS

<510>

Rabe, P.T.

Environmental Impact Center Inc.

ADDRESS: 55 Chapel Street, Newton, MA 02158

TITLE: Study Design for a Method of Projecting
Vehicle Miles of Travel

Report No. DOT-TSC-OST-77-25, 56 p.

1977, August

SPONSOR: U.S. Dept. of Transportation,
Transportation Systems Center; U.S. Dept. of
Transportation, Office of the Secretary,
Office of the Assistant Secretary for Systems
Development and Technology, Office of Systems
EngineeringKEYWORDS: VEHICLE MILES TRAVELED; FORECASTING;
TRAVEL; AUTOMOBILES; MODELS; RESEARCH; DATA
ACQUISITION; ESTIMATES; COSTS

AVAILABILITY: NTIS

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Rabe, P.T.

Environmental Impact Center Inc.

ADDRESS: 55 Chapel Street, Newton, MA 02158

TITLE: Dynamic Models of the U.S. Automobile Fleet

Report No. DOT-TSC-OST-77-26, 46 p.

1977, August

SPONSOR: U.S. Dept. of Transportation,
Transportation Systems Center; U.S. Dept. of
Transportation, Office of the Secretary,
Office of the Assistant Secretary for Systems
Development and Technology, Office of Systems
EngineeringKEYWORDS: MODELS; SALES; COMPUTERIZED SIMULATION;
GASOLINE; PRICES; FORECASTING; DEMAND
(ECONOMICS); TRANSPORTATION; AUTOMOBILES;
PRICES; SIZE; OWNERS

AVAILABILITY: NTIS

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Raschbichler, R.G.

Scitran

ADDRESS: Box 5456, Santa Barbara, CA 93108

TITLE: Technical and Economical Considerations of
the Use of Self-Supporting Plastic Sandwich
Constructions in Electrical Vehicles

Report No. N76-14205, NASA-TT-F-16824, 15 p.:

Translation from Elektrotechnische

Zeitschrift Ausg. A, 94(11), 679-682

1975, December

SPONSOR: National Aeronautics and Space

Administration

KEYWORDS: ELECTRIC VEHICLES; PLASTICS; ECONOMIC
ANALYSIS; PRODUCTION; DESIGN

AVAILABILITY: NTIS

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Rechel, R.

TITLE: Transportation Policies and Energy
Conservation

An Issue Report, 71 p.

1976

KEYWORDS: TRANSPORTATION; ENERGY CONSERVATION;
GOVERNMENT POLICIES; TRANSPORTATION MODE
CHOICE; FUEL CONSUMPTION; REGULATIONS;
HIGHWAY TRANSPORTATION; SERVICES; CARGO

<513> COPT.

TRANSPORTATION; PUBLIC TRANSPORTATION; RAIL
TRANSPORTATION; URBAN TRANSPORTATION; AIR
TRANSPORTATION; WATER TRANSPORTATION;
PIPELINE TRANSPORTATION; ECONOMIC IMPACT;
EXPENDITURES
AVAILABILITY: The Conservation Foundation, 1717
Massachusetts Avenue, N.W., Washington, DC
20036

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Recker, W.W.; Golob, T.P.
California, University of, Institute for
Transportation Studies; General Motors Corp.,
Research Laboratories, Transportation and
Urban Analysis Dept.
ADDRESS: CM, Irvine, CA; GENCRL, Warren, MI 48090
TITLE: A Non-Compensatory Model of Transportation
Behavior Based on Sequential Consideration of
Attributes

Report No. GMR-2621, 23 p.

1978, January 10

KEYWORDS: TRANSPORTATION; MODELS; BEHAVIOR;
DECISIONS; ATTITUDES; SHOPPING TRIPS; URBAN
TRANSPORTATION; VEHICLES

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Recreation Vehicle Industry Association
ADDRESS: Box 204, 14650 Lee Rd., Chantilly, VA
22021
TITLE: RV Financial Facts

Quarterly publication, approximately 4 p.

KEYWORDS: FINANCIAL DATA; RECREATION VEHICLES;
PRODUCTION; SALES; INDUSTRIES; INFORMATION

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Recreation Vehicle Industry Association
ADDRESS: P.O. Box 204, 14650 Lee Road, Chantilly,
VA 22021
TITLE: Recreation Vehicle Figures, Facts and
Forecasts: 1961 - 1981

Paper presented at seminar held at the Essex
House Hotel, New York, NY, on March 31, 1977,
11 p.

1977

SPONSOR: Mitchell, Hutchins Inc.

KEYWORDS: RECREATION VEHICLES; FORECASTING;
TRAILERS; CAMPERS; MOTOR HOMES; TABLES
(DATA); SALES

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Recreation Vehicle Industry Association,
Marketing and Public Relations Departments
ADDRESS: 14650 Lee Road, Chantilly, Va 22020
TITLE: Facts and Trends 1977: 5th Annual
Historical Review of Production and Shipments
of the Recreation Vehicle Industry

Annual publication, 9 p.

1978

KEYWORDS: RECREATION; FORECASTING; RECREATION
VEHICLES; INDUSTRIES; PRICES; PRODUCTION;
SALES; MARKET; TABLES (DATA); GRAPHS
(CHARTS); ENERGY DEMAND; MOTOR HOMES;
TRAILERS; CAMPERS; TRUCKS; REGIONAL ANALYSIS

<518>

Reed, H.W.; Roos, M.; Wolfe, M.; DiGregorio, R.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: A Study of the Costs and Benefits
Associated with AVH

Report No. PB-266293, UMTA-NA-06-0041-77-1,
DOT-TSC-UMTA-77-5, 256 p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration, Office of
Technology Development and Deployment
KEYWORDS: TRANSPORTATION; TECHNOLOGY; COSTS;
MAINTENANCE; OPERATING COSTS; BUSES
(VEHICLES); TAXICABS; BENEFIT COST ANALYSIS;
TABLES (DATA); GRAPHS (CHARTS); ENERGY
CONSERVATION; MONITORING; AUTOMATIC VEHICLE
MONITORING; URBAN TRANSPORTATION; AUTOMOTIVE
FLEETS

AVAILABILITY: NTIS

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Regional Plan Association
ADDRESS: 235 East 45 Street, New York, NY 10017
TITLE: Where Transit Works: Urban Densities for
Public Transportation

Regional Plan News No. 99, 24 p.

1976, August

SPONSOR: Tri-State Regional Planning Commission;
U.S. Dept. of Transportation, Urban Mass
Transportation Administration; Ford
Foundation; Rockefeller Foundation
KEYWORDS: URBAN AREAS; PUBLIC TRANSPORTATION;
COSTS; BUSES (VEHICLES); RAPID TRANSIT
SYSTEMS; COMMUTERS; COMMUNITY DEVELOPMENT;
LAND USE; PHOTOGRAPHS; GRAPHS (CHARTS)

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Regueiro, J.P.
John Deere Product Engineering Center
ADDRESS: Moline, IL 61265
TITLE: Engine Developments and Agricultural
Equipment Fuel Consumption Trends

Paper No. 760853, published in SAE SP-411, 1-10
1976, August

SPONSOR: Society of Automotive Engineers Inc.,
Milwaukee Section
KEYWORDS: FARM EQUIPMENT; TRACTORS; AGRICULTURE;
DIESEL ENGINES; FUEL CONSUMPTION; DESIGN;
PRODUCTION; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 for SAE SP-411

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Reichman, S.
Hebrew University
ADDRESS: Jerusalem, Israel
TITLE: Conceptual Problems in Evaluation of
Travel Time

Paper published in Transportation Research Record
587, 24-29

1976

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: TRAVEL TIME; ECONOMIC ANALYSIS;
CONSUMERS; BEHAVIOR; RESEARCH
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.40 for Transportation Research Record 587

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Reichman, S.; Stopher, P.R.
Hebrew University; Cornell University
ADDRESS: HW, Jerusalem, Israel; CU, Ithaca, NY
TITLE: Applications of Value of Travel Time to
Travel Demand Estimation

Paper published in Transportation Research Record
587, 6-11

1976

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: TRAVEL TIME; URBAN TRANSPORTATION;
MODELS; VEHICLE TRIPS; COSTS; INTERCITY
TRANSPORTATION

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Avenue. NW, Washington, DC 20418
\$2.40 for Transportation Research Record 587

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Reilly, J.
Capital District Transportation Authority
ADDRESS: Albany, NY
TITLE: Transit Costs During Peak and Off-Peak
Hours

Paper presented at the 1977 Annual Meeting of the
Transportation Research Board, held in
Washington, DC, January 1977

1977, January

KEYWORDS: COSTS; PATES (COSTS); DEMAND
(ECONOMICS); MASS TRANSPORTATION

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Reilly, J.J.; Wiswall, R.H.; Waide, C.H.
Brookhaven National Laboratory, Dept. of Applied
Science
ADDRESS: Upton, NY 11973
TITLE: Motor Vehicle Storage of Hydrogen Using
Metal Hydrides. Final Report

Report No. TEC-75/001, 88 p.
1974, October

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HYDROGEN; HYDROGEN STORAGE; HYDRIDES;
AUTOMOBILES; MAGNESIUM HYDRIDES; ALUMINUM
HYDRIDES; DESIGN; STABILITY; COMPARATIVE
EVALUATIONS; TABLES (DATA); DIAGRAMS;
ALTERNATE FUELS
AVAILABILITY: NTIS

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Reister, D.B.
Institute for Energy Analysis
ADDRESS: Oak Ridge, TN 37830
TITLE: The Total Energy Cost of Freight Transport

Report No. ORAU/IEA(M)-77-7, v.p.
1977, February

SPONSOR: Energy Research and Development
Administration
KEYWORDS: COSTS; ENERGY CONSUMPTION; CARGO
TRANSPORTATION; NET ENERGY; RAIL
TRANSPORTATION; WATER TRANSPORTATION; TRUCKS;
INTERCITY TRANSPORTATION; AIR TRANSPORTATION;
INPUT-OUTPUT ANALYSIS; COMPARATIVE EVALUATIONS

<526>

Renshaw, V.; Friedenber, M.L.; Levine, B.
U.S. Dept. of Commerce, Bureau of Economic
Analysis

ADDRESS: Washington, DC
TITLE: Work-Force Migration Patterns, 1970-76

Reprint from Survey of Current Business, February
1978, 17-20
1978, February

KEYWORDS: MIGRATION; EMPLOYMENT; REGIONAL
ANALYSIS; SOCIO-ECONOMIC FACTORS; EARNINGS;
TABLES (DATA); LABOR MIGRATION; URBAN AREAS;
STATE ANALYSIS; RURAL AREAS

<527>

Rice, P.L.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Energy Conditions in the South

Report No. ORNL/TN-5568, 338 p.

1976, December

SPONSOR: Energy Research and Development
Administration

KEYWORDS: ENERGY DEMAND; ENERGY SUPPLIES; ENERGY
RESOURCES; TABLES (DATA); MAPS; NATURAL GAS;
PETROLEUM; COAL; HYDROELECTRIC POWER; NUCLEAR
POWER; PETROLEUM PRODUCTS; ALABAMA; ARKANSAS;
FLORIDA; GEORGIA; KENTUCKY; LOUISIANA;
MISSISSIPPI; NORTH CAROLINA; OKLAHOMA; SOUTH
CAROLINA; TENNESSEE; TEXAS; VIRGINIA; WEST
VIRGINIA; SOUTHERN STATES; REGIONAL ANALYSIS;
STATE ANALYSIS
AVAILABILITY: NTIS

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Rice, P.L.
Oak Ridge National Laboratory, Energy Division,
Economic Analysis Section
ADDRESS: Oak Ridge, TN 37830
TITLE: 1975 Energy Conditions in the South

Report No. ORNL/TN-6190, 254 p.

1978, March

SPONSOR: U.S. Dept. of Energy
KEYWORDS: SOUTHERN STATES; STATE ANALYSIS; ENERGY
SUPPLIES; NATURAL GAS; PETROLEUM; COAL;
ENERGY RESERVES; ENERGY CONSUMPTION; REGIONAL
ANALYSIS; HYDROELECTRIC POWER; RESIDENTIAL
SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR;
TRANSPORTATION; ELECTRIC UTILITIES;
PRODUCTION; TABLES (DATA); ENERGY DEMAND;
ELECTRIC POWER DEMAND
AVAILABILITY: NTIS

<529>

Rice, R.G.
Toronto, University of, Dept. of Civil Engineering
ADDRESS: Toronto, Canada
TITLE: Evaluation of Road and Transit System
Requirements for Alternative Urban Forms

Paper prepared for presentation at the Annual
Meeting of the Transportation Research Board,
29 p.

1978, January

KEYWORDS: URBAN AREAS; LAND USE; MODELS;
TRANSPORTATION; PLANNING; TRAVEL; VEHICLE
TRIPS

<530>

Riddell, P.R.; Oliver, R.C.; Reichenbach, R.E.
Institute for Defense Analyses, Science and
Technology Division
ADDRESS: 400 Army-Navy Drive, Arlington, VA 22202
TITLE: DoD Energy R & D. Part II: Military

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Fuel Options--Performance and R & D
Implications

Report No. AD/A 042272, IDA Paper P-1116, 108 p.
1977, March

SPONSOR: U.S. Dept. of Defense, Defense Advanced
Research Projects Agency; U.S. Dept. of
Defense, Office of the Director of Defense
Research and Engineering

KEYWORDS: MILITARY; FUELS; CONSUMPTION; ENERGY
MANAGEMENT; FORECASTING; PETROLEUM; SYNTHETIC
FUELS; AVIATION FUELS; TABLES (DATA); OIL
SHALE; HYDROCARBONS; ALTERNATE FUELS;
RESEARCH; DEVELOPMENT; ENGINES; TRANSPORTATION

AVAILABILITY: NTIS

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Rieber, M.; Soo, S.L.; King, P.; King, Y.T.;
Leung, T.; Wu, H.; Wu, J.

Illinois, University of, Center for Advanced
Computation

ADDRESS: Urbana, IL 61801

TITLE: Comparative Coal Transportation Costs: An
Economic and Engineering Analysis of Truck,
Belt, Rail, Barge and Coal Slurry and
Pneumatic Pipelines. Volumes 1-8

CAC Document No. 223; Report Nos. PB-274379, 93
p. for Volume 1; PB-274380, 114 p. for Volume
2; PB-274381, 58 p. for Volume 3; PB-274382,
96 p. for Volume 4; PB-274383, 384 p. for
Volume 5; PB-274384, 65 p. for Volume 6;
PB-274385, 78 p. for Volume 7; PB-274386, 15
p. for Volume 8

1977, August

SPONSOR: U.S. Dept. of Interior, Bureau of Mines;
Federal Energy Administration

KEYWORDS: COAL; TRANSPORTATION; COSTS; ECONOMICS;
TRUCKS; RAIL TRANSPORTATION; SLURRIES;
BARGES; PIPELINE TRANSPORTATION; PNEUMATIC
TRANSPORT; CONVEYORS; COMPARATIVE
EVALUATIONS; MODELS; CAPITAL COSTS; OPERATING
COSTS; TABLES (DATA); GRAPHS (CHARTS);
WATERWAY TRANSPORTATION; REGIONAL ANALYSIS;
ENGINEERING; CARGO TRANSPORTATION

AVAILABILITY: NTIS

<532>

Rinde, J.A.; Chiao, T.T.; Stone, R.G.

Lawrence Livermore Laboratory

ADDRESS: University of California, Livermore, CA
94550

TITLE: Composite Fiber Flywheel for Energy Storage

Paper published in 8th National SAMPE (Society
for the Advancement of Materials and Process
Engineering) Technical Conference. Volume
8. Bicentennial of Materials, pp. 25-43;
conference held October 12-14, 1976 in
Seattle, Washington

1976, October

SPONSOR: Energy Research and Development
Administration

KEYWORDS: FLYWHEELS; ENERGY STORAGE; COMPOSITE
MATERIALS; FIBERS; DESIGN; DEVELOPMENT;
UTILIZATION; HYBRID ELECTRIC-POWERED
VEHICLES; LAWRENCE LIVERMORE LABORATORY;
PHYSICAL PROPERTIES; RESEARCH PROGRAMS;
TABLES (DATA); GRAPHS (CHARTS)

<533>

Ring, S.L.; Brewer, K.A.; Butler, D.L.
Iowa State University, Civil Engineering and
Engineering Research Institute

ADDRESS: Ames, IA

TITLE: Evaluation of Interaction Between Rural
Regional Transportation and Energy

Availability

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Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation and
Demand," Transportation Research Record 561,
12-22

1976

SPONSOR: U.S. Dept. of Transportation, Office of
University Research

KEYWORDS: RURAL AREAS; RURAL TRANSPORTATION; RAIL
TRANSPORTATION; FOOD; TRANSPORTATION;
SOCIO-ECONOMIC FACTORS; RAILROADS; MAPS;
IOWA; ELECTRIC POWER GENERATION; AGRICULTURE;
REGIONAL ANALYSIS; LIFE STYLE; STATE
GOVERNMENT; GOVERNMENT POLICIES

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

<534>

Rishavy, E.A.; Hamilton, S.C.; Ayers, J.A.;
Keane, M.A.

General Motors Corp., Chevrolet Engineering;
General Motors Corp., Research Laboratories

ADDRESS: Warren, MI 48090

TITLE: Engine Control Optimization for Best Fuel
Economy with Emission Constraints

Paper No. 770075, presented at the Society of
Automotive Engineers' International
Automotive Engineering Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 28-March 4, 1977, 20 p.

1977

SPONSOR: Society of Automotive Engineers

KEYWORDS: FUEL ECONOMY; COMPUTER PROGRAMS;
AUTOMOTIVE EMISSIONS; TESTING; ENGINES;
CATALYTIC CONVERTERS; TABLES (DATA);
COMPARATIVE EVALUATIONS; PERFORMANCE; GRAPHS
(CHARTS); OPTIMIZATION; AUTOMOTIVE EMISSION
CONTROL

AVAILABILITY: Society of Automotive Engineers,
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<535>

Roan, V.P.

Florida, University of, Dept. of Mechanical
Engineering

ADDRESS: Gainesville, FL

TITLE: The Design and Development of a
Hybrid-Electric Urban Transit Vehicle

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 25 p.

1976, September

SPONSOR: Florida Dept. of Transportation

KEYWORDS: ELECTRIC VEHICLES; URBAN
TRANSPORTATION; BUSES (VEHICLES); HYBRID
ELECTRIC-POWERED VEHICLES; DESIGN;
COMPUTERIZED SIMULATION; DRAG; DIESEL
ENGINES; TESTING; ROAD TESTS; AERODYNAMICS;
GRAPHS (CHARTS)

AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<536>

Roberts, P.O.

Massachusetts Institute of Technology, Center for
Transportation Studies

ADDRESS: Cambridge, MA 02139

<536>

<536> COST.

TITLE: Factors Influencing the Demand for Goods Movement

CTS Report No. 75-16, Working Paper No. 1, 34 p.
1975, September

SPONSOR: U.S. Dept. of Transportation, Office of University Research

KEYWORDS: CARGO TRANSPORTATION; MARKET; DISTRIBUTION; COSTS; CONSUMERS; DEMAND (ECONOMICS); PURCHASING; GRAPHS (CHARTS); INVENTORIES; TABLES (DATA); ECONOMIC ANALYSIS; MODELS; SYSTEMS ANALYSIS; COMMODITIES

<537>

Roberts, P.O.

Massachusetts Institute of Technology, Center for Transportation Studies

ADDRESS: Cambridge, MA 02139

TITLE: Forecasting Freight Flows Using a Disaggregate Freight Demand Model

CTS Report No. 76-1, 26 p.

1976, January

SPONSOR: Federal Energy Administration

KEYWORDS: FORECASTING; CARGO TRANSPORTATION; MATHEMATICAL MODELS; COSTS; TARIFFS; COMMODITIES; DEMAND (ECONOMICS); PLANNING; RATES (COSTS)

<538>

Roberts, P.O.

Massachusetts Institute of Technology, Center for Transportation Studies

ADDRESS: Cambridge, MA 02139

TITLE: Developing Freight Origin-Destination Data for Use in Freight Planning

Report No. CTS 76-3, 18 p.

1976, February

SPONSOR: U.S. Dept. of Transportation, Transportation Systems Center

KEYWORDS: CARGO TRANSPORTATION; SHIPMENTS; DATA ACQUISITION; COMMODITIES; SURVEYS; MODELS; DATA COMPILATION; COSTS; TABLES (DATA); INFORMATION; PLANNING; DEMAND (ECONOMICS); DISTANCE

<539>

Roberts, P.O.; Terziew, M.N.; Kneafsey, J.T.; Wilson, L.B.; Samuelson, R.D.; Chiang, U.S.; Deephouse, C.V.

Massachusetts Institute of Technology, Center for Transportation Studies

ADDRESS: Cambridge, MA 02139

TITLE: Analysis of the Incremental Cost and Trade-offs Between Energy Efficiency and Physical Distribution Effectiveness in Intercity Freight Markets

CTS Report No. 76-14, 174 p.

1976, November

SPONSOR: Federal Energy Administration, Office of Transportation Policy Research

KEYWORDS: INTERCITY TRANSPORTATION; CARGO TRANSPORTATION; COSTS; MODELS; FORECASTING; TRUCKS; RAIL TRANSPORTATION; TRAVEL TIME; DELAYS; TARIFFS; FUEL CONSUMPTION; WATERWAY TRANSPORTATION; SHIPMENTS; FUEL ECONOMY; TONNAGE; TABLES (DATA); COMMODITIES

<540>

Robertson, B.; Baugarten, G.P.

U.S. Dept. of Commerce, National Bureau of

Standards, Institute of Basic Standards
ADDRESS: Washington, DC 20234

TITLE: Evaluation of Automotive Fuel Flowmeters

Report No. PB-268582, NBS TN 943, 99 p.

1977, June

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Systems Development and Technology

KEYWORDS: AUTOMOBILES; FUEL ECONOMY; MEASURING INSTRUMENTS; FUEL CONSUMPTION; TESTING; DIAGRAMS

AVAILABILITY: NTIS; also available from GPO, Stock No. 003-003-01799-0

<541>

Roche, G.; Lago, A.M.

RMC Research Corp.

ADDRESS: Bethesda, MD

TITLE: Intercity Passenger Transportation: Mode/Energy Conservation. Volume II: Analysis

Report No. PB-250884, RMC-UR-286, 321 p.

1975, December

SPONSOR: Council on Environmental Quality; Federal Energy Administration

KEYWORDS: ENERGY CONSERVATION; PASSENGER TRANSPORTATION; INTERCITY TRANSPORTATION; MODELS; FORECASTING; SOCIO-ECONOMIC FACTORS; TRAVEL; NOISE (SOUND); AIR POLLUTION; ACCIDENTS; LAND USE; OPERATING COSTS; SPEED LIMITS; GASOLINE; TAXES

AVAILABILITY: NTIS

<542>

Roche, G.; Lago, A.M.

RMC Research Corp.

ADDRESS: 7910 Woodmont Avenue, Bethesda, MD 20014

TITLE: Intercity Passenger Transportation: Mode/Energy Conservation. Volume I: Executive Summary

Report No. PB-250883, RMC Report UR-286, 30 p.

1975, December

SPONSOR: Council on Environmental Quality; Federal Energy Administration

KEYWORDS: INTERCITY TRANSPORTATION; GOVERNMENT POLICIES; MODELS; FUEL ECONOMY; TAXES; ENERGY CONSUMPTION; ECONOMICS; STATISTICS; VEHICLE MILES TRAVELED; FORECASTING; TRANSPORTATION MODE CHOICE

AVAILABILITY: NTIS

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Rockwell International, Space Division

ADDRESS: Canoga Park, CA

TITLE: Economic and Technical Feasibility Study for Energy Storage Flywheels

Report No. ERDA 76-65, 436 p.

1975, December

SPONSOR: Energy Research and Development Administration, Division of Conservation Research and Technology

KEYWORDS: FEASIBILITY; FLYWHEELS; ENERGY STORAGE; TABLES (DATA); TECHNOLOGY; FORECASTING; ECONOMICS; UTILIZATION; TRANSPORTATION; ELECTRIC UTILITIES; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; RESEARCH; DESIGN; RESIDENTIAL SECTOR; HYBRID ELECTRIC-POWERED VEHICLES; ELECTRIC VEHICLES; INSTITUTIONAL FACTORS; SAFETY; GRAPHS (CHARTS); DIAGRAMS

<544>
Roelke, R.J.; McAllin, K.L.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Cold-Air Performance of the
Compressor-Drive Turbine of the Department of
Energy Baseline Automobile Gas-Turbine Engine

Report No. DOE/NASA/1011-78/25, NASA TN-78894,
E-9480, 22 p.

1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: GAS TURBINE ENGINES; PERFORMANCE; US
DOE; AUTOMOBILES; AERODYNAMICS; VELOCITY;
TESTING; ENGINES; EFFICIENCY; EQUIPMENT;
MEASUREMENT; PRESSURE MEASUREMENT; GRAPHS
(CHARTS); DIAGRAMS; TEMPERATURE; TORQUE
AVAILABILITY: NTIS

<545>
Rohy, D.A.; Wachman, J.P.; Duffy, T.E.
International Harvester Co., Solar Division
ADDRESS: 2200 Pacific Highway, San Diego, CA
92138
TITLE: Automotive Storage of Hydrogen Using
Modified Magnesium Hydrides

Report No. TEC-75/002, 55 p.

1975, July
SPONSOR: U.S. Environmental Protection Agency,
Office of Air and Waste Management, Office of
Mobile Source Air Pollution Control,
Alternative Automotive Power Systems
Division; Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HYDROGEN; AUTOMOBILES; MAGNESIUM
HYDRIDES; ENERGY STORAGE; ALTERNATE FUELS;
MAGNESIUM ALLOYS; RESEARCH; HYDRIDES;
REFUELING; TABLES (DATA); GRAPHS (CHARTS);
HYDROGEN STORAGE
AVAILABILITY: NTIS

<546>
Rosenberg, N.; Bufferd, A.; Coonley, P.;
Hamilton, W.; Kaiser, R.; Raber, P.T.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Institutional Factors in Transportation
Systems and Their Potential for Bias Toward
Vehicles of Particular Characteristics

Report No. HCP/H1043-01, COMS/1043-1, 428 p.
1978, February

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES;
INSTITUTIONAL FACTORS; LEGISLATION; TAXES;
REGULATIONS; ELECTRIC VEHICLES; TRAFFIC
CONTROL; GOVERNMENT POLICIES; AUTOMOTIVE
INDUSTRY; ELECTRIC POWER; BATTERY CHARGING;
VEHICLE PARKING; TABLES (DATA); REGIONAL
ANALYSIS; PRICES; RATES (COSTS); PETROLEUM;
URBAN AREAS
AVAILABILITY: NTIS

<547>
Rosenqvist, J.K.G.; Gunnarsson, S.G.; Lundholm,
S.G.
Kö United Stirling (Sweden) AB & Co.
ADDRESS: Sweden
TITLE: The Development of a 150 kW (200 HP)
Stirling Engine for Medium Duty Automotive
Application--A Status Report

Paper No. 770081, presented at the Society of
Automotive Engineers' International
Automotive Engineering Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 28-March 4, 1977, 12 p.

1977
SPONSOR: Society of Automotive Engineers
KEYWORDS: STIRLING ENGINES; HEAT EXCHANGERS;
PERFORMANCE; COSTS; DIESEL ENGINES; GRAPHS
(CHARTS); COMPARATIVE EVALUATIONS; FUEL
CONSUMPTION; FUEL ECONOMY; TRUCKS; DIAGRAMS;
CONTROL EQUIPMENT
AVAILABILITY: Society of Automotive Engineers,
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<548>
Rosenthal, S.R.; Herniter, J.D.; Welan, U.P.
Boston University, School of Management
ADDRESS: Boston, MA 02215
TITLE: Model for Cost-Effective Maintenance of
Rail Transit Vehicles in Urban Mass Transit
Systems

Paper published in Transportation Research Record
627, 21-28

1977
SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration
KEYWORDS: MAINTENANCE; COST ANALYSIS; SCHEDULING;
RAIL TRANSPORTATION; MODELS; PLANNING
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 627

<549>
Ross, J.A.; Wooldridge, G.A.
Rohr Industries Inc., Advanced Transportation
Systems
ADDRESS: Chula Vista, CA 92010
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0592-78/1, NASA CR-135340,
RNR-78-035, 222 p.

1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; National
Aeronautics and Space Administration, Lewis
Research Center
KEYWORDS: ELECTRIC VEHICLES; DESIGN; POWER TRAIN
SYSTEMS; PERFORMANCE; ELECTRIC VEHICLE RANGE;
DRIVING CYCLE; EFFICIENCY; AUTOMOTIVE
ENGINEERING; TESTING; SIMULATION
AVAILABILITY: NTIS

<550>
Rowlett, B.W.; Murry, R.
Airessearch Manufacturing Co.
ADDRESS: Torrance, CA
TITLE: Near-Term Electric Vehicle Program: Phase
1, Final Report

Report No. SAN/1213-1, 259 p.
1977, August

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; DESIGN; PERFORMANCE;
SAFETY; BATTERIES; TABLES (DATA); GRAPHS
(CHARTS); DIAGRAMS; ENERGY STORAGE;
ECONOMICS; COSTS; DEVELOPMENT; MODELS;
SIMULATION; LIFE-CYCLE COST; TRANSPORTATION
AVAILABILITY: NTIS

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Ruscitto, D.; McCormick, J.; Gray, S.
Mechanical Technology Inc.
ADDRESS: Latham, NY 12110
TITLE: Hydrodynamic Air Lubricated Compliant
Surface Bearing for an Automotive Gas Turbine
Engine. I - Journal Bearing Performance

Report No. CONS/9427-1, NASA-CR-135368, 148 p.
1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration
KEYWORDS: TESTING; AUTOMOTIVE ENGINES; GAS
TURBINE ENGINES; BEARINGS; DESIGN;
PERFORMANCE; TEMPERATURE
AVAILABILITY: NTIS

<552>

Sacco, J.P.; Hajj, M.M.
South Carolina, University of, Dept. of
Government and International Studies; South
Carolina, University of, Traffic and
Transportation Center
ADDRESS: Columbia, SC 29208
TITLE: Impact of the Energy Shortage on Travel
Patterns and Attitudes

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation and
Demand," Transportation Research Record 561,
1-11

1976

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration
KEYWORDS: ENERGY SHORTAGES; TRAVEL; ATTITUDES;
AUTOMOBILES; SOUTH CAROLINA; PUBLIC
TRANSPORTATION; GASOLINE; AVAILABILITY;
SERVICES; ENERGY CONSERVATION; SURVEYS;
VELOCITY; BEHAVIOR; PRICES; TABLES (DATA);
BUSES (VEHICLES); CARPOOLING
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

<553>

Samuel, J.M.G.
Advanced Vehicle Systems Ltd.
ADDRESS: United Kingdom
TITLE: U.K. Electric Vehicle Development
Programmes

Paper No. 780088, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

1978

KEYWORDS: UNITED KINGDOM; ELECTRIC VEHICLES;
BATTERIES; DESIGN; VANS; LEAD-ACID BATTERIES;
RESEARCH; PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Sanders, D.B.; Reymen, T.A.; Bhatt, K.
De Leuw, Cather and Co.; Urban Institute
ADDRESS: Washington, DC
TITLE: Characteristics of Urban Transportation
Systems: A Handbook for Transportation
Planners

V.P.

1978, May

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration; U.S. Dept. of

Transportation, Federal Highway Administration
KEYWORDS: URBAN TRANSPORTATION; PLANNING; RAIL
TRANSPORTATION; BUSES (VEHICLES); RAPID
TRANSIT SYSTEMS; HIGHWAY TRANSPORTATION;
VELOCITY; CAPACITY; OPERATING COSTS; ENERGY
CONSUMPTION; EMISSIONS; ACCIDENTS; REGIONAL
ANALYSIS; COMPARATIVE EVALUATIONS; GRAPHS
(CHARTS); TABLES (DATA)

<555>

Sasaki, B.R.
Executive Office of the President, Office of
Management and Budget
ADDRESS: Washington, DC
TITLE: Predicting Transporter's Choice of Mode

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
the Transportation Research Record 577,
entitled "Transportation Characteristics of
Truck, Rail, and Water Freight," 13-18

1976

KEYWORDS: FORECASTING; RAIL TRANSPORTATION; CARGO
TRANSPORTATION; BARGES; COSTS; COMPUTERIZED
SIMULATION; DEMAND (ECONOMICS); MODELS; OHIO
RIVER; TRAFFIC; STATISTICS; TRANSPORTATION
MODE CHOICE

<556>

Sasser, J.; Emerson, J.; Garcia, A.
Tetra Tech Inc.
ADDRESS: 1911 N. Fort Myer Drive, Arlington, VA
22209
TITLE: Assessment and Forecast of Marine Fuels
Price and Availability

Report No. COM-75-1054, NA-RD-920-75021, v.p.
1975, April 12

SPONSOR: U.S. Dept. of Commerce, Maritime
Administration
KEYWORDS: FORECASTING; WATER TRANSPORTATION;
FUELS; PRICES; AVAILABILITY; MARINE
TRANSPORTATION; RESIDUAL OILS; TANKER SHIPS;
CARGO TRANSPORTATION; FUEL CONSUMPTION;
ALTERNATE FUELS; PETROLEUM; DEMAND
(ECONOMICS); SUPPLY (ECONOMICS); ENERGY
DEMAND; ENERGY SUPPLIES
AVAILABILITY: NTIS

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Schimpeler, C.C.; Corradino, J.C.; Jarvis, J.J.;
Unger, V.E.; Stout, R.W.
Schimpeler-Corradino Associates; Georgia
Institute of Technology; U.S. Dept. of
Transportation
TITLE: Optimum Staging of Projects in a Highway
Plan

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in Transportation Research Record 585, 25-34

1976

KEYWORDS: HIGHWAYS; PLANNING; FORECASTING;
TRAFFIC; MODELS; TABLES (DATA); SCHEDULING;
CONSTRUCTION
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.60 for Transportation Research Record 585

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Schink, G.R.; Loxley, C.J.
Wharton EPA Inc.
ADDRESS: One University City, 4025 Chestnut St.,

<558> CONT.

Philadelphia, PA 19104
 TITLE: An Analysis of the Automobile Market:
 Modeling the Long-Run Determinants of the
 Demand for Automobiles. Volume I. The
 Wharton EPA Automobile Demand Model

155 p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary; U.S. Dept. of Transportation,
 Transportation Systems Center

KEYWORDS: ECONOMETRIC MODELS; MARKET;
 AUTOMOBILES; DEMAND (ECONOMICS); FORECASTING;
 SALES; VEHICLE REGISTRATIONS; FUEL ECONOMY;
 SIMULATION; GOVERNMENT POLICIES; COSTS; STOCKS

AVAILABILITY: NTIS

<559>

Schink, G.R.; Loxley, C.J.

Wharton EPA Inc.

ADDRESS: One University City, 4025 Chestnut
 Street, Philadelphia, PA 19104

TITLE: An Analysis of the Automobile Market:
 Modeling the Long-Run Determinants of the
 Demand for Automobiles. Volume II:
 Simulation Analysis Using the Wharton E.P.A.
 Automobile Demand Model

Volume II of 3 volumes, v.p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary; U.S. Dept. of Transportation,
 Transportation Systems Center

KEYWORDS: AUTOMOBILES; MARKET; DEMAND
 (ECONOMICS); SIMULATION; ECONOMETRIC MODELS;
 FORECASTING; GASOLINE; PRICES; TABLES (DATA);
 INCOME; TAXES; GOVERNMENT POLICIES; OPPC

AVAILABILITY: NTIS

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Schink, G.R.; Loxley, C.J.

Wharton EPA Inc.

ADDRESS: One University City, 4025 Chestnut
 Street, Philadelphia, PA 19104

TITLE: An Analysis of the Automobile Market:
 Modeling the Long-Run Determinants of the
 Demand for Automobiles. Volume III:
 Appendices to the Wharton E.P.A. Automobile
 Demand Model

Volume III of 3 volumes, 261 p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary; U.S. Dept. of Transportation,
 Transportation Systems Center

KEYWORDS: ECONOMETRIC MODELS; AUTOMOBILES;
 FORECASTING; DEMAND (ECONOMICS); TABLES (DATA)

AVAILABILITY: NTIS

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Schmitt, F.W.; Wagner, C.B.

Chrysler Corp.

ADDRESS: Detroit, MI

TITLE: Baseline Gas Turbine Development Program.
 Eighteenth Quarterly Progress Report

Report No. COO-2749-18, 261 p.

1977, April 30

SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation

KEYWORDS: GAS TURBINE ENGINES; DESIGN;
 EFFICIENCY; FUEL ECONOMY; GRAPHS (CHARTS);
 TABLES (DATA); DIAGRAMS; VEHICLES;
 PERFORMANCE; DEVELOPMENT

AVAILABILITY: NTIS

<562>

Schwartz, H.J.

National Aeronautics and Space Administration,
 Lewis Research Center

ADDRESS: Cleveland, OH

TITLE: The Computer Simulation of Automobile Use
 Patterns for Defining Battery Requirements
 for Electric Cars

Paper presented at the Fourth International
 Electric Vehicle Symposium (sponsored by the
 Electric Vehicle Council and the
 International Union of Producers and
 Distributors of Electrical Energy), held in
 Dusseldorf, Germany, August 31 - September 2,
 1976, 15 p.

1976, September

KEYWORDS: ELECTRIC VEHICLES; BEHAVIOR;
 COMPUTERIZED SIMULATION; TRAVEL; AUTOMOBILES;
 BATTERIES; UTILIZATION

AVAILABILITY: Electric Vehicle Council, 90 Park
 Ave., New York, NY 10016 \$1.50

<563>

Schwartz, H.J.

National Aeronautics and Space Administration,
 Lewis Research Center

ADDRESS: Cleveland, OH 44135

TITLE: New Batteries and Their Impact on Electric
 Vehicles

Report No. ERDA/NASA 1011/77/3, NASA TM X-7362,
 paper presented at the International Electric
 Vehicle Exposition, held in Chicago,
 Illinois, April 26-29, 1977, v.p.

1977

SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; ELECTRIC VEHICLE
 RANGE; COSTS; BATTERIES; PERFORMANCE;
 COMPARATIVE EVALUATIONS

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Schwartz, H.J.

National Aeronautics and Space Administration,
 Lewis Research Center

ADDRESS: Cleveland, OH 44135

TITLE: The Requirements for Batteries for
 Electric Vehicles

Report No. N76-21701, NASA TM X-71916, Technical
 Paper presented at Twenty-Seventh Power
 Sources Symposium, Atlantic City, New Jersey,
 June 21-24, 1976, 7 p.

1976, June 24

KEYWORDS: BATTERIES; ELECTRIC VEHICLES; MARKET;
 PETROLEUM; FUEL CONSUMPTION; COMMERCIALIZATION

AVAILABILITY: NTIS

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Schwartz, H.L.

Miami University

ADDRESS: Miami, OH

TITLE: Marketing Approach Using Product Diffusion
 Knowledge to Measure Consumer Transit
 Attitudes (Abridgment)

Paper published in Transportation Research Record
 625, 4-6

1977

SPONSOR: National Academy of Sciences,
 Transportation Research Board

KEYWORDS: PUBLIC TRANSPORTATION; MARKETING;

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<565> CONT.

CONSUMERS; BUSES (VEHICLES); ATTITUDES;
QUESTIONNAIRES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

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Schwarz, R.
ASL Engineering Inc.
ADDRESS: 895 South Fairview Avenue, Goleta, CA
93017
TITLE: Near-Term Electric Vehicle Program.
Phase 1, Final Report

Report No. SAN/1295-1, 304 p.

1977, August

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; DESIGN; BATTERIES;
PERFORMANCE; TABLES (DATA); GRAPHS (CHARTS);
DIAGRAMS; LIFE-CYCLE COST; COSTS; EFFICIENCY;
ENERGY STORAGE; URBAN TRANSPORTATION; ENERGY
CONSUMPTION; ENERGY CONSERVATION; WEIGHT
AVAILABILITY: NTIS

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Seda, B.
Research Institute for Rotating Electrical
Machines
ADDRESS: Brno, Czechoslovakia
TITLE: Development of Electric Vehicles in
Czechoslovakia

Paper presented at the Fourth International
Electric Vehicle Symposium, held in
Dusseldorf, Germany, August 31 - September 2,
1976, 12 p.

1976, September

SPONSOR: Electric Vehicle Council; International
Union of Producers and Distributors of
Electrical Energy

KEYWORDS: ELECTRIC VEHICLES; DEVELOPMENT;
CZECHOSLOVAKIA; BUSES (VEHICLES); CONTROL
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Sevian, W.A.; Salzano, F.J.
Brookhaven National Laboratory
ADDRESS: Upton, NY
TITLE: Systems Study of Two Synthetic
Transportation Fuel Options

Report No. BNL-20071, CONF-741013-4, paper
presented at the 146th Meeting of the
Electrochemical Society, New York, New York,
Oct. 17, 1974, 10 p.

1974

SPONSOR: Energy Research and Development
Administration

KEYWORDS: ALTERNATE FUELS; COAL; HYDROGEN;
METHANE; SYNTHETIC FUELS; FORECASTING;
MODELS; ENVIRONMENTAL IMPACT; TRANSPORTATION
AVAILABILITY: NTIS

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Shaughnessy, A.E.
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue, Washington, DC
20418

TITLE: Railroad Electrification: The Issues

Transportation Research Board Special Report 180,
88 p.

1977

KEYWORDS: RAIL TRANSPORTATION; RAILROADS;
ELECTRIC RAIL SYSTEMS; CONFERENCES;
EQUIPMENT; COSTS; ELECTRIC POWER DEMAND;
FINANCING; PLANNING; CAPITAL COSTS;
MAINTENANCE; ECONOMIC ANALYSIS
AVAILABILITY: \$3.60

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Shaw, H.L.; Wood, R.K.
Logistics Management Institute
ADDRESS: Washington, DC
TITLE: Volumes and Transportation Costs of Fossil
Fuels Shipped Between Census Regions

Report No. BNL-21995, 50 p.

1976, October

SPONSOR: Brookhaven National Laboratory, National
Center for Analysis of Energy Systems,
Economic Analysis Division; Energy Research
and Development Administration, Administrator
for Planning, Analysis, and Evaluation

KEYWORDS: PETROLEUM; COSTS; COAL; TRANSPORTATION;
NATURAL GAS; REGIONAL ANALYSIS; ENERGY
CONSUMPTION; MODELS; ENERGY SYSTEMS;
SIMULATION; ENERGY SUPPLIES; GRAPHS (CHARTS);
SUPPLY (ECONOMICS)
AVAILABILITY: NTIS

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Shelton, E.H.
Energy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: Bartlesville, OK
TITLE: Motor Gasolines, Winter 1976-77

Report No. BERC/PPS-77/3, 89 p.

1977, June

KEYWORDS: GASOLINE; SURVEYS; TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION; UNLEADED
AUTOMOTIVE FUELS; OCTANE; MAPS; MARKETING;
TRENDS; PHYSICAL PROPERTIES
AVAILABILITY: NTIS

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Shelton, E.H.
U.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Diesel Fuel Oils, 1977

Report No. BERC/PPS-77/5, 38 p.

1977, November

KEYWORDS: DIESEL FUELS; FUEL OIL; TABLES (DATA);
GRAPHS (CHARTS); REGIONAL ANALYSIS; SURVEYS;
CHEMICAL PROPERTIES; CHEMICAL COMPOSITION;
TESTING
AVAILABILITY: NTIS

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Shelton, E.H.
U.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Motor Gasolines, Summer 1977

Report No. BERC/PPS-78/1, 90 p.

1978, January

KEYWORDS: GASOLINE; SURVEYS; TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION; UNLEADED

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AUTOMOTIVE FUELS; OCTANE; MAPS; MARKETING;
TRENDS; PHYSICAL PROPERTIES
AVAILABILITY: NTIS

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Shelton, E.M.
U.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Aviation Turbine Fuels, 1977

Report No. BERC/PPS-78/2, 13 p.
1978, May

KEYWORDS: AVIATION FUELS; JET ENGINE FUELS;
COMPARATIVE EVALUATIONS; STATISTICS; CHEMICAL
PROPERTIES
AVAILABILITY: NTIS

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Sherrer, R.W.
U.S. Dept. of Transportation, Federal Highway
Administration, Highway Statistics Division,
Office of Highway Planning
ADDRESS: Washington, DC
TITLE: Road User and Property Taxes on Selected
Motor Vehicles: 1973

72 p.
1973

KEYWORDS: ROADS; PROPERTY VALUES; TAXES;
VEHICLES; HIGHWAYS; MOTORCYCLES; AUTOMOBILES;
NTIS (VEHICLES); TRUCKS; TABLES (DATA);
GRAPHS (CHARTS); STATE GOVERNMENT; MAPS
AVAILABILITY: GPO \$0.90, Stock No. 5002-00098

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Shonka, D.B.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Characteristics of Automotive Fleets in
the United States: 1966-1977

Report No. ORNL/TN-6449 Special, 49 p.
1978, September

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOMOTIVE FLEETS; AUTOMOBILES;
INVENTORIES; PURCHASING; FUEL ECONOMY;
OWNERSHIP; SURVEYS; TABLES (DATA); SIZE;
VEHICLE REGISTRATIONS; VEHICLE MILES
TRAVELED; CHARACTERISTICS
AVAILABILITY: NTIS

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Shonka, D.B.; Loebl, A.S.; Patterson, P.D.;
O'Connor, T.P.; Ogle, W.C.; Rose, A.B.;
Greene, D.L.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Transportation Energy Conservation Data
Book: Edition 2

Report No. ORNL-5320, 459 p.

1977, October

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ENERGY CONSERVATION; HIGHWAY
TRANSPORTATION; AIR TRANSPORTATION; RAIL
TRANSPORTATION; MARINE TRANSPORTATION;
PIPELINE TRANSPORTATION; STATISTICS; TABLES

<573>

(DATA); GRAPHS (CHARTS); VEHICLES;
REGULATIONS; ENERGY CONSUMPTION; DEMAND
(ECONOMICS); FUEL ECONOMY; FUEL CONSUMPTION;
AUTOMOBILES; ENERGY INTENSITY; TRAVEL; ENERGY
DEMAND; PASSENGER TRANSPORTATION; AUTOMOTIVE
FLEETS; PETROLEUM; SALES; PUBLIC
TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE
REGISTRATIONS; VEHICLE MILES TRAVELED;
FORECASTING; GOVERNMENT POLICIES; ENERGY
SUPPLIES; WATER TRANSPORTATION
AVAILABILITY: NTIS

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Silberman, J.B. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Value of Travel Time

Transportation Research Record 587, 41 p.
1976

KEYWORDS: TRAVEL TIME; TRANSPORTATION; VEHICLE
TRIPS; PRICES; PLANNING; MODELS; PASSENGER
TRANSPORTATION; COSTS; INTERCITY
TRANSPORTATION; BEHAVIOR; USERS; ECONOMIC
ANALYSIS; BENEFIT COST ANALYSIS; COST
EFFECTIVENESS; TRAFFIC; RESEARCH; MOBILITY
AVAILABILITY: \$2.40

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Silberman, J.B. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation Energy Conservation and
Demand

Transportation Research Record 561, 6 reports
prepared for the 54th Annual Meeting of the
Transportation Research Board, 71 p.

1976

KEYWORDS: TRANSPORTATION; ENERGY CONSERVATION;
ENERGY DEMAND; DEMAND (ECONOMICS);
CONFERENCES; MEETINGS; URBAN TRANSPORTATION;
ATTITUDES; ENERGY SHORTAGES; RURAL AREAS;
COMMUTING; NEW JERSEY; GASOLINE; OWNERSHIP;
ENVIRONMENTAL IMPACT; TABLES (DATA)
AVAILABILITY: \$5.00

<580>

Silence, S.M.; Chesshire, L.M.
U.S. Dept. of Transportation, Federal Highway
Administration
ADDRESS: Washington, DC
TITLE: Reevaluation of Ground Access to Airports

Paper presented at the 52nd Annual Meeting of the
Highway Research Board, published in Highway
Research Record No. 439, 19-27

1973

SPONSOR: National Academy of Sciences, National
Research Council, Highway Research Board
KEYWORDS: AIRPORTS; HIGHWAY TRANSPORTATION;
TRAVEL TIME; PEAK-HOUR DEMAND; VELOCITY;
URBAN TRANSPORTATION; URBAN AREAS; DISTANCE;
GRAPHS (CHARTS)

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.00 for Highway Research Record No. 439

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Simpson and Curtin; Booz, Allen Applied Research Inc.
 ADDRESS: 58C, 1346 Chestnut Street, Philadelphia, PA 19107; B-A, 4733 Bethesda Ave., Bethesda, MD 20014
 TITLE: Transbus Public Testing and Evaluation Program

Report No. PB-251882, UMTA-IT-06-0025-76-1, 245 p.
 1976, January
 SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration
 KEYWORDS: TRANSPUS; TESTING; BUSES (VEHICLES); PUBLIC OPINION; QUESTIONNAIRES; SURVEYS; TABLES (DATA); TRANSPORTATION DISADVANTAGED; PHOTOGRAPHS; PASSENGER TRANSPORTATION
 AVAILABILITY: NTIS

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Skinner, L.E.

U.S. Dept. of Transportation, Federal Highway Administration
 TITLE: Comparative Costs of Urban Transportation Systems

Final Report, 100 p.
 1978, June

KEYWORDS: COSTS; URBAN TRANSPORTATION; TRANSPORTATION SYSTEMS; COMPARATIVE EVALUATIONS; TRAVEL TIME; PLANNING; TRANSPORTATION MODE CHOICE; TABLES (DATA); GRAPHS (CHARTS)

AVAILABILITY: GPO, Stock No. 050-001-00137-3

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Smith, J.R.; Tracy, J.C.; Potter, D.S.
 General Motors Corp., Research Laboratories, Physics Dept., Environmental Activities Staff
 ADDRESS: Warren, MI
 TITLE: Tire Rolling Resistance - A Speed Dependent Contribution

Paper No. 780255, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 6 p.

1978

KEYWORDS: TIRES; VELOCITY; MODELS; FUEL ECONOMY; AUTOMOBILES; FRICTION; WEAR

AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Sobel, R.L.; Batchelder, J.H.
 Multisystems Inc., Transportation Systems Division
 ADDRESS: Cambridge, MA
 TITLE: Strategy For Implementing Integrated Regional Transit

Paper published in Transportation Research Record 625, 27-31

1977

SPONSOR: U.S. Dept. of Transportation, Research and Development Policy Analysis Division
 KEYWORDS: URBAN TRANSPORTATION; PUBLIC TRANSPORTATION; PLANNING; OPERATING COSTS; MOBILITY; PUBLIC OPINION

AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$3.20 for Transportation Research Record 625

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Society of Automotive Engineers Inc.
 ADDRESS: 400 Commonwealth Dr., Warrendale, PA 15096
 TITLE: Automotive Fuel Economy (Selected SAE Papers 1965 - 1975)

Progress in Technology Series, Volume 15, 314 p.
 1976

KEYWORDS: AUTOMOBILES; FUEL ECONOMY; TESTING; FUEL CONSUMPTION; UTILIZATION; OPERATION; DESIGN; LUBRICANTS; GASOLINE; BIBLIOGRAPHIES

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Society of Automotive Engineers Inc.
 ADDRESS: 400 Commonwealth Drive, Warrendale, PA 15096
 TITLE: Engineering Know-How in Engine Design. Part 24: Economy in Engine Performance

Report No. SAE SP-411, Off-Highway Vehicle Meeting, Milwaukee Wisconsin, September 13-16, 1976, 54 p.

1976, August

SPONSOR: Society of Automotive Engineers, Milwaukee Section

KEYWORDS: AUTOMOTIVE ENGINES; AUTOMOTIVE ENGINEERING; FUEL CONSUMPTION; FUEL ECONOMY; DESIGN; AUTOMOTIVE EMISSIONS; FARM EQUIPMENT; DIESEL ENGINES; GRAPHS (CHARTS); DIAGRAMS; SYNTHETIC FUELS; AUTOMOTIVE EMISSION CONTROL; DYNAMOMETERS; TABLES (DATA); TRACTORS; LUBRICATING OILS

<587>

Sokolsky, S.
 Aerospace Corp., Energy and Resources Division
 ADDRESS: 2350 E. El Segundo Blvd., El Segundo, CA 90245
 TITLE: Alternative Policies for Effecting Intercity Energy Use

12 p.

1974, October 3

KEYWORDS: PLANNING; TRANSPORTATION; ENERGY CONSERVATION; INTERCITY TRANSPORTATION; TABLES (DATA); SIMULATION; ENERGY CONSUMPTION; GOVERNMENT POLICIES; BUSES (VEHICLES); RAIL TRANSPORTATION; AUTOMOBILES; AIR TRANSPORTATION; RAPID TRANSIT SYSTEMS; SUBSIDIES; TAXES

<588>

Soltis, R.F.
 National Aeronautics and Space Administration, Lewis Research Center
 ADDRESS: Cleveland, OH 44135
 TITLE: A Cycle Timer for Testing Electric Vehicles

Report No. DOE/NASA/1011-78/27, NASA TN-78934, E-9677, Technical Paper presented at the Fifth International Electric Vehicle Symposium sponsored by the Electric Vehicle Council, Philadelphia, PA, October 2-5, 1978, 5 p.

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVING CYCLE; VELOCITY; EQUIPMENT

AVAILABILITY: NTIS

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Soltis, R.F.; Bozek, J.M.; Denington, R.J.; Dustin, M.O.

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National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Baseline Tests of the Kordesch Hybrid
Passenger Vehicle

Report No. NASA TN-73769, CON/1011-14, 68 p.
1978, June

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; TESTING;
ACCELERATION; ELECTRIC VEHICLE RANGE;
PASSENGER TRANSPORTATION; FUEL ECONOMY; SPARK
IGNITION ENGINES; PERFORMANCE; DIAGRAMS;
GRAPHS (CHARTS); ENERGY CONSUMPTION
AVAILABILITY: NTIS

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Soltis, R.F.; Dustin, M.O.; Sargent, M.B.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Results of Baseline Tests of the Lucas
Lisousine

Report No. NASA TM X-73609, 27 p.
1977, January

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVE TRAIN
SYSTEMS; BATTERIES; PASSENGER TRANSPORTATION;
DRIVING CYCLE; PERFORMANCE; MILEAGE; ENERGY
CONSUMPTION; STANDARDS; PHOTOGRAPHS; GRAPHS
(CHARTS); ELECTRIC VEHICLE RANGE
AVAILABILITY: NTIS

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Southerd, L.G.; Horner, A.L.
U.S. Dept. of Energy, Energy Information
Administration
ADDRESS: Washington, DC 20241
TITLE: International Petroleum Annual: 1976

Report No. DOE/EIA-0042, 34 p.
1978, June

KEYWORDS: PETROLEUM; PETROLEUM PRODUCTS;
PRODUCTION; INTERNATIONAL ANALYSIS; IMPORTS;
EXPORTS; PRICES; NATURAL GAS; TABLES (DATA);
PETROLEUM REFINING; ENERGY DEMAND; OIL WELLS;
CAPACITY

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Southwest Research Institute; Cameron Engineers;
Standard Oil Co. of Ohio; SOHIO Petroleum Co.
ADDRESS: SRI, San Antonio, TX; CE, Denver, CO;
SOHIO, Grand Junction, CO
TITLE: Identification of Probable Automotive
Fuels Composition: 1985-2000 and Executive
Summary

Report No. MCP/W3684-01/1, 218 p.; Report No.
MCP/W3684-01/2 for Executive Summary, 55 p.
1978, May

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; RAW MATERIALS;
AUTOMOTIVE FUELS; DIESEL FUELS; MARKET;
TRANSPORTATION; ENERGY FLOW; TABLES (DATA);
FORECASTING; ENERGY DEMAND; SYNTHETIC
PETROLEUM; REFINING; PROPERTIES; OIL SHALE;
ALCOHOL FUELS; AUTOMOBILES; METHANOL; COAL;
PRODUCTION; HYDROCARBONS; INTERNAL COMBUSTION
ENGINES; OCTANE; GASOLINE

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Spanna, G.W.; Hooper, W.J.; Bonham, C.W.; Mason,
R.H.; Grocki, J.J.; Hall, C.H.
Metrics Inc.
ADDRESS: 290 Interstate North, Suite 116,
Atlanta, GA 30339
TITLE: Evaluation of Maritime Industry Energy
Consumption Profiles

93 p.

1977, December

SPONSOR: U.S. Dept. of Commerce, Maritime
Administration
KEYWORDS: ENERGY CONSUMPTION; ENERGY
CONSERVATION; SURVEYS; MARINE TRANSPORTATION;
CARGO TRANSPORTATION; WATERWAY
TRANSPORTATION; PORTS; TABLES (DATA); SHIPS;
CONSTRUCTION; INDUSTRIES; WATER
TRANSPORTATION; GREAT LAKES; EFFICIENCY
AVAILABILITY: NTIS

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Sparks, W.D.
Air-Conditioning and Refrigeration Institute
ADDRESS: Arlington, VA
TITLE: Conservation: The Centerpiece

ASHRAE Journal, 19(5), 22-24
1977, May

KEYWORDS: ENERGY CONSERVATION; TRANSPORTATION;
PRICES; PETROLEUM; NATURAL GAS; ENERGY
SHORTAGES; CONSUMERS; GOVERNMENT POLICIES;
ELASTICITY (ECONOMICS); BUILDINGS; ENERGY
CONSUMPTION; STANDARDS; ATTITUDES; PUBLIC
OPINION; INCENTIVES; INSULATION; APPLIANCES

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Spenny, C.H.; Clarke, J.M.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: A Computer Program (POWREQ) for Power
Requirements of Mass Transit Vehicles

Report No. UMTA-MA-06-0044-77-2,
DOT-TSC-UMTA-76-2, 68 p.

1977, August

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration, Office of
Technology Development and Deployment
KEYWORDS: COMPUTER PROGRAMS; MASS TRANSPORTATION;
COMPUTERIZED SIMULATION; ENERGY CONSUMPTION
AVAILABILITY: NTIS

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Springer, K.J.
Southwest Research Institute, Automotive Research
Division, Dept. of Emissions Research
ADDRESS: San Antonio, TX
TITLE: Transportation, Trucks and Fuel
Conservation

Paper presented at the Fourth Interamerican
Conference on Materials Technology, Hotel
Macuto-Sheraton, Caracas, Venezuela, June
29-July 4, 1975, 7 p.

1975

KEYWORDS: TRANSPORTATION; TRUCKS; ENERGY
CONSERVATION; FUEL CONSUMPTION; VELOCITY;
WEIGHT; LOAD FACTOR; SAFETY; EMISSIONS;
BEHAVIOR; DIESEL FUELS; GASOLINE

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SRI International (formerly Stanford Research Institute)
ADDRESS: 333 Ravenswood Avenue, Menlo Park, CA 94025

TITLE: Fuel and Energy Price Forecasts: Quantities and Long-Term Marginal Prices. Final Report. Volume I

Report No. EPRI EA-433, Research Project 759-1, 171 p.

1977, September

SPONSOR: Electric Power Research Institute
KEYWORDS: FUELS; PRICES; FORECASTING; COAL; URANIUM; PETROLEUM; PETROLEUM PRODUCTS; NATURAL GAS; SYNTHETIC GAS; SYNTHETIC PETROLEUM; ELECTRIC POWER GENERATION; RESIDENTIAL SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION; ENERGY MODELS; NUCLEAR FUELS; GRAPHS (CHARTS); TABLES (DATA); ENERGY DEMAND

<598>

Stanford Research Institute
ADDRESS: 333 Ravenswood Avenue, Menlo Park, CA 94025

TITLE: Fuel and Energy Price Forecasts: Final Report. Volume II - Data Base

Report No. EPRI EA-433, Research Project 759-1, 289 p.

1977, February

SPONSOR: Electric Power Research Institute
KEYWORDS: ENERGY SUPPLIES; ENERGY MODELS; ENERGY BALANCE; DEMAND (ECONOMICS); PRICES; COSTS; TABLES (DATA); GRAPHS (CHARTS); RESIDENTIAL SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION; FUELS; ENERGY CONVERSION; ECONOMICS

AVAILABILITY: Electric Power Research Institute, 3412 Hillview Ave., Palo Alto, CA 94304

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Stanford Research Institute
ADDRESS: Menlo Park, CA 94025
TITLE: Long Term Energy Alternatives Propulsion: Synthetic Fuel Versus Battery/Electric System

Report No. PB-262513, NSF/PRA-7516162/1/6, v.p. 1976, August

SPONSOR: National Science Foundation, Division of Policy Research and Analysis
KEYWORDS: AUTOMOBILES; SYNTHETIC FUELS; ALTERNATE FUELS; ELECTRIC VEHICLES; FORECASTING; COMPARATIVE EVALUATIONS; FUEL CONSUMPTION; LIFE-CYCLE COST; ENVIRONMENTAL IMPACT; COAL LIQUEFACTION; BATTERIES; TABLES (DATA); PRODUCTION; UTILIZATION; AUTOMOBILE TRANSMISSIONS

AVAILABILITY: NTIS

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Stearns, H.D.; Cooper, E.; Schaeffer, K.H.
U.S. Dept. of Transportation, Transportation Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: An Analysis of Transportation Planning Effectiveness

Report No. UMTA-NA-09-9003-77-1, 78 p.

1977, July

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Transportation Planning, Office of Planning Assistance
KEYWORDS: PLANNING; TRANSPORTATION; URBAN TRANSPORTATION; REGIONAL ANALYSIS; TABLES (DATA); TRANSPORTATION SYSTEMS; LOCAL

GOVERNMENT

AVAILABILITY: NTIS

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Stenger, A.J.; Cunningham, W.H.J.
Pennsylvania State University, Pennsylvania Transportation Institute
ADDRESS: University Park, PA 16802
TITLE: An Experiment in Freight Modal Choice: Delineating the Rail-Truck Interface

Report No. PB-263156, DOT-TST-76-83, 145 p. 1976, May

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of University Research
KEYWORDS: CARGO TRANSPORTATION; RAILROADS; HIGHWAY TRANSPORTATION; TRUCKS; COMMODITIES; RAIL TRANSPORTATION; PLANNING; MODELS; MARKET; COMPETITION; RATES (COSTS); TONNAGE; DISTANCE; TABLES (DATA); REGIONAL ANALYSIS; QUESTIONNAIRES; SURVEYS

AVAILABILITY: NTIS

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Stopher, P.R.
Cornell University, Dept. of Environmental Engineering
ADDRESS: Ithaca, NY
TITLE: Applications of Value of Travel Time to Economic Evaluation of Transport Investment Alternatives

Paper published in Transportation Research Record 587, 19-23

1976

SPONSOR: National Academy of Sciences, Transportation Research Board
KEYWORDS: TRAVEL TIME; ECONOMIC ANALYSIS; BENEFIT COST ANALYSIS; COST EFFECTIVENESS; PLANNING
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$2.40 for Transportation Research Record 587

<603>

Stopher, P.R.
Cornell University, Dept. of Environmental Engineering
ADDRESS: Ithaca, NY
TITLE: Derivation of Values of Time from Travel Demand Models

Paper published in Transportation Research Record 587, 12-18

1976

SPONSOR: National Academy of Sciences, Transportation Research Board
KEYWORDS: MODELS; BEHAVIOR; TRAVEL TIME; VEHICLE TRIPS; PASSENGER TRANSPORTATION
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$2.40 for Transportation Research Record 587

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Straszheim, H.R.
Maryland, University of
TITLE: Airline Demand Functions in the North Atlantic and Their Pricing Implications

Journal of Transport Economics and Policy, May 1978, 179-195

1978, May

KEYWORDS: AIR TRANSPORTATION; ECONOMETRIC MODELS;

<604> CONT.

PRICES; ELASTICITY (ECONOMICS); TRAVEL; MARKET

AUTOMOBILES; EFFICIENCY; TABLES (DATA);
FORECASTING; ENERGY POLICY; LEGISLATION

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<605>

Stucker, J.P.; Kirkwood, T.F.
Rand Corp.
ADDRESS: 1700 Main Street, Santa Monica, CA 90406
TITLE: The Economic Impact of Automobile Travel
Cost Increases on Households

Report No. R-1842-NSF/FEA, 81 p.

1977, July

SPONSOR: National Science Foundation; Federal
Energy Administration

KEYWORDS: ENERGY CONSUMPTION; ENERGY DEMAND;
GOVERNMENT POLICIES; GASOLINE; AIR QUALITY;
FAMILY LIFE; COSTS; SOCIO-ECONOMIC FACTORS;
INCOME; VEHICLE TRIPS; COST ESTIMATES;
INSURANCE; TABLES (DATA); SURVEYS;
AUTOMOBILES; OPERATING COSTS; ELASTICITY
(ECONOMICS); OCCUPANCY; GRAPHS (CHARTS);
MAINTENANCE; FUEL ECONOMY

<609>

Systems Design Concepts Inc.; Brookhaven National
Laboratory, National Center for Analysis of
Energy Systems, Policy Analysis Division
ADDRESS: SDC, 9 Rector St., New York, NY 10006;
BNL, Upton, NY 11973

TITLE: Transportation Energy Consumption and
Conservation Policy Options in the NortheastBNL Northeast Energy Perspectives Study, Report
No. BNL 50554, 163 p.

1976, April

SPONSOR: Energy Research and Development
Administration, Division of Biomedical and
Environmental Research

KEYWORDS: TRANSPORTATION; ENERGY CONSUMPTION;
ENERGY CONSERVATION; FORECASTING; TABLES
(DATA); REGIONAL ANALYSIS; GOVERNMENT
POLICIES; NORTHEASTERN STATES; ENERGY DEMAND
AVAILABILITY: NTIS

<606>

Sato, P.L.; Kilpatrick, H.E., Jr.
Purvis Systems Inc., Washington Operations
ADDRESS: 3286 M Street NW, Washington, DC 20007
TITLE: Statistical Report on Urban Energy
Consumption

Report No. OST-TPI-76-02, 72 p.

1976, June

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of Transportation
Economic Analysis

KEYWORDS: CARGO TRANSPORTATION; ENERGY
CONSUMPTION; GOVERNMENT POLICIES; URBAN
AREAS; ENERGY RESOURCES; PRICES; PETROLEUM;
US DOT; STATISTICS; TABLES (DATA); COAL;
NATURAL GAS; ELECTRIC POWER; RESIDENTIAL
SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION
AVAILABILITY: NTIS

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Tacina, R.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Experimental Evaluation of
Premixing-Prevaporizing Fuel Injection
Concepts for a Gas Turbine Catalytic Combustor

Report No. CONS/1011-18, NASA TM-73755, paper
presented at the Winter Annual Meeting,
American Society of Mechanical Engineers,
Atlanta, Georgia, November 27 - December 2,
1977, v.p.

1977, August

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: FUEL INJECTION SYSTEMS; ATOMIZATION;
EVAPORATION; DIAGRAMS; GRAPHS (CHARTS); GAS
TURBINES; CATALYSTS; COMBUSTORS; AUTOMOBILES
AVAILABILITY: NTIS

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Sweeney, J.L.
Stanford University, Dept. of
Engineering-Economic Systems
ADDRESS: Stanford, CA 94305
TITLE: U.S. Gasoline Demand: An Economic
Analysis of the EPCA New Car Efficiency
Standard

51 p.

1977, July

SPONSOR: Energy Research and Development
Administration, Office of Conservation
Planning Policy

KEYWORDS: GASOLINE; FUEL ECONOMY; AUTOMOBILES;
EFFICIENCY; STANDARDS; FUEL CONSUMPTION;
AUTOMOTIVE INDUSTRY; PRICES; GOVERNMENT
POLICIES; ECONOMIC ANALYSIS; ELASTICITY
(ECONOMICS); GRAPHS (CHARTS); TAXES; CONSUMERS

<611>

Tap, R.; Kaprelian, A.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Transportation Statistical Data and
Information

Report No. PB-265457, DOT-TSC-OST-76-60, 226 p.

1976, December

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans and International
Affairs, Office of Transportation Systems
Analysis and Information

KEYWORDS: TRANSPORTATION; STATISTICS; GOVERNMENT
POLICIES; INFORMATION; AVAILABILITY
AVAILABILITY: NTIS

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Sweeney, J.L.
Data Resources Inc., Energy Group
ADDRESS: Lexington, MA
TITLE: The Impact of the President's Proposed
Gasoline Tax and Gas-Guzzler Tax on Gasoline
Consumption

Data Resources Inc. Energy Bulletin, 6-11

1977, August

KEYWORDS: GASOLINE; TAXES; FUEL CONSUMPTION;

<612>

Tausig, W.H.
Tausig Associates
ADDRESS: Canaan Street Village, Canaan, NH 03741
TITLE: British Airways - An Analysis of
Efficiency and Cost Levels

Report No. PB-268060, OST-PS-70292, 66 p.

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<612> CONT.

1977, May

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Air Transportation Policy Staff

KEYWORDS: EFFICIENCY; COSTS; TABLES (DATA);

UNITED KINGDOM; STATISTICS; AIR

TRANSPORTATION; REVENUE; COMPARATIVE

EVALUATIONS; PASSENGER TRANSPORTATION;

OPERATING COSTS; CAPITAL COSTS; CARGO

TRANSPORTATION; USA; PRODUCTION; FINANCIAL

DATA; EARNINGS; PROFITS

AVAILABILITY: NTIS

<613>

Teal, R.; Wood, E., Jr.; Loudon, W.

Tufts University, Program in Urban, Social, and Environmental Policy

ADDRESS: Medford, MA 02155

TITLE: Tourist Traffic in Small Historic Cities: Analysis, Strategies, and Recommendations

Report No. PB-269492, DOT-TST-77-2, v.p.

1976, September

SPONSOR: U.S. Dept. of Transportation, Office of University Research

KEYWORDS: TOURISM; TRAFFIC; URBAN AREAS; URBAN

TRANSPORTATION; HISTORY; LOCAL GOVERNMENT;

TRAVEL; VEHICLE TRIPS; RECREATION; ECONOMIC

IMPACT; ENVIRONMENTAL IMPACT; SOCIAL IMPACT;

INSTITUTIONAL FACTORS; SALEM (MASSACHUSETTS);

ALEXANDRIA (VIRGINIA); ANNAPOLIS (MARYLAND);

NEWPORT (RHODE ISLAND); PLYMOUTH

(MASSACHUSETTS); MAPS

AVAILABILITY: NTIS

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Technology Study Panel

TITLE: The Need for and Deployment of Inexhaustible Energy Resource Technologies: Report of Technology Study Panel, Inexhaustible Energy Resources Study

1977, September

SPONSOR: Energy Research and Development Administration

KEYWORDS: ENERGY RESOURCES; SOLAR ENERGY; NATURAL

GAS; SPACE HEATING; TECHNOLOGY; ENERGY

DEMAND; ENERGY CONVERSION; COST ANALYSIS;

SUPPLY (ECONOMICS); GRAPHS (CHARTS); IMPORTS;

TABLES (DATA); SYNTHETIC FUELS; PRICES; RATES

(COSTS); COMMERCIAL SECTOR; ELECTRIC POWER;

UTILIZATION; TRANSPORTATION

<615>

Tev, W.; Jefferies, K.; Miao, D.

National Aeronautics and Space Administration, Lewis Research Center

ADDRESS: Cleveland, OH 44135

TITLE: A Stirling Engine Computer Model for Performance

Report No. DOE/NASA/1011-78/24, NASA-TN-78884, 69

p.

1978, July

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation

KEYWORDS: STIRLING ENGINES; MODELS; PERFORMANCE;

THERMODYNAMIC PROPERTIES; SIMULATION;

COMPUTER PROGRAMS

AVAILABILITY: GPO, Stock No. 757-139/1201

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Thermo Electron Corp.

ADDRESS: 101 First Avenue, Waltham, MA 02154

TITLE: Feasibility Test on Compounding the Internal Combustion Engine for Automotive Vehicles, Task II. Final Report

Report No. COO-2690-1, TE4193-76-75, 250 p.

1976

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation

KEYWORDS: INTERNAL COMBUSTION ENGINES; DIESEL

ENGINES; RANKINE CYCLE ENGINES; PERFORMANCE;

FUEL ECONOMY; TRUCKS; DESIGN; GRAPHS

(CHARTS); DIAGRAMS; AUTOMOTIVE EMISSIONS;

FEASIBILITY; TESTING; WASTE HEAT; RECOVERY;

UTILIZATION; DEMONSTRATION

AVAILABILITY: NTIS

<617>

Thompson, D.L.; Barth, J.; Garthner, R.; Soura, S.

State University of New York, Center for Social

Analysis

ADDRESS: Binghamton, NY 13901

TITLE: Analysis of State and Local Taxation of American Railroads

Report No. PB-268151, 138 p.

1977, January

SPONSOR: National Science Foundation, Science and Technology Policy Office

KEYWORDS: RAILROADS; RAIL TRANSPORTATION;

GOVERNMENT POLICIES; TAXES; ALLOCATIONS;

PROPERTY VALUES; STATE GOVERNMENT; REGIONAL

ANALYSIS; TABLES (DATA); LOCAL GOVERNMENT

AVAILABILITY: NTIS

<618>

Thuillier, R.H.; Dabberdt, W.P.;

Duffey-Armstrong, H.; Sandys, R.C.

Stanford Research Institute

ADDRESS: Menlo Park, CA 94025

TITLE: A Methodology for Making a Quantitative Assessment of Passenger Transportation Alternatives

Final Report, 137 p.

1977, April 4

SPONSOR: U.S. Dept. of Defense, Naval Facilities Engineering Command, Office of Naval

Research; Energy Research and Development

Administration

KEYWORDS: PASSENGER TRANSPORTATION;

TRANSPORTATION MODE CHOICE; LAND USE; ENERGY

CONSERVATION; AIR QUALITY; TRAFFIC; ENERGY

CONSUMPTION; COMMUTERS; COSTS; HIGHWAYS;

MODELS; STATISTICS; INPUT-OUTPUT ANALYSIS;

COMMUTING

<619>

Tovle, W.L.; Graess, J.E.A.; Chilenskas, A.A.;

Ivins, P.O.

Argonne National Laboratory

ADDRESS: 9700 South Cass Ave., Argonne, IL 60439

TITLE: Cost Estimate for the Commercial Manufacture of Lithium/Iron Sulfide Cells for Load-Leveling

Report No. ANL-76-12, 67 p.

1976, March

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation

KEYWORDS: COSTS; LITHIUM/METAL SULFIDE BATTERIES;

LOAD MANAGEMENT; UTILITIES; MANUFACTURING;

LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES;

PRICES; ECONOMICS; DIAGRAMS

AVAILABILITY: NTIS

<620>
 Trinc Transportation Consultants
 ADDRESS: Suite #200, 475 L'enfant Plaza SW,
 Washington, DC 20024
 TITLE: Trinc's Blue Book of the Trucking
 Industry: 1977 Edition
 Thirty-Third Yearbook, annual publication, 286 p.
 1977
 KEYWORDS: TRUCKS; INDUSTRIAL SECTOR; FINANCIAL
 DATA; STATISTICS; TABLES (DATA); MANPOWER;
 INTERCITY TRANSPORTATION; EQUIPMENT; BALANCE
 SHEETS; EXPENSES; REVENUE; REGIONAL ANALYSIS;
 INCOME

<621>
 Truck Trailer Manufacturers Association
 ADDRESS: 2430 Pennsylvania Ave. NW, Washington,
 DC 20037
 TITLE: 1977-78 Truck Trailer Manufacturers
 Association Directory
 Annual publication, v.p.
 1978
 KEYWORDS: DIRECTORIES; MANUFACTURERS; TRUCKS;
 TRAILERS; CONTAINERS

<622>
 TRW Inc., Energy Systems Planning Division
 ADDRESS: McLean, VA 22101
 TITLE: Allocation of Natural Gas Under Energy
 Emergencies: Analysis of Selected Federal
 Actions

Doc. No. 97461-E001-RU-00, v.p.
 1978, September
 SPONSOR: Oak Ridge National Laboratory
 KEYWORDS: GOVERNMENT POLICIES; ALLOCATIONS;
 NATURAL GAS; RATIONING; ENERGY EMERGENCY
 PLANNING; PIPELINES; ENERGY FLOW; PRODUCTION;
 STATE ANALYSIS; COSTS; FORECASTING; PRICES;
 FUEL SUBSTITUTION; TRANSPORTATION; PROPANE;
 MINNESOTA; OHIO; TABLES (DATA)

<623>
 Turner, D.D.
 Business Science Corp.
 ADDRESS: Frederick, MD
 TITLE: Management by Objectives Program of the
 Florida Department of Transportation
 Report presented at the 54th Annual Meeting of
 the Transportation Research Board, published
 in Transportation Research Record 585, 60-67
 1976
 KEYWORDS: MANAGEMENT; FLORIDA; TRANSPORTATION;
 SCHEDULING; STATE GOVERNMENT; PLANNING;
 DECISION MAKING
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20018
 \$1.60 for Transportation Research Record

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 Turner, F.C.; Davis, H.E.
 International Road Federation
 ADDRESS: 1023 Washington Building, Washington, DC
 20005
 TITLE: A Comparative Analysis of Urban
 Transportation Requirements, Volumes I and II
 Report No. PB-267788, FHWA-PL-77013, 52 p. for
 Volume I; Report No. PB-267789,
 FHWA-PL-77014, 432 p. for Volume II

1977, February 25
 SPONSOR: U.S. Dept. of Transportation, Federal
 Highway Administration
 KEYWORDS: COMPARATIVE EVALUATIONS; URBAN
 TRANSPORTATION; TABLES (DATA); REGIONAL
 ANALYSIS; SOCIO-ECONOMIC FACTORS; RAIL
 TRANSPORTATION; POPULATION (STATISTICS);
 COSTS; VEHICLE REGISTRATIONS; BUSES
 (VEHICLES); TRUCKS; AUTOMOBILES; MASS
 TRANSPORTATION; BRUSSELS; CANADA; PARIS;
 MUNICH (GERMAN FEDERAL REPUBLIC); UNITED
 KINGDOM; ITALY; JAPAN; MEXICO CITY; OSLO;
 SPAIN; STOCKHOLM; SWITZERLAND; ATLANTA;
 CHICAGO; DENVER; LOS ANGELES; NEW YORK CITY;
 PHILADELPHIA; SAN FRANCISCO; SEATTLE;
 WASHINGTON DC; REPUBLIC OF KOREA
 AVAILABILITY: NTIS

<625>
 U.S. Congress
 ADDRESS: Washington, DC
 TITLE: National Traffic and Motor Vehicle Safety
 Act of 1966
 Public Law 89-563, 89th Congress, S. 3005, 13 p.
 1966, September 9
 KEYWORDS: SAFETY; GOVERNMENT POLICIES;
 REGULATIONS; STANDARDS; MOTOR VEHICLES;
 ACCIDENTS; MANUFACTURERS
 AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<626>
 U.S. Congress
 ADDRESS: Washington, DC
 TITLE: Railroad Revitalization and Regulatory
 Reform Act of 1976
 Public Law 94-210, 94th Congress, S. 2718, 119 p.
 1976, February 5
 KEYWORDS: RAIL TRANSPORTATION; RAILROADS;
 INTERSTATE COMMERCE COMMISSION; REVENUE;
 GOVERNMENT POLICIES; RATES (COSTS);
 FINANCING; REGULATIONS
 AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<627>
 U.S. Congress
 ADDRESS: Washington, DC
 TITLE: Motor Vehicle Information and Cost Savings
 Act
 Public Law 92-513, 92nd Congress, S. 976, 17 p.
 1972, October 20
 KEYWORDS: PASSENGER TRANSPORTATION; STANDARDS;
 MOTOR VEHICLES; AUTOMOBILES; GOVERNMENT
 POLICIES; REGULATIONS; SAFETY; EQUIPMENT;
 ACCIDENTS; LEGAL ASPECTS; INSURANCE;
 ODOMETERS; BUMPERS
 AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<628>
 U.S. Congress
 ADDRESS: Washington, DC
 TITLE: Noise Control Act of 1972
 Public Law 92-574, 92nd Congress, H.R. 11021
 1972, October 27
 KEYWORDS: NOISE POLLUTION; GOVERNMENT POLICIES;
 REGULATIONS; STANDARDS; COMMERCIAL SECTOR;
 EQUIPMENT; AIRCRAFT; LEGAL ASPECTS;
 RAILROADS; MOTOR VEHICLES; INTERSTATE

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<628> CONT.

TRANSPORTATION; TRANSPORTATION
 AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<629>

U.S. Congress
 ADDRESS: Washington, DC
 TITLE: Federal-aid Highway Act of 1976 and
 Highway Safety Act of 1976

Public Law 94-280, 94th Congress, H.R. 8235, 33 p.
 1976, May 5

KEYWORDS: INTERSTATE TRANSPORTATION; HIGHWAYS;
 HIGHWAY TRANSPORTATION; CONSTRUCTION;
 GOVERNMENT POLICIES; APPROPRIATIONS; TRAFFIC
 CONTROL; SAFETY; RAIL TRANSPORTATION; BUSES
 (VEHICLES)

AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<630>

U.S. Congress, Joint Committee on Taxation
 ADDRESS: Washington, DC
 TITLE: Energy Program 8: Energy Tax Proposals
 Relating to Transportation

Congressional Committee Print, 47 p.

1977, June 6

SPONSOR: U.S. House of Representatives, Committee
 on Ways and Means

KEYWORDS: TRANSPORTATION; LEGISLATION; TAXES;
 AUTOMOBILES; ECONOMICS; GASOLINE; FUEL
 CONSUMPTION; INDUSTRIES; REVENUE; ENERGY
 POLICY; ENERGY CONSERVATION; TABLES (DATA);
 INCOME; FUEL ECONOMY

<631>

U.S. Congress, Office of Technology Assessment
 ADDRESS: Washington, DC 20510
 TITLE: Analysis of the Proposed National Energy
 Plan

Report No. OTA-E-51, 248 p.

1977, August

SPONSOR: U.S. House of Representatives, Committee
 on Science and Technology; U.S. House of
 Representatives, Committee on Interior and
 Insular Affairs

KEYWORDS: ENERGY POLICY; PLANNING; LEGISLATION;
 SOCIO-ECONOMIC FACTORS; ENERGY SUPPLIES;
 ENERGY DEMAND; SOCIAL IMPACT; PRICES; FOSSIL
 FUELS; COAL; PETROLEUM; NATURAL GAS; NUCLEAR
 ENERGY; ENERGY CONSERVATION; TABLES (DATA);
 NATIONAL ENERGY PLAN

AVAILABILITY: GPO \$4.00, Stock No.

052-003-00420-8

<632>

U.S. Congress, Office of Technology Assessment
 ADDRESS: Washington, DC 20510
 TITLE: Assessment of Community Planning for Mass
 Transit. Volume I: Summary

Report No. PB-253679, OTA-T-16, 82 p.

1976, February

KEYWORDS: MASS TRANSPORTATION; GOVERNMENT
 POLICIES; URBAN TRANSPORTATION; URBAN AREAS;
 PLANNING; TECHNOLOGY ASSESSMENT; FINANCING;
 PHOTOGRAPHS; TABLES (DATA); STATE ANALYSIS

AVAILABILITY: NTIS

<633>

U.S. Dept. of Commerce, Bureau of Economic
 Analysis
 ADDRESS: Washington, DC
 TITLE: 1975 Business Statistics. Twentieth
 Biennial Edition

Biennial supplement to the Survey of Current
 Business, v.p.

1976, May

KEYWORDS: STATISTICS; INCOME; PRICES; FINANCIAL
 DATA; TRADE; CONSTRUCTION; EMPLOYMENT;
 INTERNATIONAL TRADE; TRANSPORTATION; ELECTRIC
 POWER; NATURAL GAS; PETROLEUM; COAL; TABLES
 (DATA); INDUSTRIES; EARNINGS

AVAILABILITY: GPO \$5.10

<634>

U.S. Dept. of Commerce, Bureau of the Census
 ADDRESS: Washington, DC
 TITLE: 1967 Census of Transportation. Commodity
 Transportation Survey - Commodity Groups:
 Part 2, Selected Major TCC 3-Digit Classes

Report No. TC67-C3-2, 373 p.

1970, June

KEYWORDS: TRUCKS; CARGO TRANSPORTATION;
 MANUFACTURERS; INDUSTRIES; COMMODITIES;
 DISTRIBUTION; TABLES (DATA); WEIGHT

AVAILABILITY: GPO \$2.75

<635>

U.S. Dept. of Commerce, Bureau of the Census
 ADDRESS: Washington, DC
 TITLE: 1967 Census of Transportation. Commodity
 Transportation Survey - Traffic Patterns of
 Small Manufacturing Plants

Report No. TC67-C3-4, 39 p.

1970

KEYWORDS: TRAFFIC; CENSUS; MANUFACTURING;
 INDUSTRIES; COMMODITIES; REGIONAL ANALYSIS;
 TABLES (DATA); CARGO TRANSPORTATION; TRUCKS

AVAILABILITY: GPO \$0.50

<636>

U.S. Dept. of Commerce, Bureau of the Census
 ADDRESS: Washington, DC
 TITLE: Domestic and International Transportation
 of U.S. Foreign Trade: 1970

1972, September

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary, Office of Systems Analysis and
 Information; U.S. Dept. of Defense, Army
 Corps of Engineers, Institute for Water
 Resources

KEYWORDS: INTERNATIONAL TRAVEL; INTERNATIONAL
 TRADE; TRANSPORTATION; COMMODITIES; CARGO
 TRANSPORTATION; SURVEYS; TABLES (DATA);
 GRAPHS (CHARTS); WEIGHT; WATER
 TRANSPORTATION; AIR TRANSPORTATION; MARINE
 TRANSPORTATION; MAPS; EXPORTS; IMPORTS;
 REGIONAL ANALYSIS; QUESTIONNAIRES; DISTANCE

AVAILABILITY: GPO

<637>

U.S. Dept. of Commerce, Bureau of the Census,
 Business Division
 ADDRESS: Washington, DC
 TITLE: 1972 Census of Wholesale Trade. Subject
 Series: Petroleum Bulk Stations and Terminals

<637> CONT.

Series No. WC72-3-2, 157 p.

1975, October

KEYWORDS: PETROLEUM; PETROLEUM PRODUCTS; STATE ANALYSIS; STORAGE; CAPACITY; REGIONAL ANALYSIS; LIQUEFIED PETROLEUM GASES; TABLES (DATA); STATISTICS; SALES; WHOLESALE TRADE; RETAIL TRADE; CAPITAL COSTS; TRANSPORTATION AVAILABILITY: GPO

<638>

U.S. Dept. of Commerce, Bureau of the Census, Foreign Trade Division

ADDRESS: Washington, DC 20233

TITLE: United States Foreign Trade: Bunker Fuels. Oil and Coal Laden in the United States on Vessels Engaged in Foreign Trade

Annual and Monthly Reports, Foreign Trade Series 810, v.p.

KEYWORDS: COAL; INTERNATIONAL TRADE; DIESEL FUELS; MARINE TRANSPORTATION; FUEL OIL; USA; ENERGY CONSUMPTION; IMPORTS; EXPORTS; PETROLEUM; TABLES (DATA); HARBORS; STATISTICS; WATER TRANSPORTATION; SHIPS

<639>

U.S. Dept. of Commerce, Bureau of the Census, Industry Division

ADDRESS: Washington, DC

TITLE: Annual Survey of Oil and Gas: 1976

Current Industrial Reports, Series No.

NA-134 (76)-1, 45 p.

1977, December

KEYWORDS: PETROLEUM; NATURAL GAS; REVENUE; SALES; STATISTICS; EXPENDITURES; PRODUCTION; EXPLORATION; GAS WELLS; OIL WELLS; GRAPHS (CHARTS); TABLES (DATA); SALES; LEASES; FINANCIAL DATA; PETROLEUM INDUSTRY

AVAILABILITY: Subscriber Services Section, Bureau of the Census, Washington, DC 20233 \$0.70

<640>

U.S. Dept. of Commerce, Bureau of the Census, Population Division

ADDRESS: Washington, DC

TITLE: Consumer Income: Money Income and Poverty Status in 1975 of Families and Persons in the United States and the North Central Region, by Divisions and States (Spring 1976 Survey of Income and Education)

Current Population Reports, Series No. P-60, No. 111, 209 p.

1978, April

KEYWORDS: CONSUMERS; INCOME; REGIONAL ANALYSIS; STATE ANALYSIS; POPULATION (STATISTICS); AGE GROUPS; RACE; POVERTY; SEX

AVAILABILITY: GPO

<641>

U.S. Dept. of Commerce, Industry and Trade Administration

ADDRESS: Washington, DC

TITLE: 1978 U.S. Industrial Outlook with 5-year Projections for 200 Industries

479 p.

1978, January

KEYWORDS: INDUSTRIAL SECTOR; CONSTRUCTION INDUSTRY; MATERIALS; COMMERCIAL SECTOR; MANUFACTURING; FORECASTING; GROWTH; LUMBER INDUSTRY; PAPER INDUSTRY; METAL INDUSTRY;

<637>

TRANSPORTATION; TABLES (DATA); GRAPHS (CHARTS); CHEMICAL INDUSTRY; MARKETING; WHOLESALE TRADE; RETAIL TRADE; HOUSEHOLD GOODS; COMMUNICATION; MACHINERY; ELECTRICAL EQUIPMENT

AVAILABILITY: GPO, Stock No. 003-008-00179-3

<642>

U.S. Dept. of Commerce, Maritime Administration, Office of Subsidy Administration

ADDRESS: Washington, DC

TITLE: Merchant Fleets of the World: Oceangoing Steam and Motor Ships of 1,000 Gross Tons and Over as of December 31, 1975

Annual report, Report No. MAR-560-20, 47 p.

1976, September

KEYWORDS: MARINE TRANSPORTATION; TONNAGE; INTERNATIONAL ANALYSIS; TANKER SHIPS; SHIPS; CARGO TRANSPORTATION; TABLES (DATA); INVENTORIES

<643>

U.S. Dept. of Commerce, Maritime Administration, Office of Trade Studies and Statistics

ADDRESS: Washington, DC

TITLE: A Statistical Analysis of the World's Merchant Fleets Showing Age, Size, Speed, and Draft by Frequency Grouping as of December 31, 1976

372 p.

1977

KEYWORDS: WATER TRANSPORTATION; CARGO TRANSPORTATION; STATISTICS; INTERNATIONAL ANALYSIS; PASSENGER TRANSPORTATION; SHIPS; TONNAGE; MARINE TRANSPORTATION; WEIGHT

AVAILABILITY: GPO, Stock No. 003-007-00083-9

<644>

U.S. Dept. of Defense, Army Corps of Engineers

ADDRESS: Vicksburg, MS

TITLE: Waterborne Commerce of the United States: Calendar Year 1976. Parts 1-5

Annual publication. v.p.

1978

KEYWORDS: WATER TRANSPORTATION; TABLES (DATA); STATISTICS; COMMERCE; WATERWAY TRANSPORTATION; REGIONAL ANALYSIS; STATE ANALYSIS; TRADE; TRAFFIC; HARBORS; COASTS; BARGES; INTERNATIONAL TRADE

AVAILABILITY: U.S. Army Engineering Division, New England, 424 Trapelo Road, Waltham, MA 02154

<645>

U.S. Dept. of Defense, Civil Preparedness Agency

ADDRESS: Washington, DC

TITLE: Energy Emergencies

Report No. CPA 1-28, v.p.

1977, January

KEYWORDS: ENERGY EMERGENCY PLANNING; HEALTH; SAFETY; SPACE HEATING; ELECTRIC POWER DEMAND; NATURAL GAS; STATE GOVERNMENT; FUEL CONSUMPTION; ALLOCATIONS; FUEL ECONOMY; ENERGY CONSERVATION; RESIDENTIAL SECTOR; TRANSPORTATION

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U.S. Dept. of Energy
 ADDRESS: Washington, DC 20585
 TITLE: Electric and Hybrid Vehicle Program:
 Small Business Planning Grants

Program Announcement No. EH-78-N-01-4205, 45 p.
 1978

KEYWORDS: ELECTRIC VEHICLES; HYBRID
 ELECTRIC-POWERED VEHICLES; US DOE; FUNDING;
 PLANNING; RESEARCH

<647>

U.S. Dept. of Energy, Assistant Secretary for
 Conservation and Solar Applications; U.S.
 Dept. of Energy, Assistant Secretary for
 Environment

ADDRESS: Washington, DC
 TITLE: Environmental Development Plan (EDP):
 Transportation Energy Conservation, FY 1977

Report No. DOE/EDP-0018, 163 p.
 1978, March

KEYWORDS: PLANNING; TECHNOLOGY; TRANSPORTATION;
 HIGHWAY TRANSPORTATION; ELECTRIC VEHICLES;
 ENGINES; HYBRID ELECTRIC-POWERED VEHICLES;
 ALTERNATE FUELS; SYNTHETIC FUELS; MITIGATION;
 HEALTH; SAFETY; ENVIRONMENTAL IMPACT;
 DIAGRAMS; STIRLING ENGINES; GAS TURBINE
 ENGINES; PIPELINE TRANSPORTATION; STRATIFIED
 CHARGE ENGINES; DRIVING CYCLE; FUEL
 CONSUMPTION; COMPARATIVE EVALUATIONS
 AVAILABILITY: NTIS

<648>

U.S. Dept. of Energy, Assistant Secretary for
 Conservation and Solar Applications, Office
 of Business Assistance Programs

ADDRESS: Washington, DC 20545
 TITLE: Voluntary Business Energy Conservation
 Program: Progress Report No. 6

Semi-annual report, Report No. DOE/CS-0018/6, 160
 p.

1978, April
 KEYWORDS: INDUSTRIES; INDUSTRIAL SECTOR; ENERGY
 CONSERVATION; ENERGY CONSUMPTION; AVIATION;
 AUTOMOTIVE INDUSTRY; AGRICULTURE;
 CONSTRUCTION INDUSTRY; ENERGY DEMAND; AIR
 CONDITIONING; FUELS; GRAPHS (CHARTS)
 AVAILABILITY: GPO, Stock No. 061-000-00052-6

<649>

U.S. Dept. of Energy, Assistant Secretary for
 Conservation and Solar Applications,
 Transportation Programs Office

ADDRESS: Washington, DC 20545
 TITLE: Proceedings of the Workshop on Urban
 Freight Consolidation

Report No. CONF-760165, Proceedings of the
 Workshop held January 13-14, 1976 in
 Knoxville, TN, 187 p.

1978, June

SPONSOR: U.S. Dept. of Transportation; Federal
 Energy Administration; Tennessee, University
 of

KEYWORDS: CARGO TRANSPORTATION; PLANNING; DEMAND
 (ECONOMICS); URBAN TRANSPORTATION; RAIL
 TRANSPORTATION; INTERNATIONAL TRADE; TRUCKS;
 TABLES (DATA); GRAPHS (CHARTS); WATER
 TRANSPORTATION; COMMODITIES; RATES (COSTS);
 SHIPMENTS; LAND USE; SOCIO-ECONOMIC FACTORS;
 ENVIRONMENTAL IMPACT; GOVERNMENT POLICIES;
 EMPLOYMENT

<650>

U.S. Dept. of Energy, Assistant Secretary for
 Energy Technology

ADDRESS: Washington, DC
 TITLE: Market Oriented Program Planning Study
 (MOPPS). Volume 1: Integrated Summary

Review Draft, Report No. DOE/ET-0010/1(D), 399 p.
 1977, December

KEYWORDS: RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
 TRANSPORTATION; INDUSTRIAL SECTOR;
 ENVIRONMENTAL IMPACT; SUPPLY (ECONOMICS);
 TABLES (DATA); TECHNOLOGY ASSESSMENT; FOSSIL
 FUELS; COAL; SOLAR ENERGY; ENERGY
 CONSERVATION; ENERGY SUPPLIES; DEMAND
 (ECONOMICS); PLANNING; MARKET; ENERGY
 CONSUMPTION; NATURAL GAS; PETROLEUM; ELECTRIC
 POWER GENERATION; HEALTH; SAFETY; COMPARATIVE
 EVALUATIONS; GRAPHS (CHARTS); RESEARCH;
 COMMERCIALIZATION; FORECASTING

<651>

U.S. Dept. of Energy, Assistant Secretary for
 Environment; U.S. Dept. of Energy, Office of
 Technology Impact; U.S. Dept. of Energy,
 Office of Planning Coordination

ADDRESS: Washington, DC
 TITLE: Environmental Development Plan (EDP):
 Summary and Status of Environmental
 Development Plans, FY 1978

Report No. DOE/EDP-0025, 83 p.
 1978, April

KEYWORDS: SOLAR ENERGY; GEOTHERMAL ENERGY; FOSSIL
 FUELS; COAL GASIFICATION; ENERGY
 CONSERVATION; COAL LIQUEFACTION; TECHNOLOGY;
 MAGNETOHYDRODYNAMICS; COMBUSTION; COAL;
 NUCLEAR ENERGY; BIONASS; UNCONVENTIONAL
 ENERGY SOURCES; PHOTOVOLTAIC CONVERSION; AIR
 POLLUTION; WATER POLLUTION; BUILDINGS;
 INDUSTRIAL SECTOR; TRANSPORTATION; HEALTH;
 SAFETY; SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL
 IMPACT; ELECTRIC POWER; OCEAN THERMAL ENERGY
 CONVERSION
 AVAILABILITY: NTIS

<652>

U.S. Dept. of Energy, Division of Transportation
 Energy Conservation

ADDRESS: Washington, DC
 TITLE: The First Annual Report to Congress on the
 Implementation of Public Law 94-413: The
 Electric and Hybrid Vehicle Research,
 Development and Demonstration Act of 1976

Report No. DOE/CS-0002/1, 78 p.
 1977, December

KEYWORDS: ELECTRIC VEHICLES; RESEARCH PROGRAMS;
 RESEARCH; DEVELOPMENT; US DOE; GOVERNMENT
 POLICIES; DEMONSTRATION; INDUSTRIES
 AVAILABILITY: GPO, Stock No. 061-000-00024-1

<653>

U.S. Dept. of Energy, Division of Transportation
 Energy Conservation

ADDRESS: Washington, DC 20545
 TITLE: Program Planning Document: Highway
 Vehicle Alternative Fuels Utilization Program
 (AFUP)

Report No. DOE/CS-0029, v.p.
 1978, April

KEYWORDS: ALTERNATE FUELS; HIGHWAY
 TRANSPORTATION; UTILIZATION; ENERGY
 CONSUMPTION; SYNTHETIC FUELS; FUNDING;
 RESEARCH; PETROLEUM; TECHNOLOGY ASSESSMENT;

<653> CONT.
GRAPHS (CHARTS)

<654>
U.S. Dept. of Energy, Division of Transportation
Energy Conservation
ADDRESS: Washington, DC
TITLE: Alternative Fuels Utilization Report

Report No. DOE/CS-0022, v.p.
Irregular Publication
KEYWORDS: ALTERNATE FUELS; UTILIZATION; US DOE;
INTERNATIONAL ANALYSIS; TRANSPORTATION;
PLANNING

<655>
U.S. Dept. of Energy, Division of Transportation
Energy Conservation
ADDRESS: Washington, DC
TITLE: Electric and Hybrid Vehicle Demonstration:
1978

Report No. DOE/CS-0046, 13 p.
1978
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; US DOE; MARKET;
DEMONSTRATION; UTILIZATION; ELECTRIC VEHICLE
RANGE; RESEARCH
AVAILABILITY: GPO, Stock No. 061-000-00171-9

<656>
U.S. Dept. of Energy, Division of Transportation
Energy Conservation, Office of Highway
Vehicle Systems
ADDRESS: Washington, DC
TITLE: Highway Vehicle Systems Contractors
Coordination Meeting

Thirteenth Summary Report, Report No.
CONF-771037, proceedings of a conference held
October 4-6, 1977, Dearborn, Michigan, 430 p.
1978, March
KEYWORDS: CONFERENCES; AUTOMOTIVE ENGINES; US
DOE; GAS TURBINE ENGINES; HEAT ENGINES; NASA;
FUEL ECONOMY; PASSENGER TRANSPORTATION; HEAT
EXCHANGERS; STIRLING ENGINES; DESIGN;
ALTERNATE FUELS; TRANSPORTATION; ENERGY
CONSERVATION; DIAGRAMS; PHOTOGRAPHS; GRAPHS
(CHARTS)
AVAILABILITY: NTIS

<657>
U.S. Dept. of Energy, Economic Regulatory
Administration
ADDRESS: Washington, DC
TITLE: Notice of Proposed Rulemaking and Public
Hearing to Establish Contingency Gasoline
Rationing Plan

10 CFR Part 500, 107 p.
KEYWORDS: GASOLINE; GOVERNMENT POLICIES;
HEARINGS; VEHICLES; ALLOCATIONS; CONSUMERS;
DIESEL FUELS; PURCHASING; AUTOMOBILES;
ECONOMIC ANALYSIS; REGULATIONS; RATIONING;
PLANNING; SHORTAGES; STATE ANALYSIS; ENERGY
EMERGENCY PLANNING; PUBLIC SERVICES; PRICES

<658>
U.S. Dept. of Energy, Economic Regulatory
Administration

ADDRESS: Washington, DC
TITLE: Preliminary Findings and Views Concerning
the Exemption of Kerojet Fuels from the
Mandatory Petroleum Allocation and Price
Regulations

Report No. DOE/ERA-0002, 104 p.
1978, January
KEYWORDS: AIR TRANSPORTATION; ENERGY DEMAND;
HISTORY; ENERGY SUPPLIES; COSTS; PETROLEUM;
TABLES (DATA); AVIATION FUELS; TURBINES;
KEROSENE; ECONOMIC IMPACT; IMPORTS;
DISTRIBUTION; FORECASTING; REFINERIES;
MILITARY UTILIZATION; TRANSPORTATION;
REGULATIONS; PRICES; MARKET; ALLOCATIONS

<659>
U.S. Dept. of Energy, Economic Regulatory
Administration, Office of Regulations and
Emergency Planning
ADDRESS: Washington, DC 20461
TITLE: Findings and Views Concerning the
Exemption of Motor Gasoline From the
Mandatory Petroleum Allocation and Price
Regulations: Supplement to September 1977
Report

Report No. DOE/ERA-0012, 72 p.
1978, May
KEYWORDS: GASOLINE; PETROLEUM; ALLOCATIONS;
REGULATIONS; EMERGENCY ENERGY PLANNING;
GOVERNMENT POLICIES; ENERGY SHORTAGES; ENERGY
DEMAND; PRICES; HISTORY; FUEL CONSUMPTION;
MARKET; TABLES (DATA); SALES; FORECASTING;
ENERGY SUPPLIES; PETROLEUM REFINERIES

<660>
U.S. Dept. of Energy, Economic Regulatory
Administration, Office of Regulations and
Emergency Planning
ADDRESS: Washington, DC
TITLE: Environmental Assessment of the Exemption
of Motor Gasoline from the Mandatory
Allocation and Price Regulations

34 p.
1978, May
KEYWORDS: ENVIRONMENTAL IMPACT; ALLOCATIONS;
REGULATIONS; GASOLINE; GOVERNMENT POLICIES;
PRICES; VEHICLES; ENERGY POLICY; REGIONAL
ANALYSIS; WATER QUALITY; AIR QUALITY

<661>
U.S. Dept. of Energy, Economic Regulatory
Administration, Office of Regulations and
Emergency Planning, Major Emergency Programs
Division
ADDRESS: Washington, DC
TITLE: Economic and Regulatory Analysis of the
Proposed Standby Gasoline Rationing Plan

Draft Report, 279 p.
1978, April 13
KEYWORDS: INDUSTRIAL SECTOR; STATE ANALYSIS;
COMPETITION; TABLES (DATA); US DOE; SALES;
ECONOMIC IMPACT; REGIONAL ANALYSIS; FUEL
CONSUMPTION; GASOLINE; ENERGY SHORTAGES;
PRICES; REGULATIONS; PETROLEUM; ALLOCATIONS;
FORECASTING; ECONOMIC ANALYSIS; GROSS
NATIONAL PRODUCT; EMPLOYMENT; INCOME;
TRANSPORTATION

<662>
U.S. Dept. of Energy, Energy Information

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<662> CONT.

Administration

ADDRESS: Washington, DC 20461

TITLE: Energy Information Administration Annual Report to Congress: 1977. Volume I

Report No. DOE/EIA-00036/1, 106 p.

1978, February

KEYWORDS: US DOE; DATA ACQUISITION; ENERGY SUPPLIES; ENERGY DEMAND; SYSTEMS ANALYSIS; HISTORY

<663>

U.S. Dept. of Energy, Energy Information

Administration

ADDRESS: Washington, DC

TITLE: 1977 Energy Information Administration Annual Report to Congress. Volume II: Projections of Energy Supply and Demand and Their Impacts. (Also Executive Summary)

Report No. DOE/EIA-0036/2 (EX SUM), 24 p.; Report No. DOE/EIA-0036/2, 296 p.

1978

KEYWORDS: FORECASTING; ENERGY DEMAND; ENERGY SUPPLIES; IMPORTS; TABLES (DATA); AIR POLLUTION; GROWTH; GRAPHS (CHARTS); HISTORY; COMPETITION; REGULATIONS; INTERNATIONAL ANALYSIS; PRICES; RESIDENTIAL SECTOR; TRANSPORTATION; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; ENERGY CONSUMPTION; ENERGY SOURCES; PETROLEUM; NATURAL GAS; NUCLEAR FUELS; ELECTRIC POWER; UNCONVENTIONAL ENERGY SOURCES; ALTERNATE FUELS; ECONOMIC ANALYSIS; ECONOMIC IMPACT; ENVIRONMENTAL IMPACT

<664>

U.S. Dept. of Energy, Energy Information

Administration

ADDRESS: Washington, DC

TITLE: Energy Information Administration Annual Report to Congress. Volume III: Statistics and Trends of Energy Supply, Demand, and Prices

Report No. DOE/EIA-0036/3, Volume III of 3 volumes, 145 p.

1978, May

KEYWORDS: TRANSPORTATION; STATISTICS; TABLES (DATA); TRENDS; HISTORY; CONSUMERS; ENERGY CONSUMPTION; ENERGY SUPPLIES; NATURAL GAS; PETROLEUM; FOSSIL FUELS; EXPORTS; IMPORTS; GASOLINE; SALES; GEOTHERMAL POWER GENERATION; SOLAR ENERGY; DIESEL FUELS; RESIDENTIAL SECTOR; PRICES; ELECTRIC POWER; NUCLEAR ENERGY; GRAPHS (CHARTS)

AVAILABILITY: GPO

<665>

U.S. Dept. of Energy, Energy Information Administration, Office of Energy Data and Interpretation

ADDRESS: Washington, DC 20461

TITLE: Supply, Demand, and Stocks of All Oils by P.A.D. Districts and Imports into the United States, by Country: 1977

Annual Report, Energy Data Reports (formerly Mineral Industry Surveys), 10 p.

1978, May 31

KEYWORDS: PETROLEUM; IMPORTS; PRODUCTION; REGIONAL ANALYSIS; PETROLEUM PRODUCTS; ENERGY DEMAND; TABLES (DATA)

<666>

U.S. Dept. of Energy, Nevada Operations Office

ADDRESS: Las Vegas, NV

TITLE: Driver Aid and Education Test Project. Final Report

Report No. DOE/CS-0043, v.p.

1978, July

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: AUTOMOBILE DRIVERS; EDUCATION; AUTOMOTIVE FUELS; FUEL ECONOMY; AUTOMOBILES; TRUCKS; TESTING; MEASURING INSTRUMENTS; DRIVING CYCLE; FEEDBACK; TABLES (DATA); GRAPHS (CHARTS); MONTHLY VARIATIONS
AVAILABILITY: NTIS

<667>

U.S. Dept. of Energy, Office of Public Affairs

ADDRESS: Washington, DC 20461

TITLE: DOE Proposes Emergency Gasoline Rationing Plan

Department of Energy Information Press Release, R-78-219, 8 p.

1978, June 22

KEYWORDS: RATIONING; HEARINGS; ENERGY POLICY; GASOLINE; ALLOCATIONS; SALES; MARKETING; VEHICLES; PETROLEUM; GOVERNMENT POLICIES; AUTOMOBILES; PUBLIC SERVICES; CONSUMERS; PLANNING; ENERGY POLICY AND CONSERVATION ACT; ENERGY EMERGENCY PLANNING

<668>

U.S. Dept. of Energy, Office of the Under

Secretary, Task Force on Alcohol Fuels

ADDRESS: Washington, DC 20545

TITLE: Alcohol Fuels Program Plan

Report No. DOE/US-0001/2, v.p.

1978, March

KEYWORDS: ALCOHOLS; ETHANOL; METHANOL; LIQUID FUELS; ALTERNATE FUELS; SOCIO-ECONOMIC FACTORS; INDUSTRIAL SECTOR; PRICES; ECONOMIC ANALYSIS; ENERGY RESOURCES; PETROLEUM; ENERGY EMERGENCY PLANNING; COAL; BIOMASS; SOLID WASTES; PLANNING; UTILIZATION; RESEARCH; ENVIRONMENTAL IMPACT; TABLES (DATA)

AVAILABILITY: GPO, Stock No. 061-000-00064-0

<669>

U.S. Dept. of Energy, Office of the Under

Secretary, Task Force on Alcohol Fuels

ADDRESS: Washington, DC 20545

TITLE: Department of Energy Position Paper on Alcohol Fuels

Report No. DOE/US-0001/1, v.p.

1978, March

KEYWORDS: ALCOHOL FUELS; ALTERNATE FUELS; US DOE; ETHANOL; METHANOL; COMMERCIALIZATION; PRODUCTION; FUEL CONSUMPTION; COSTS; UTILIZATION; PLANNING; RESEARCH; GOVERNMENT POLICIES

<670>

U.S. Dept. of Interior, Bureau of Mines

ADDRESS: Washington, DC

TITLE: Minerals Yearbook: 1975. Volume 1. Metals, Minerals, and Fuels

Annual report, 1550 p.

1977

KEYWORDS: MINERALS; STATISTICS; TABLES (DATA);

<670> CONT.

METALS; FOSSIL FUELS; PRODUCTION; MINING;
EXTRACTION; INDUSTRIES; COAL; NATURAL GAS;
PETROLEUM PRODUCTS; URANIUM; STATE ANALYSIS;
REGIONAL ANALYSIS; INTERNATIONAL TRADE
AVAILABILITY: GPO, Stock No. 024-004-01922-1

<671>

U.S. Dept. of Interior, Bureau of Mines
ADDRESS: Washington, DC
TITLE: Minerals in the U.S. Economy: Ten-Year
Supply-Demand Profiles for Mineral and Fuel
Commodities (1966-75)

99 p.

1977

KEYWORDS: MINERALS; FUELS; RESOURCES; TABLES
(DATA); SUPPLY (ECONOMICS); DEMAND
(ECONOMICS); METALS; ENERGY SUPPLIES;
COMMODITIES; TABLES (DATA); ENERGY SOURCES
AVAILABILITY: GPO

<672>

U.S. Dept. of Interior, Bureau of Mines
ADDRESS: Washington, DC
TITLE: Status of the Mineral Industries: 1977

46 p.

1977

KEYWORDS: MINERALS; INDUSTRIES; MINING; METALS;
GRAPHS (CHARTS); STEELS; PRODUCTION;
ALUMINUM; TRANSPORTATION; ECONOMICS;
PETROLEUM REFINING; IMPORTS; EXPORTS;
INTERNATIONAL TRADE; CONSTRUCTION MATERIALS;
ENERGY RESOURCES; COAL; PETROLEUM; NUCLEAR
FUELS; NATURAL GAS; URANIUM; IRON;
RECLAMATION; PLASTICS

<673>

U.S. Dept. of Interior, Bureau of Mines, Division
of Fuels Data
ADDRESS: Washington, DC 20241
TITLE: Mineral Industry Surveys: Petroleum
Refineries in the United States and Puerto
Rico, January 1, 1977

Annual report, 17 p.

1977, July 18

KEYWORDS: PETROLEUM; PUERTO RICO; PETROLEUM
REFINERIES; PRODUCTION; CAPACITY;
DISTILLATION; REGIONAL ANALYSIS; TABLES
(DATA); CONSTRUCTION; STATE ANALYSIS

<674>

U.S. Dept. of Transportation
ADDRESS: Washington, DC
TITLE: U.S. Dept. of Transportation Fiscal Year
1979 Budget in Brief

18 p.

1978, January

KEYWORDS: BUDGETS; GOVERNMENT POLICIES;
TRANSPORTATION; TABLES (DATA); RAIL
TRANSPORTATION; HIGHWAY TRANSPORTATION; AIR
TRANSPORTATION; LEGISLATION; SAFETY; URBAN
TRANSPORTATION; MASS TRANSPORTATION

<675>

U.S. Dept. of Transportation
ADDRESS: Washington, DC 20590

TITLE: U.S. Department of Transportation. 10th
Annual Report: Fiscal Year 1976

Annual Report for Fiscal Year 1976, 97 p.
1978

KEYWORDS: US DOT; TRANSPORTATION; TABLES (DATA);
WATER TRANSPORTATION; AIR TRANSPORTATION;
RAIL TRANSPORTATION; HIGHWAY TRANSPORTATION;
MASS TRANSPORTATION; MATERIALS; SAFETY;
RAILROADS

AVAILABILITY: GPO, Stock No. 500-000-00137-7

<676>

U.S. Dept. of Transportation; U.S. Environmental
Protection Agency
ADDRESS: Washington, DC
TITLE: Study of Potential for Motor Vehicle Fuel
Economy Improvement: Fuel Economy Test
Procedures Panel Report

Report No. 6, 75 p.

1975, January 10

KEYWORDS: FUEL ECONOMY; MOTOR VEHICLES; FUEL
CONSUMPTION; TESTING; TABLES (DATA);
AUTOMOBILE TRANSMISSIONS; URBAN
TRANSPORTATION; WEIGHT; SPEED LIMITS;
INTERSTATE TRANSPORTATION; HISTORY;
AUTOMOTIVE EMISSIONS; AUTOMOBILES; WEATHER;
DRIVING CYCLE

<677>

U.S. Dept. of Transportation; U.S. Environmental
Protection Agency
ADDRESS: Washington, DC
TITLE: Study of Potential for Motor Vehicle Fuel
Economy Improvement: Safety Implications
Panel Report

Report No. 2, 45 p.

1975, January 10

KEYWORDS: FUEL ECONOMY; WEIGHT; SPEED LIMITS;
SAFETY; AUTOMOBILES; TRANSPORTATION;
STATISTICS; TABLES (DATA); URBAN AREAS;
INJURIES; STATE ANALYSIS; HISTORY; SALES;
MANUFACTURERS; RURAL AREAS; AUTOMOTIVE
ENGINES; TRAFFIC CONTROL; ACCIDENTS;
PERFORMANCE; DRIVING CYCLE

<678>

U.S. Dept. of Transportation; U.S. Environmental
Protection Agency
ADDRESS: Washington, DC
TITLE: Study of Potential for Motor Vehicle Fuel
Economy Improvement: Air Quality and
Emissions Panel Report

Report No. 3, 54 p.

1975, January 10

KEYWORDS: FUEL ECONOMY; MILEAGE; AUTOMOTIVE
EMISSIONS; AIR QUALITY; DIESEL ENGINES;
TABLES (DATA); TRUCKS; FORECASTING; GROWTH;
HYDROCARBONS; CARBON MONOXIDE; NITROGEN
OXIDES; AUTOMOBILES; HISTORY; GASOLINE;
MODELS; TRANSPORTATION

<679>

U.S. Dept. of Transportation, Coast Guard
ADDRESS: Washington, DC 20590
TITLE: Boating Statistics: 1977

Nineteenth annual report, Report No. CG-357, 41 p.
1978, May 1

KEYWORDS: BOATS; SAFETY; ACCIDENTS; STATE
ANALYSIS; TABLES (DATA)

<680>

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U.S. Dept. of Transportation, Coast Guard
 ADDRESS: Washington, DC
 TITLE: Recreational Boating in the Continental
 United States in 1973 and 1976: The
 Nationwide Boating Survey

Report No. AD-A052907, CG-B-003-78, v.p.
 1978, March

KEYWORDS: RECREATION; TRANSPORTATION; BOATS;
 SAFETY; SURVEYS; QUESTIONNAIRES;
 COMMUNICATION; EQUIPMENT; ACCIDENTS; WATER
 TRANSPORTATION; MAPS; TABLES (DATA)
 AVAILABILITY: NTIS

<681>

U.S. Dept. of Transportation, Coast Guard, Marine
 Safety Council
 ADDRESS: Washington, DC
 TITLE: Final Environmental Impact Statement:
 Regulations for U.S. Tank Vessels Carrying
 Oil in Foreign Trade and Foreign Tank Vessels
 that Enter the Navigable Waters of the United
 States

Final Report, 131 p.
 1976, October

KEYWORDS: POLLUTION REGULATIONS; MARINE
 TRANSPORTATION; INTERNATIONAL TRADE;
 PETROLEUM; TANKER SHIPS; WATER POLLUTION;
 ENVIRONMENTAL IMPACT; CONSTRUCTION; DESIGN;
 ECONOMIC IMPACT

<682>

U.S. Dept. of Transportation, Federal Aviation
 Administration
 ADDRESS: Washington, DC 20591
 TITLE: Report to Congress by the Federal Aviation
 Administration on the Energy Efficiency of
 Agency Regulations

Report No. AD/A-034611, 120 p.
 1976, December

KEYWORDS: AVIATION FUELS; AIR TRANSPORTATION;
 AIRCRAFT; TRAFFIC; REGULATIONS; FUEL
 CONSUMPTION; TESTING; NOISE (SOUND); AIR
 POLLUTION CONTROL EQUIPMENT; VELOCITY;
 EQUIPMENT; FUEL ECONOMY; EFFICIENCY
 AVAILABILITY: NTIS

<683>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Aviation Policy
 ADDRESS: Washington, DC 20591
 TITLE: Aviation Forecasts - Fiscal Years 1978-1989

Report No. FAA-AVP-77-32, 169 p.
 1977, September

KEYWORDS: FORECASTING; AVIATION; STATISTICS;
 AIRCRAFT; SOCIO-ECONOMIC FACTORS; COMMUTING;
 ECONOMETRIC MODELS; AIR TRANSPORTATION;
 PHOTOGRAPHS; REGIONAL ANALYSIS; REVENUE;
 PASSENGER TRANSPORTATION; CARGO
 TRANSPORTATION; TABLES (DATA); GRAPHS
 (CHARTS); MATHEMATICAL MODELS; AIRPORTS

<684>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Aviation Policy
 ADDRESS: Washington, DC 20591
 TITLE: Terminal Area Forecast - 1978-1980

Report No. FAA-AVP-77-17, v.p.
 1977, April 8

KEYWORDS: FORECASTING; PASSENGER ENPLANEMENTS;
 AIRPORTS; MAPS; REGIONAL ANALYSIS; TABLES
 (DATA); GROWTH; AIR TRANSPORTATION; AVIATION
 AVAILABILITY: NTIS

<685>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Aviation Policy
 ADDRESS: Washington, DC 20591
 TITLE: Third Annual FAA Forecast Conference
 Proceedings

Report No. FAA-AVP-78-7, proceedings of
 conference held in Reston, Virginia, December
 1977, 68 p.

1978, June

KEYWORDS: FORECASTING; AIR TRANSPORTATION;
 FEDERAL AVIATION ADMINISTRATION; PLANNING;
 STATE GOVERNMENT; LOCAL GOVERNMENT;
 COMMUTERS; CONFERENCES

<686>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Aviation Policy,
 Aviation Forecast Branch
 ADDRESS: Washington, DC 20591
 TITLE: Profiles of International Passengers at
 U.S. Airports, 1976

Report No. FAA-AVP-77-27, 319 p.
 1977, April

KEYWORDS: AIRPORTS; INTERNATIONAL TRAVEL;
 PASSENGER TRANSPORTATION; AIR TRANSPORTATION;
 TABLES (DATA); GRAPHS (CHARTS); PASSENGER
 ENPLANEMENTS; REGIONAL ANALYSIS

<687>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Management Systems,
 Information and Statistics Division
 ADDRESS: Washington, DC 20591
 TITLE: Current Aviation Statistics: Air Traffic
 Activity, Fiscal Year 1976

Report No. AD-A032605, 22 p.
 1976, November

KEYWORDS: AIR TRANSPORTATION; STATISTICS; TABLES
 (DATA); TRAFFIC; AIRPORTS; AIRCRAFT; SERVICES
 AVAILABILITY: NTIS

<688>

U.S. Dept. of Transportation, Federal Highway
 Administration
 ADDRESS: Washington, DC
 TITLE: Highway Statistics, Summary to 1975

Report No. PB-273520, FHWA-HF-HS-575, 294 p.
 1977

KEYWORDS: HIGHWAY TRANSPORTATION; STATISTICS;
 HISTORY; UTILIZATION; FINANCING; FUELS;
 VEHICLES; LICENSING; AUTOMOBILE DRIVERS;
 TAXES; STATE GOVERNMENT; VEHICLE
 REGISTRATIONS; TRAVEL; LOCAL GOVERNMENT;
 TABLES (DATA)

AVAILABILITY: NTIS; GPO, Stock No. 050-001-00129-2

<689>

U.S. Dept. of Transportation, Federal Highway
 Administration
 ADDRESS: Washington, DC

<689> COFT.

TITLE: Computer Programs for Urban Transportation Planning: PLANPAC/BACKPAC. General Information Manual

450 p.

1977, April

KEYWORDS: COMPUTER PROGRAMS; URBAN TRANSPORTATION; PLANNING; INFORMATION; LAND USE; VEHICLE TRIPS; TRAFFIC; SIMULATION; TRAVEL; AIR QUALITY; BIBLIOGRAPHIES
 AVAILABILITY: GPO, Stock No. 050-001-00125-0

<690>

U.S. Dept. of Transportation, Federal Highway Administration
 ADDRESS: Washington, DC
 TITLE: Nationwide Personal Transportation Study: Transportation Characteristics of School Children

Report No. 4, 32 p.

1975, July

KEYWORDS: TRANSPORTATION; TRAVEL; TRAVEL TIME; MILEAGE; SCHOOLS; CHILDREN; BUSES (VEHICLES); BICYCLES; PUBLIC TRANSPORTATION; SURVEYS; PASSENGER TRANSPORTATION; STATISTICS; TABLES (DATA); VEHICLE MILES TRAVELED; DISTANCE; AGE GROUPS

<691>

U.S. Dept. of Transportation, Federal Highway Administration
 ADDRESS: Washington, DC
 TITLE: Nationwide Personal Transportation Study: Mode of Transportation and Personal Characteristics of Tripmakers

Report No. 9, 49 p.

1973, November

KEYWORDS: TRAVEL; PUBLIC TRANSPORTATION; MOTOR VEHICLES; TRANSPORTATION MODE CHOICE; PASSENGER TRANSPORTATION; AGE GROUPS; SURVEYS; CENSUS; AIR TRANSPORTATION; TRUCKS; VEHICLE MILES TRAVELED; DISTANCE; SOCIO-ECONOMIC FACTORS; TABLES (DATA)
 AVAILABILITY: GPO

<692>

U.S. Dept. of Transportation, Federal Highway Administration
 ADDRESS: Washington, DC
 TITLE: Highway Statistics: 1976

Report No. PHVA-HF-HS-76, 161 p.

1976

KEYWORDS: HIGHWAYS; STATISTICS; HIGHWAY TRANSPORTATION; VEHICLES; LICENSES; AUTOMOTIVE FUELS; FUEL CONSUMPTION; TAXES; STATE GOVERNMENT; VEHICLE REGISTRATIONS; REVENUE; RATES (COSTS); TRAVEL; VELOCITY; SPEED LIMITS; FINANCING; GOVERNMENT POLICIES; ROADS; MILEAGE; TABLES (DATA); OWNERSHIP; EXPENDITURES; LOCAL GOVERNMENT
 AVAILABILITY: GPO

<693>

U.S. Dept. of Transportation, Federal Railroad Administration
 ADDRESS: Washington, DC
 TITLE: Rail Passenger Statistics in the Northeast Corridor: 1974-75

61p.

1976, March

KEYWORDS: RAIL TRANSPORTATION; PASSENGER TRANSPORTATION; NORTHEASTERN STATES; CAPACITY; STATISTICS

<694>

U.S. Dept. of Transportation, Federal Railroad Administration, Government Industry Task Force on Railroad Electrification
 ADDRESS: Washington, DC 20590
 TITLE: A Review of Factors Influencing Railroad Electrification

v.p.

1974

KEYWORDS: RAIL TRANSPORTATION; RAILROADS; ELECTRIC VEHICLES; CAPITAL; EUROPE; JAPAN; RAILROADS; MILEAGE; GOVERNMENT POLICIES; ELECTRIC POWER; ELECTRIC RAIL SYSTEMS

<695>

U.S. Dept. of Transportation, National Highway Traffic Safety Administration
 ADDRESS: Washington, DC 20590
 TITLE: Automotive Fuel Economy Program: Second Annual Report to the Congress

Report No. DOT-HS-803207, 45 p.

1976, January

KEYWORDS: AUTOMOTIVE FUELS; FUEL ECONOMY; REGULATIONS; PASSENGER TRANSPORTATION; NATIONAL ENERGY PLAN; MANUFACTURERS; ENERGY CONSUMPTION; PETROLEUM; STANDARDS; RESEARCH PROGRAMS; VEHICLE MILES TRAVELED; MILEAGE; GOVERNMENT POLICIES; GASOLINE

<696>

U.S. Dept. of Transportation, National Highway Traffic Safety Administration
 ADDRESS: Washington, DC 20590
 TITLE: Applicability of Federal Motor Vehicle Standards to Electric and Hybrid Vehicles

Report No. DOT-HS-802611, 36 p.

1978, January

KEYWORDS: MOTOR VEHICLES; SAFETY; STANDARDS; PERFORMANCE; ELECTRIC VEHICLES; PASSENGER TRANSPORTATION; TESTING; ACCELERATION; HYBRID ELECTRIC-POWERED VEHICLES; BUSES (VEHICLES); TRUCKS; COSTS

<697>

U.S. Dept. of Transportation, National Highway Traffic Safety Administration, Office of Passenger Vehicle Research, Technology Assessment Division
 ADDRESS: Washington, DC 20590
 TITLE: Automotive Fuel Economy Contractors' Coordination Meeting: Summary Report

Report No. DOT-HS-803362, Summary Report of the Automotive Fuel Economy Research and Analysis Program Contractors' Coordination Meeting held in Washington, DC, April 24-26, 1978, 899 p.

1978

KEYWORDS: FUEL ECONOMY; FUEL CONSUMPTION; MEETINGS; STANDARDS; TRANSPORTATION; EFFICIENCY; RESEARCH PROGRAMS; DATA COLLECTION; STATISTICS; TECHNOLOGY; ENGINEERING; MANUFACTURING; MARKETING; GOVERNMENT POLICIES; DIESEL ENGINES; SPARK IGNITION ENGINES; AUTOMOTIVE TRANSMISSIONS; CONSUMERS; MAINTENANCE; VEHICLES; TESTING;

<697>

<697> CONT.

LUBRICANTS; DEMAND (ECONOMICS); ECONOMIC
MODELS; FORECASTING; TABLES (DATA); GRAPHS
(CHARTS); PHOTOGRAPHS; WEIGHT; COSTS;
AUTOMOTIVE INDUSTRY; BEHAVIOR; ENVIRONMENTAL
PROTECTION AGENCY

<698>

U.S. Dept. of Transportation, National Highway
Traffic Safety Administration, Technical
Reference Division

ADDRESS: Washington, DC 20590

TITLE: Fuel Economy ... A Subject Bibliography
from Highway Safety Literature

Report No. PB-265387, DOT HS-802 147, v.p.

1977, January

KEYWORDS: BIBLIOGRAPHIES; HIGHWAY TRANSPORTATION;
FUEL ECONOMY; ENERGY CONSERVATION;
PERFORMANCE; PASSENGER TRANSPORTATION;
TRUCKS; GASOLINE; FUEL CONSUMPTION;
AUTOMOTIVE EMISSIONS; GOVERNMENT POLICIES;
REGULATIONS; AUTOMOBILES; ENGINES; SAFETY
AVAILABILITY: NTIS

<699>

U.S. Dept. of Transportation, Office of the
Secretary

ADDRESS: Washington, DC

TITLE: The Status of the Nation's Highways:
Conditions and Performance. Report of the
Secretary of Transportation to the United
States Congress, Pursuant to Section 3,
Public Law 89-139

Congressional Committee Print No. 95-29, 483 p.

1977, September

SPONSOR: U.S. House of Representatives, Committee
on Public Works and Transportation

KEYWORDS: HIGHWAYS; TRAVEL; PERFORMANCE;
INVESTMENTS; REGIONAL ANALYSIS; FORECASTING;
TABLES (DATA); GRAPHS (CHARTS)

<700>

U.S. Dept. of Transportation, Office of the
Secretary

ADDRESS: Washington, DC

TITLE: 1974 National Transportation Study.
Manual I: General Information

Report No. OMB-04-S-72004, 66 p.

1972, May

KEYWORDS: TRANSPORTATION; STATE ANALYSIS;
SURVEYS; PLANNING; ORGANIZATIONS; STATE
GOVERNMENT; AIRPORTS; HIGHWAYS;
TRANSPORTATION SYSTEMS; GOVERNMENT POLICIES;
EFFICIENCY; SAFETY; ENVIRONMENTAL IMPACT;
TABLES (DATA)

<701>

U.S. Dept. of Transportation, Office of
Transportation Planning Analysis

ADDRESS: Washington, DC

TITLE: Catalog of Tabulations: 1974 National
Transportation Study

v.p.

1975, February

KEYWORDS: TRANSPORTATION; STATE ANALYSIS; TABLES
(DATA); URBAN TRANSPORTATION; CAPITAL COSTS;
GROWTH; HIGHWAYS; BUSES (VEHICLES); AIRPORTS;
RAIL TRANSPORTATION; COMMUTERS; VEHICLE MILES
TRAVELED

<702>

U.S. Dept. of Transportation, Transportation
Systems Center, Technology Sharing Program
Office

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Rural Passenger Transportation:
State-of-the-Art Overview

v.p.

1976, October

KEYWORDS: ELDERLY; RURAL TRANSPORTATION;
PASSENGER TRANSPORTATION; POVERTY; RURAL
AREAS; POPULATION (STATISTICS); OWNERSHIP;
TABLES (DATA); SOCIO-ECONOMIC FACTORS;
REGIONAL ANALYSIS; PUBLIC TRANSPORTATION;
AUTOMOBILES; MOBILITY; TRANSPORTATION
SYSTEMS; TRANSPORTATION DISADVANTAGED; STATE
ANALYSIS

<703>

U.S. Dept. of Transportation, Transportation
Systems Center, Technology Sharing Program
Office

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Light Rail Transit: State-of-the-Art
Overview

79 p.

1977, May

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R & D Policy; U.S.
Dept. of Transportation, Urban Mass
Transportation Administration

KEYWORDS: LIGHT RAIL TRANSIT; PASSENGER
TRANSPORTATION; URBAN TRANSPORTATION;
COMPARATIVE EVALUATIONS; REGIONAL ANALYSIS;
CANADA; RIGHT-OF-WAY; TABLES (DATA); MAPS

<704>

U.S. Dept. of Transportation, Transportation
Systems Center, Technology Sharing Program
Office

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Rural Passenger Transportation Primer

Selected Transportation Topics, 70 p.

1977, January

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R & D Policy
KEYWORDS: RURAL TRANSPORTATION; REGIONAL
ANALYSIS; POVERTY; MINNESOTA; SOUTH CAROLINA;
PASSENGER TRANSPORTATION; PLANNING;
PENNSYLVANIA; ELDERLY; BIBLIOGRAPHIES; STATE
ANALYSIS; TRANSPORTATION DISADVANTAGED

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U.S. Dept. of Transportation, Transportation
Systems Center, Technology Sharing Program
Office

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Mini-bus Profile

Selected Transportation Topics, 41 p.

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R & D Policy

KEYWORDS: BUSES (VEHICLES); PASSENGER
TRANSPORTATION; ENGINES; TABLES (DATA);
DESIGN; ELECTRIC VEHICLES; DIRECTORIES;
MANUFACTURERS; FUEL CONSUMPTION; PERFORMANCE

<706>

U.S. Dept. of Transportation, Transportation Systems Center, Transportation Information Division
 ADDRESS: Kendall Square, Cambridge, MA 02142
 TITLE: Transportation Safety Information Report: October, November, and December 1977 and Annual Summary

Quarterly Report, Report No. NTISUS/C/224-004, DOT-TSC-924-77-4, 113 p.

1978, March

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans, and International Affairs
 KEYWORDS: TRANSPORTATION; SAFETY; ACCIDENTS; INJURIES; GRAPHS (CHARTS); TABLES (DATA)
 AVAILABILITY: NTIS

<707>

U.S. Dept. of Transportation, Transportation Systems Center, Transportation Information Division
 ADDRESS: Kendall Square, Cambridge, MA 02142
 TITLE: Profiles of Scheduled Air Carrier Passenger Traffic for Top 100 U.S. Airports, August 6, 1976

Report No. FAA-AVP-77-30, 207 p.
 1977, July

SPONSOR: U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy, Aviation Forecast Branch
 KEYWORDS: AIR TRANSPORTATION; AIRCRAFT; TRAFFIC; PASSENGER TRANSPORTATION; AIRPORTS; TABLES (DATA); GRAPHS (CHARTS); PASSENGER PLACEMENTS; SERVICES

<708>

U.S. Dept. of Transportation, Urban Mass Transportation Administration
 ADDRESS: Washington, DC 20590
 TITLE: Urban Mass Transportation Act of 1964 and Related Laws, as Amended Through February 5, 1976

131 p.

KEYWORDS: URBAN TRANSPORTATION; MASS TRANSPORTATION; LEGISLATION; GOVERNMENT POLICIES; REGULATIONS
 AVAILABILITY: GPO, Stock No. 050-014-00007-0/Catalog No. TD 7.5:UR1/3

<709>

U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Technology Development and Deployment, Office of AGT Applications; U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office
 ADDRESS: DOT/UMTA, Trans Point Building, 2100 2nd Street SW, Washington, DC 20590; DOT/TSC, Kendall Square, Cambridge, MA 02142
 TITLE: People Mover Profiles

35 p.

1977, May

KEYWORDS: PASSENGER TRANSPORTATION; URBAN AREAS; PHOTOGRAPHS; DEMONSTRATION; OPERATION; PERFORMANCE; AUTOMATED GUIDEWAY TRANSIT
 AVAILABILITY: GPO

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<710>

U.S. Dept. of Transportation, Urban Mass Transportation Administration, Policy and Program Development, Office of Program Evaluation
 ADDRESS: Washington, DC 20590
 TITLE: The UMTA Rail Modernization Program. The Distribution of Capital Grant Funds for Rail Rehabilitation and Modernization, 1965-1977

1978, July

KEYWORDS: RAIL TRANSPORTATION; CAPITAL COSTS; ENERGY CONSUMPTION; RAPID TRANSIT SYSTEMS; GROWTH; GOVERNMENT POLICIES; REGIONAL ANALYSIS; US DOT; MAINTENANCE; RETROFITTING; MODERNIZATION; OPERATING COSTS; EMPLOYMENT; PASSENGER TRANSPORTATION; COMMUTERS; TABLES (DATA); RAILROADS; FUNDING

<711>

U.S. Environmental Protection Agency, Emission Control Technology Division, Standards Development and Support Branch
 ADDRESS: Ann Arbor, MI 48105
 TITLE: The Effect of Dynamometer Inertia Increment and Power Setting on Emissions and Fuel Economy for Motorcycles. Technical Support Report for Regulatory Action

Report No. PB-270721, HC 75-03, 13 p.

1975, August

KEYWORDS: MOTORCYCLES; DYNAMOMETERS; EMISSIONS; FUEL CONSUMPTION; TABLES (DATA); FUEL ECONOMY; TESTING; MOMENT OF INERTIA; WEIGHT
 AVAILABILITY: NTIS

<712>

U.S. Environmental Protection Agency, Emission Control Technology Division, Standards Development and Support Branch
 ADDRESS: Ann Arbor, MI 48105
 TITLE: Motorcycle Usage. Technical Support Report for Regulatory Action

Report No. PB-270710, HC 76-02, 15 p.

1976, January

KEYWORDS: SURVEYS; UTILIZATION; MOTORCYCLES; SIZE; TRANSPORTATION; EMISSIONS; COMMUTING; VEHICLE TRIPS; VELOCITY; TABLES (DATA); INFORMATION NEEDS
 AVAILABILITY: NTIS

<713>

U.S. Environmental Protection Agency, Office of Transportation and Land Use Policy
 ADDRESS: Washington, DC 20460
 TITLE: Bicycle Strategies to Reduce Air Pollution

Report No. EPA-400/9-78-008, 20 p.

1978, June

KEYWORDS: BICYCLES; AIR POLLUTION; ENVIRONMENTAL PROTECTION AGENCY; COMMUNITY DEVELOPMENT; EDUCATION; PLANNING; ROADS

<714>

U.S. House of Representatives, Committee on Government Operations
 ADDRESS: Washington, DC 20510
 TITLE: Department of Energy Organization Act

Congressional Committee Print, 95th Congress, 1st Session, Hearings on H.R. 4263, held March 28, 29, April 5, 6, 18, and 19, 1977, 940 p.
 1977

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<718> CONT.

KEYWORDS: US DOE; HEARINGS; ENERGY POLICY;
GOVERNMENT POLICIES

<715>

U.S. International Trade Commission
ADDRESS: Washington, DC 20436
TITLE: Automotive Trade Statistics, 1964-76

Series B, USITC Publication No. 839, 103 p.
1977, October

KEYWORDS: AUTOMOBILES; STATISTICS; TABLES (DATA);
INTERNATIONAL TRADE; IMPORTS; SALES; EXPORTS;
CONSUMPTION; PRICES; VEHICLE REGISTRATIONS

<716>

U.S. Senate, Committee on Energy and Natural
Resources
ADDRESS: Washington, DC
TITLE: Economic Impact of President Carter's
Energy Program

Congressional Committee Print, 95th Congress, 1st
Session, Publication No. 95-33, hearings held
May 3, 1977, 180 p.

1977

KEYWORDS: ECONOMIC IMPACT; ENERGY POLICY;
NATIONAL ENERGY PLAN; TAXES; GASOLINE; FUEL
ECONOMY; TRANSPORTATION; THERMAL INSULATION;
ENERGY CONSERVATION; INDUSTRIAL SECTOR;
UTILITIES; PRICES; PETROLEUM; NATURAL GAS;
COAL; RESEARCH; NUCLEAR ENERGY; NUCLEAR
REACTOR SAFETY; SOLAR ENERGY

<717>

U.S. Senate, Committee on Energy and Natural
Resources; Federal Energy Administration
ADDRESS: Washington, DC
TITLE: Regulation of Domestic Crude Oil Prices

Publication No. 95-8, 95th Congress, 1st Session,
233 p.

1977, March

KEYWORDS: REGULATIONS; PETROLEUM; PRICES;
ECONOMIC IMPACT; SUPPLY (ECONOMICS);
PRODUCTION; TABLES (DATA); GRAPHS (CHARTS);
LEGISLATION; GOVERNMENT POLICIES
AVAILABILITY: U.S. Senate Committee on Energy and
Natural Resources

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U.S. Senate, Committee on Energy and Natural
Resources, Subcommittee on Energy
Conservation and Regulation
ADDRESS: Washington, DC
TITLE: Mandatory Energy Conservation Amendments
to President Carter's Energy Program

Congressional Committee Print, 95th Congress, 1st
Session, Serial No. 95-102, hearings held
July 25, 26 and August 1, 1977, 748 p.

1978

KEYWORDS: AUTOMOBILES; NATIONAL ENERGY PLAN;
ENERGY CONSERVATION; TRANSPORTATION;
GOVERNMENT POLICIES; EQUIPMENT; EFFICIENCY;
STANDARDS; RESIDENTIAL SECTOR; SPACE HEATING;
ELECTRIC MOTORS; ELECTRIC POWER DEMAND;
PUMPS; ENERGY CONSUMPTION; BEVERAGES; FUEL
ECONOMY; TRUCKS; TABLES (DATA)

<719>

U.S. Senate, Committee on Energy and Natural
Resources, Subcommittee on Energy
Conservation and Regulation
ADDRESS: Washington, DC
TITLE: Status of Federal Energy Conservation
Programs. Parts 1 and 2

Congressional Committee Print, 95th Congress, 1st
Session, Serial No. 95-41, 282 p. for Part I,
992 p. for Part 2, hearings held April 4 and
6, 1977

1977

KEYWORDS: ENERGY CONSERVATION; GOVERNMENT
POLICIES; ENERGY SHORTAGES; IMPORTS;
PETROLEUM; ENERGY RESOURCES; ENERGY
CONSUMPTION; INDUSTRIAL SECTOR;
TRANSPORTATION; SOLAR ENERGY; PRICES; INCOME;
ENERGY SUPPLIES; RESIDENTIAL SECTOR;
RETROFITTING; BUILDINGS; APPLIANCES; GRAPHS
(CHARTS); COSTS; COGENERATION; ELECTRIC
POWER; TABLES (DATA); PERFORMANCE; STANDARDS;
AUTOMOBILES; EQUIPMENT

<720>

U.S. Senate, Committee on Energy and Natural
Resources, Subcommittee on Energy
Conservation and Regulation
ADDRESS: Washington, D.C.
TITLE: Diesel Fuel and Gasoline Conservation Act
of 1977

Congressional Committee Print, 95th Congress, 1st
Session, Serial 95-104, hearings held June
27, 1977, 130 p.

1978

KEYWORDS: DIESEL FUELS; GASOLINE; ENERGY
CONSERVATION; US DEPT OF COMMERCE; GOVERNMENT
POLICIES; TRUCKS; TRANSPORTATION; FOOD
INDUSTRY; CONSUMERS; MANUFACTURERS;
DISTRIBUTION; FUEL CONSUMPTION; LEGISLATION;
CARGO TRANSPORTATION

<721>

U.S. Senate, Committee on Governmental Affairs
ADDRESS: Washington, DC
TITLE: Department of Energy Organization Act

Congressional Committee Print, Report No. 95-164
to accompany S.826, 95th Congress, 1st
Session, 125 p.

1977

KEYWORDS: US DOE; LEGISLATION; ENERGY POLICY;
GOVERNMENT POLICIES; US FEA; US ERDA; FEDERAL
POWER COMMISSION; ENERGY CONSERVATION;
REGULATIONS
AVAILABILITY: GPO

<722>

U.S. Senate, Committee on Governmental Affairs
ADDRESS: Washington, DC
TITLE: Department of Energy Organization Act

Congressional Committee Print, 95th Congress, 1st
Session, Hearings on S.826 and S.591, held
March 7, 9, 15, 16, 17, 18, 22, 24, 25, 29,
31 and April 8, 1977, 1322 p.

1977

KEYWORDS: US DOE; ENERGY POLICY; LEGISLATION;
GOVERNMENT POLICIES; HEARINGS
AVAILABILITY: GPO

<723>

U.S. Travel Data Center

<723> CONT.

ADDRESS: Suite 450, 1100 Connecticut Ave. NW,
Washington, DC 20036
TITLE: 1976 National Travel Survey: Full Year
Report

1977

KEYWORDS: TRAVEL; SURVEYS; TABLES (DATA);
TOURISM; AUTOMOBILES; TRUCKS; AIR
TRANSPORTATION; REGIONAL ANALYSIS; VEHICLE
TRIPS
AVAILABILITY: \$20.00

<724>

U.S. Travel Data Center
ADDRESS: Suite 410, 1100 Connecticut Avenue NW,
Washington, DC 20036
TITLE: Proceedings: 1978 Travel Outlook Forum
Proceedings of conference held Washington Hilton
Hotel, Washington, D.C., December 1, 1977,
171 p.

1978

SPONSOR: Travel Research Association
KEYWORDS: TRANSPORTATION; TRAVEL; ENERGY POLICY;
FUEL CONSUMPTION; ENERGY CONSERVATION;
NATIONAL ENERGY PLAN; GRAPHS (CHARTS);
TOURISM; ECONOMIC ANALYSIS; INTERNATIONAL
TRAVEL; AIR TRANSPORTATION; RECREATIONAL
TRAVEL; AUTOMOBILES; BUSES (VEHICLES); RAIL
TRANSPORTATION; HOTELS; TABLES (DATA)
AVAILABILITY: \$25.00

<725>

U.S. Travel Data Center
ADDRESS: 1100 Connecticut Ave. NW, Washington, DC
20036
TITLE: Survey of State Travel Offices: 1977-1978
Annual Report, 82 p.
1977, October 11
KEYWORDS: TRAVEL; TOURISM; STATE ANALYSIS; PUBLIC
RELATIONS

<726>

U.S. Travel Data Center
ADDRESS: Washington, DC 20036
TITLE: 1976 National Travel Expenditure Study:
Summary Report

174 p.

1977, December 15

KEYWORDS: TRAVEL; EXPENDITURES; AUTOMOBILES;
TRUCKS; AIR TRANSPORTATION; VEHICLE TRIPS;
STATISTICS; HOTELS; PUBLIC TRANSPORTATION;
TRIPS (DATA); FOOD; WEEKEND TRAVEL;
SOCIO-ECONOMIC FACTORS; VEHICLE MILES
TRAVELED; BUSES (VEHICLES); RAIL
TRANSPORTATION
AVAILABILITY: \$25.00

<727>

U.S. Travel Data Center
ADDRESS: 1100 Connecticut Avenue NW, Washington
DC 20036
TITLE: The Impact of Travel on State Economies:
1976

56 p.

1978

KEYWORDS: TOURISM; TRAVEL; STATE ANALYSIS;
VEHICLE MILES TRAVELED; EXPENDITURES;
AUTOMOBILES; PUBLIC TRANSPORTATION; FOOD;
REVENUE; HOTELS; EMPLOYMENT; STATISTICS;

TABLES (DATA); PAYROLLS; ECONOMIC IMPACT
AVAILABILITY: \$15.00

<728>

Ulrichson, D.L.
Iowa State University, Dept. of Science and
Technology
ADDRESS: Ames, IA 50011
TITLE: Fleet Test of Re-Refined Oil. First
Annual Progress Report

Report No. CUO-8078-3, 10 p.

1977, May

SPONSOR: Energy Research and Development
Administration
KEYWORDS: LUBRICATING OILS; PETROLEUM PRODUCTS;
TESTING; PERFORMANCE; AUTOMOBILES; TRUCKS;
AUTOMOTIVE FLEETS; TRANSPORTATION;
COMPARATIVE EVALUATIONS; TABLES (DATA); OILS;
PETROLEUM REFINING
AVAILABILITY: NTIS

<729>

Underhill, B.; Gott, P.; Hurter, D.; Mathews, M.;
Netcalf, E.; Nicol, J.; Parry, J.; Stratton,
L.; Strong, S.; Sullivan, D.; Teeters, P.;
Whittier, A.
Little (Arthur D.) Inc.
ADDRESS: 25 Acorn Park, Cambridge, MA 02140
TITLE: Recommended Performance Standards for
Electric and Hybrid Vehicles

Report No. SAN/1335-1, 164 p.

1977, September

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; PERFORMANCE;
STANDARDS; RESEARCH; QUESTIONNAIRES; SURVEYS;
TABLES (DATA); GRAPHS (CHARTS)

<730>

Union College, Graduate Studies and Continuing
Education
ADDRESS: Schenectady, NY 12308
TITLE: Fourth National Conference on the "Effects
of Energy Constraints on Transportation
Systems"

Proceedings of a conference held at Union
College, Schenectady, New York, on August
1-5, 1977, v.p.

1977

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: TRANSPORTATION; CONFERENCES; ENERGY
SHORTAGES; PLANNING; EFFICIENCY; INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
INTRACITY TRANSPORTATION; RAIL
TRANSPORTATION; GOVERNMENT POLICIES; ELECTRIC
VEHICLES; RESEARCH; ENERGY CONSUMPTION

<731>

Bunnewehr, L.R.; Knoop, C.W.
Ford Motor Co., Ford Research Staff
TITLE: Electrical Component Modeling and Sizing
for RV Simulation

Paper No. 780215, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,

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<731> CONT.

February 27 - March 3, 1978, 13 p.

1978

KEYWORDS: ELECTRIC VEHICLES; MODELS; PERFORMANCE;
ELECTRIC VEHICLE RANGE; DRIVING CYCLE;
BATTERIES; SIZE; GRAPHS (CHARTS)AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<732>

Urban Consortium for Technology Initiatives,
Transportation Task Force; Public Technology
Inc.ADDRESS: PTI, 1140 Connecticut Ave NW,
Washington, DC 20036

TITLE: Urban Goods Movement

Information Bulletin, 22 p.

1978, February

SPONSOR: U.S. Dept. of Transportation

KEYWORDS: COMMODITIES; CARGO TRANSPORTATION;
TRUCKS; RAILROADS; LOCAL GOVERNMENT; URBAN
AREAS; TRAFFIC; INSTITUTIONAL FACTORS;
PLANNING

AVAILABILITY: NTIS

<733>

Urban Consortium for Technology Initiatives,
Transportation Task Force; Public Technology
Inc.ADDRESS: PTI, 1140 Connecticut Ave., NW,
Washington, DC 20036

TITLE: Alternative Work Schedules

Information Bulletin, 25 p.

1978, February

SPONSOR: U.S. Dept. of Transportation

KEYWORDS: SCHEDULING; COMMUTING; WORK; WORKING
CONDITIONS; RESEARCH; DEMONSTRATION;
DIRECTORIES; TRAFFIC; TRANSPORTATION

AVAILABILITY: NTIS

<734>

Urban Consortium for Technology Initiatives,
Transportation Task Force; Public Technology
Inc.ADDRESS: PTI, 1140 Connecticut Ave. NW,
Washington, DC 20036

TITLE: Asphalt Improvements

Information Bulletin, 29 p.

1976, October

SPONSOR: U.S. Dept. of Transportation

KEYWORDS: HIGHWAYS; CONSTRUCTION; ASPHALTS;
CONCRETES; RECYCLING; ADDITIVES

<735>

Urban Transportation Systems Associates Inc.

TITLE: Traffic Count Program. Volume I: Design
and Development. Volume II: Program
Documentation

1977, April

SPONSOR: Rhode Island Dept. of Transportation,
Planning Division; U.S. Dept. of
Transportation, Federal Highway AdministrationKEYWORDS: TRAFFIC COUNT; VEHICLE MILES TRAVELED;
AUTOMOBILE OCCUPANCY; SEASONAL VARIATIONS;
TRUCKS; WEIGHT; AUTOMOBILES; RHODE ISLAND;
MEASURING INSTRUMENTS; COMPUTER PROGRAMS;
HIGHWAYSAVAILABILITY: Rhode Island Dept. of
Transportation, Planning Division, State

Office Building, Providence, RI 02903

<736>

Vasler, L.R.; Broome, E.W.

Battelle Columbus Laboratories

ADDRESS: Columbus, OH

TITLE: Mathematical Model for the Design of Grids
for Electric Vehicle BatteriesPaper No. 780221, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

1978

KEYWORDS: ELECTRIC VEHICLES; LEAD-ACID BATTERIES;
MODELS; PERFORMANCE; DESIGN; TABLES (DATA)AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<737>

Van Abkoude, J.C.

McDonnell Douglas Corp., Douglas Aircraft Co.

ADDRESS: Long Beach, CA 90846

TITLE: Cost/Benefit Tradeoffs for Reducing the
Energy Consumption of the Commercial Air
Transportation System. Volume II: Market
and Economic AnalysesReport No. W77-23073, NASA CR-137924, HDC J7340,
375 p.

1976, June

SPONSOR: National Aeronautics and Space
Administration, Ames Research CenterKEYWORDS: BENEFIT COST ANALYSIS; ENERGY
CONSUMPTION; ENERGY CONSERVATION; AIR
TRANSPORTATION; PASSENGER TRANSPORTATION;
ECONOMIC ANALYSIS; OPERATING COSTS; MARKET;
TABLES (DATA); GRAPHS (CHARTS); DESIGN; FUEL
CONSUMPTION; COMPARATIVE EVALUATIONS; PROFITS

AVAILABILITY: NTIS

<738>

van Giesse, R.; Reinink, P.

H.V. Philips' Gloeilampenfabrieken

ADDRESS: Germany

TITLE: Design of the 4-215 D.A. Automotive
Stirling EnginePaper No. 770082, presented at the Society of
Automotive Engineers' International
Automotive Congress and Exposition, Cobo
Hall, Detroit, Michigan, February 28-March 4,
1977, 16 p.

1977

SPONSOR: Society of Automotive Engineers

KEYWORDS: STIRLING ENGINES; PERFORMANCE; FUEL
ECONOMY; DESIGN; DIAGRAMS; GRAPHS (CHARTS);
PHOTOGRAPHSAVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<739>

Veloza, W.D.

U.S. Dept. of Transportation, Office of Systems
Analysis and Information, Strategic Planning
Division

ADDRESS: Washington, DC 20590

TITLE: The Role of Travel Time Limits in Urban
Growth (A Postulated Urban Area Definition)

61 p.

1975, April

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KEYWORDS: URBAN AREAS; GROWTH; TRAVEL; URBAN TRANSPORTATION; PLANNING; TRANSPORTATION SYSTEMS

<740>

Veziroglu, T.M. (ed.)
Miami, University of, School of Engineering and Environmental Design; Miami University, Clean Energy Research Institute; International Association for Hydrogen Energy
ADDRESS: MU, Coral Gables, FL 33124
TITLE: First World Hydrogen Energy Conference. Volumes I - III

Proceedings of conference held March 1-3, 1976, Miami Beach, Florida, v.p.

1976

SPONSOR: Energy Research and Development Administration; Miami, University of, School of Continuing Studies

KEYWORDS: HYDROGEN; CONFERENCES; HYDROGEN PRODUCTION; NUCLEAR ENERGY; SOLAR ENERGY; COAL; THERMOCHEMICAL PROCESSES; GRAPHS (CHARTS); ELECTROLYSIS; TRANSMISSION; HYDROGEN STORAGE; VEHICLES; ALTERNATE FUELS; TRANSPORTATION; HYDRIDES; MATERIALS; UTILIZATION; AIRCRAFT; AUTOMOBILES; INDUSTRIAL SECTOR; RESIDENTIAL SECTOR; COMMERCIAL SECTOR; ECONOMICS

AVAILABILITY: School of Continuing Studies, P.O. Box 248005, University of Miami, Coral Gables, FL 33124 \$75.00 (while the supply lasts)

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Voltz, S.R.; Wise, J.J.
Mobil Research and Development Corp.
ADDRESS: Paulsboro, NJ 08066
TITLE: Development Studies on Conversion of Methanol and Related Oxygenates to Gasoline

Final Report, Report No. FE-1773-25, 336 p. 1976, November

SPONSOR: Energy Research and Development Administration

KEYWORDS: METHANOL; GASOLINE; CONVERSION; ECONOMICS; TECHNOLOGY; FLUIDIZED BED PROCESSORS; TABLES (DATA); GRAPHS (CHARTS); ALTERNATE FUELS; SYNTHETIC FUELS

AVAILABILITY: NTIS

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Voorhees (Alan M.) and Associates Inc.
ADDRESS: McLean, VA 22101
TITLE: Factors and Trends in Trip Length

National Cooperative Highway Research Program Report 48, NBS-NRC Publication 1582, 70 p. 1968

SPONSOR: American Association of State Highway Officials; U.S. Bureau of Public Roads; National Academy of Sciences, National Research Council, Highway Research Board
KEYWORDS: VEHICLE TRIPS; TRAFFIC; URBAN AREAS; LAND USE; URBAN TRANSPORTATION; TRANSPORTATION SYSTEMS; SOCIO-ECONOMIC FACTORS; PLANNING; FORECASTING; MEASUREMENT; TRAVEL; MODELS; INCOME; GRAPHS (CHARTS); TABLES (DATA); TRUCKS; COMMUTING; SHOPPING TRIPS; RECREATION; COMPUTERIZED SIMULATION; POPULATION (STATISTICS); EMPLOYMENT

AVAILABILITY: National Academy of Sciences, Highway Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$3.20

<743>

Voorhees (Alan M.) and Associates Inc.
ADDRESS: 7798 Old Springhouse Rd., Westgate Research Park, McLean, VA 22101
TITLE: Study of Future Paratransit Requirements

Report No. PB-264082, UMTA-IT-06-0104-77-2, 266 p. 1977, January

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration

KEYWORDS: FORECASTING; PARATRANSIT; URBAN AREAS; LEGAL ASPECTS; ENERGY CONSUMPTION; COSTS; AUTOMOBILES; VEHICLES; MASS TRANSPORTATION; COMMUTERS; VANPOOLS; COMPARATIVE EVALUATIONS; TABLES (DATA)

AVAILABILITY: NTIS

<744>

Wagner, J.R.; Naughton, J.; Brooks, W.P.; Davis, B.
Brookhaven National Laboratory, National Center for Analysis of Energy Systems
ADDRESS: Upton, NY

TITLE: Light Duty Highway Fleets: The Potential for Alternative Technologies in Fleets Operated by Corporations and State and Local Governments

Interim Briefing, presentation will be published as "Fleet Operator Vehicles: Summer 1977 Data," Report No. BNL-50904

1978, March 3

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation

KEYWORDS: AUTOMOTIVE FLEETS; MODELS; FORECASTING; MARKET; VEHICLE REGISTRATIONS; AUTOMOBILES; HYBRID ELECTRIC-POWERED VEHICLES; PURCHASING; WEIGHT; EQUIPMENT; TRUCKS; HIGHWAY TRANSPORTATION; PASSENGER TRANSPORTATION; CAPACITY; DIESEL FUELS; AUTOMOTIVE ENGINES; SIZE; TABLES (DATA)

<745>

Wakefield, E.H.
TITLE: The Consumer's Electric Car

136 p.

1977

KEYWORDS: ELECTRIC VEHICLES; AUTOMOBILES; DESIGN; FORECASTING; REGULATIONS; ECONOMICS; EFFICIENCY; COMPARATIVE EVALUATIONS; TECHNOLOGY; BATTERIES; OPERATION; CONTROL; DIAGRAMS; GRAPHS (CHARTS)

AVAILABILITY: Ann Arbor Science Publishers Inc., 230 Collingwood, P.O. Box 1425, Ann Arbor, MI 48106 \$9.95

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Walbridge, E.W.
Illinois, University of, College of Engineering
ADDRESS: Box 4348, Chicago, IL 60680
TITLE: Per Passenger-Mile Energy Consumption and Costs for Suburban Commuter Service Diesel Trains

Report No. PB-242232, UMTA-IL-11-0006-74-1, 59 p. 1974, August

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration

KEYWORDS: ENERGY CONSUMPTION; DIESEL ENGINES; RAIL TRANSPORTATION; COMMUTING; COSTS; POLLUTION; SERVICES; AUTOMOBILES; COMPARATIVE EVALUATIONS; CHICAGO

AVAILABILITY: NTIS

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Walderhaug, A.J.

U.S. Dept. of Commerce, Bureau of Economic Analysis

ADDRESS: Washington, DC 20230

TITLE: Revised Input-Output Tables for the United States: 1967

Report No. PB-270259, BEA-SP 77-029, 64 p.
1977, JuneKEYWORDS: INPUT-OUTPUT ANALYSIS; INDUSTRIES;
DEMAND (ECONOMICS); SUPPLY (ECONOMICS);
PRODUCTION; SALES; PRICES; INVENTORIES;
COSTS; CONSUMERS; STATISTICS; TABLES (DATA);
INDUSTRIAL SECTOR; COMMERCIAL SECTOR;
RESIDENTIAL SECTOR; IMPORTS; TRANSPORTATION
AVAILABILITY: NTIS

<748>

Walker, D.L.; Boord, J.O.; Pigott, J.S.; Sutton,
E.P.

Champion Spark Plug Co.

TITLE: How Passenger Car Maintenance Affects Fuel Economy and Emissions

Paper No. 780032, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 12 p.

1978

KEYWORDS: FUEL ECONOMY; MAINTENANCE; AUTOMOTIVE
EMISSIONS; AUTOMOBILES; REPAIR; AUTOMOBILE
DRIVERS; TESTING; FUEL CONSUMPTION;
AUTOMOTIVE ENGINES; MILEAGE; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<749>

Walz, A.

Scitran

ADDRESS: Box 5456, Santa Barbara, CA 93108

TITLE: Contribution to the Theory of the Electric Vehicle

Report No. N76-15376, NASA TT-P-16817, 33 p.;
translated from Elektrotechnische Zeitschrift
Ausgabe, 94(11), 622-631

1975, December

KEYWORDS: ELECTRIC VEHICLES; MATHEMATICS;
BATTERIES; MECHANICS
AVAILABILITY: NTIS

<750>

Ward's Communications Inc

ADDRESS: 28 West Adams, Detroit, MI 48226

TITLE: Ward's Automotive Yearbook: 1978

Fortieth Edition, 126 p.

1978

KEYWORDS: AUTOMOTIVE INDUSTRY; INTERNATIONAL
TRADE; RECREATION VEHICLES; DIRECTORIES;
VEHICLES; MATERIALS; PRODUCTION; SALES;
TIRES; CANADA; AUTOMOBILES; MANUFACTURERS;
TRUCKS; CONSTRUCTION; EQUIPMENT; AGRICULTURAL
EQUIPMENT; INFORMATION; VEHICLE REGISTRATIONS
AVAILABILITY: \$35.00

<751>

Warner, P.

Ogle (David) Ltd.

ADDRESS: United Kingdom

TITLE: A Purpose-Built Electric Taxi

Paper No. 760124 presented at the Automotive Engineering Congress and Exposition, Detroit, Michigan, February 23-27, 1976, 5 p.
SPONSOR: Society of Automotive Engineers
KEYWORDS: ELECTRIC VEHICLES; TAXICABS; DESIGN
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.75

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Watts, W.W.

Argonne National Laboratory, Energy and Environmental Systems Division

ADDRESS: 9700 South Cass Avenue, Argonne, IL 60439

TITLE: Social Organization and Transportation Energy: An Annotated Bibliography

Report No. ANL-74-XX-5, 51 p.

1974, July

SPONSOR: Energy Research and Development Administration

KEYWORDS: BIBLIOGRAPHIES; ENERGY CONSUMPTION;
AUTOMOBILES; MASS TRANSPORTATION; RAIL
TRANSPORTATION; BENEFIT COST ANALYSIS;
DECISION MAKING; LAND USE; TRANSPORTATION
SYSTEMS; PLANNING; FUEL CONSUMPTION; LOCAL
GOVERNMENT

AVAILABILITY: NTIS

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Webster, W.H. (ed.)

U.S. Dept. of Energy, Assistant Secretary for Energy Technology, Division of Energy Storage Systems

ADDRESS: Washington, DC

TITLE: Battery and Electrochemical Systems Program Summary: FY 1977

Report No. DOE/ET-0014, v.p.

1978, April

KEYWORDS: ENERGY STORAGE; BATTERIES; FUNDING;
RESEARCH PROGRAMS; UTILIZATION;
ELECTROCHEMICAL CELLS

<754>

Weigel, W.

Scitran

ADDRESS: Box 5456, Santa Barbara, CA 93108

TITLE: Driving Cycles for Electric Urban Vehicles and Methods for Obtaining Them

Report No. N76-15375, NASA TT P-16822, 16 p.;

translated from Elektrotechnische Zeitschrift Ausgabe, 94(3), 142-146

1975, December

KEYWORDS: ELECTRIC VEHICLES; SIMULATION; TABLES
(DATA); URBAN TRANSPORTATION; TESTING
AVAILABILITY: NTIS

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Weimer, G.A.

TITLE: Materials Are the Key in Auto Weight Watching

Iron Age, 218(19), 33-39

1976, November 8

KEYWORDS: AUTOMOTIVE INDUSTRY; MATERIALS; WEIGHT;
PLASTICS; AUTOMOTIVE ENGINEERING;
PERFORMANCE; STEELS; FUEL ECONOMY; CORROSION;
PROCESSING; MANUFACTURING; ALUMINUM

<756>

Weiner, E.
U.S. Dept. of Transportation, Office of the
Secretary, Office of Assistant Secretary for
Policy, Plans and International Affairs,
Office of Transportation Planning Analysis,
Urban Analysis Program
ADDRESS: Washington, DC
TITLE: Urban Area Results of the 1974 National
Transportation Study

9 p.

1975, January

KEYWORDS: TRANSPORTATION SYSTEMS; SURVEYS; URBAN
AREAS; PLANNING; CAPITAL COSTS; HIGHWAYS;
PUBLIC TRANSPORTATION; REVENUE; URBAN
TRANSPORTATION; OPERATING COSTS

<757>

Weiner, E.; Poole, B.
U.S. Dept. of Transportation, Assistant Secretary
of Transportation Planning Analysis,
Evaluation and Planning Analysis Division,
Urban Analysis Program
ADDRESS: Washington, DC
TITLE: Some Urbanized Area Journey to Work
Statistics

1974, May 5

KEYWORDS: URBAN AREAS; COMMUTING; VEHICLE TRIPS;
TRANSPORTATION; TABLES (DATA); PASSENGER
TRANSPORTATION; POPULATION (STATISTICS);
REGIONAL ANALYSIS; STATE ANALYSIS

<758>

Wheeler, P.R.
U.S. Congress, Congressional Budget Office,
Natural Resources and Commerce Division
ADDRESS: Washington, DC
TITLE: Railroad Reorganization: Congressional
Action and Federal Expenditures Related to
the Final System Plan of the U.S. Railway
Association

Background Paper No. 2, 58 p.

1976, January 15

KEYWORDS: RAIL TRANSPORTATION; GOVERNMENT
POLICIES; EXPENDITURES; BUDGETS; PLANNING;
FUNDING; ECONOMICS; LEGISLATION

AVAILABILITY: GPO \$1.60

<759>

White, K.E.
Exxon Enterprises Inc.
TITLE: A Digital Computer Program for Simulating
Electric Vehicle Performance

Paper No. 780216, presented at the Society of
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Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 16 p.

1978

KEYWORDS: ELECTRIC VEHICLES; COMPUTERIZED
SIMULATION; COMPUTER PROGRAMS; MODELS;
DESIGN; AUTOMOTIVE CONTROL SYSTEMS;
PERFORMANCE; BATTERIES; DRIVING CYCLE; GRAPHS
(CHARTS)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<760>

White, S.B.; Clayton, C.A.; Bressler, L.D.;
Stewart, J.R.

<756>

Research Triangle Institute; North Carolina,
University of, Highway Safety Research Center
ADDRESS: RTI, P.O. Box 12194, Research Triangle
Park, NC 27709
TITLE: Improved Exposure Measurements

Report No. RTI 2520-760, v.p.

1975, September 30

SPONSOR: U.S. Dept. of Transportation, National
Highway Traffic Safety Administration
KEYWORDS: VEHICLE MILES TRAVELED; ACCIDENTS;
SAFETY; AUTOMOBILE DRIVERS; RISKS; HIGHWAYS;
NORTH CAROLINA; URBAN AREAS; RURAL AREAS;
TABLES (DATA); POPULATION (STATISTICS); AGE
GROUPS; OWNERSHIP; VEHICLE REGISTRATIONS;
QUESTIONNAIRES; SEX; STATE ANALYSIS

<761>

Wilburn, M.C. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation and Land Development Policy

Transportation Research Record 565, 10 papers
prepared for the 54th Annual Meeting of the
Transportation Research Board, 75 p.

1976

KEYWORDS: TRANSPORTATION SYSTEMS; LAND USE; LAND
DEVELOPMENT; GOVERNMENT POLICIES; PLANNING;
SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL IMPACT;
HIGHWAYS; URBAN AREAS; SUBURBAN AREAS

AVAILABILITY: \$6.00

<762>

Williams, G.P., Jr.
Princeton University, Transportation Program
ADDRESS: Princeton, NJ 08540
TITLE: Energy Costs of Heavy Rail Transit
Construction

Masters Thesis, 76 p.

1978, June

KEYWORDS: BAY AREA RAPID TRANSIT SYSTEM;
CONSTRUCTION; INPUT-OUTPUT ANALYSIS; SYSTEMS
ANALYSIS; ENERGY CONSUMPTION; COSTS; TABLES
(DATA)

<763>

Williams, K.R.
Shell International Petroleum Co. Ltd.
ADDRESS: United Kingdom
TITLE: Energy Analysis and the Electric Car

Paper No. 760120 presented at the Automotive
Engineering Congress and Exposition, Detroit,
Michigan, February 23-27, 1976, 5 p.

1976

SPONSOR: Society of Automotive Engineers
KEYWORDS: TABLES (DATA); ELECTRIC VEHICLES;
BATTERIES; FUEL CELLS; GASOLINE; ENGINES;
ENERGY CONSUMPTION; CONSTRUCTION; COMPARATIVE
EVALUATIONS; INTERNAL COMBUSTION ENGINES
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<764>

Williams, L.J.
National Aeronautics and Space Administration,
Ames Research Center
ADDRESS: Moffett Field, CA 94035
TITLE: Air Transportation Energy Efficiency

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Paper presented at the Fourth National Conference on the "Effects of Energy Constraints on Transportation Systems," held at Union College, Schenectady, New York, on August 1-5, 1977, 46 p.

1977

SPONSOR: Energy Research and Development Administration

KEYWORDS: AIR TRANSPORTATION; EFFICIENCY; ENERGY CONSUMPTION; NASA; AIRCRAFT; GRAPHS (CHARTS); FUEL CONSUMPTION

<765>

Wilson, C.L.

Massachusetts Institute of Technology, Workshop on Alternative Energy Strategies (NAES)

ADDRESS: Cambridge, MA 02139

TITLE: Energy: Global Prospects 1985-2000

Report of the Workshop on Alternative Energy Strategies (NAES), 291 p.

1977

SPONSOR: National Science Foundation

KEYWORDS: ENERGY SUPPLIES; ENERGY DEMAND; ENERGY CONSUMPTION; FORECASTING; GROWTH; PRICES; FUELS; ENERGY CONSERVATION; PETROLEUM; RESERVES; OPEC; INTERNATIONAL TRADE; NATURAL GAS; PRODUCTION; COAL; NUCLEAR ENERGY; FOSSIL FUELS; UNCONVENTIONAL ENERGY SOURCES; TABLES (DATA); RECOVERY; DEVELOPING COUNTRIES; SUPPLY (ECONOMICS); DEMAND (ECONOMICS); GRAPHS (CHARTS); ENERGY BALANCE; INTERNATIONAL ANALYSIS

AVAILABILITY: McGraw-Hill Book Co., New York, NY

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Wilson, D.G.

TITLE: Alternative Automobile Engines

Scientific American, 239(1), 39-49

1978, July

KEYWORDS: ENGINES; DIAGRAMS; DIESEL ENGINES; SPARK IGNITION ENGINES; RANKINE CYCLE ENGINES; STIRLING ENGINES; BRAYTON CYCLE; COMPARATIVE EVALUATIONS; GAS TURBINE ENGINES; ELECTRIC VEHICLES; EFFICIENCY; AUTOMOTIVE EMISSIONS; COSTS; STRATIFIED CHARGE ENGINES; MANUFACTURING

<767>

Winfrey, R.; Howell, P.D.; Kent, P.M.

U.S. Dept. of Transportation, Federal Highway Administration, Offices of Research and Development, Environmental Design and Control Division

ADDRESS: Washington, DC 20590

TITLE: Truck Traffic Volume and Weight Data for 1971 and Their Evaluation

Report No. PB-271365, PHVA-RD-76-138, 159 p.

1976, December

KEYWORDS: TRUCKS; HIGHWAY TRANSPORTATION; WEIGHT; CLASSIFICATIONS; TABLES (DATA); FUELS; TRAFFIC

AVAILABILITY: NTIS

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Withrow, J.D., Jr.; Franceschini, J.P.

Chrysler Corp.

ADDRESS: Detroit, MI

TITLE: Engines for Tomorrow's Passenger Cars

Paper No. 760610, presented at the Society of Automotive Engineers' West Coast Meeting, San

Francisco, California, August 9-12, 1976, 9 p.

1976

SPONSOR: Society of Automotive Engineers

KEYWORDS: ENGINES; POLLUTION CONTROL; FUEL ECONOMY; COMPARATIVE EVALUATIONS; SPARK IGNITION ENGINES; STIRLING ENGINES; DIESEL ENGINES; WANKEL ENGINES; RANKINE CYCLE ENGINES; STRATIFIED CHARGE ENGINES; GAS TURBINE ENGINES; POLLUTION REGULATIONS; GRAPHS (CHARTS); ELECTRIC VEHICLES; AUTOMOTIVE EMISSIONS

AVAILABILITY: Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096

<769>

Wolfe, A.C.

Michigan, University of, Highway Safety Research Institute

ADDRESS: Ann Arbor, MI 48109

TITLE: Annotated Bibliography on Highway Travel Exposure Research Methods

Report No. PB-279862, DOT-HS-803295, Interim Report, 53 p.

1978, January

SPONSOR: U.S. Dept. of Transportation, National Highway Traffic Safety Administration

KEYWORDS: BIBLIOGRAPHIES; RESEARCH; VEHICLE MILES TRAVELED; HIGHWAY TRANSPORTATION; SAFETY; ACCIDENTS; AUTOMOBILE DRIVERS; AUTOMOBILE REGISTRATIONS; TRANSPORTATION; MOTOR VEHICLES; AUTOMOBILES; TRUCKS; TRAVEL; QUESTIONNAIRES; SURVEYS

AVAILABILITY: NTIS

<770>

Wosach, J.P.

Massachusetts Institute of Technology, Center for Transportation Studies

ADDRESS: 77 Massachusetts Ave., Cambridge, MA 02139

TITLE: Regulating and Insuring Pre-Arranged Ride Sharing

Report No. PB-269574, DOT-TST-76T-33, 58 p.

1976, September 30

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of University Research

KEYWORDS: CARPOOLING; VANPOOLS; BUSES (VEHICLES); REGULATIONS; PASSENGER TRANSPORTATION; PARATRANSIT; SURVEYS; URBAN TRANSPORTATION; INSURANCE; OWNERSHIP; STATE ANALYSIS

AVAILABILITY: NTIS

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Wouk, V.

Petro-Electric Motors Ltd.

TITLE: An Experimental ICE/Battery-Electric Hybrid with Low Emissions and Low Fuel Consumption Capability

Paper No. 760123, paper presented at the Automotive Engineering Congress and Exposition, Detroit, Michigan, February 23-27, 1976, 25 p.

1976

SPONSOR: Society of Automotive Engineers

KEYWORDS: ELECTRIC VEHICLES; FUEL CONSUMPTION; FUEL ECONOMY; ENERGY CONSERVATION; BATTERIES; PERFORMANCE; AUTOMOTIVE EMISSIONS; HYBRID ELECTRIC-POWERED VEHICLES; GRAPHS (CHARTS); DRIVE TRAIN SYSTEMS; DIAGRAMS; TABLES (DATA); ENERGY STORAGE

AVAILABILITY: Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096

<772>

Yunker, K.R.; Sinha, K.C.
Southeastern Wisconsin Regional Planning
Commission; Purdue University, School of
Engineering
ADDRESS: SWRPC, Waukesha, WI; PU, Lafayette, IN
TITLE: Energy Considerations in Urban
Transportation Planning

Traffic Quarterly, 29, 571-592
1975, October

KEYWORDS: URBAN TRANSPORTATION; FUEL CONSUMPTION;
PETROLEUM; ENERGY SUPPLIES; ENERGY DEMAND;
ENERGY SHORTAGES; VEHICLE MILES TRAVELED;
VEHICLES; EFFICIENCY; AUTOMOBILES; BUSES
(VEHICLES); RAIL TRANSPORTATION; VEHICLE
TRIPS; TABLES (DATA); AUTOMOBILE OCCUPANCY;
PLANNING; GRAPHS (CHARTS); MODELS

<773>

Fahavi, Y.
ADDRESS: 7304 Broxburn Ct., Bethesda, MD 20034
TITLE: The Effects of Transportation Systems on
the Spatial Distributions of Population and
Jobs

Paper presented at the Joint National Meeting of
the Operations Research Society and the
Institute of Management Science, Miami, FL,
November 3-5, 1976, 22 p.

1976, November

KEYWORDS: TRANSPORTATION SYSTEMS; DISTRIBUTION;
POPULATION (STATISTICS); EMPLOYMENT; URBAN
AREAS; URBAN TRANSPORTATION; MODELS; GRAPHS
(CHARTS)

<774>

Zandi, I.; Allen, W.B.; Morlok, E.R.; Ginn, K.;
Plaut, T.; Warner, J.
Pennsylvania, University of, Dept. of Civil and
Urban Engineering
ADDRESS: Philadelphia, PA 19174
TITLE: Transport of Solid Commodities Via Freight
Pipeline. Volumes I-V

Report No. DOT-TST-76T-35, 52 p. for Volume I;
DOT-TST-76T-36, 74 p. for Volume II;
DOT-TST-76T-37, 114 p. for Volume III;
DOT-TST-76T-38, 92 p. for Volume IV;
DOT-TST-76T-39, 20 p. for Volume V

1976, July

SPONSOR: U.S. Dept. of Transportation, Office of
University Research

KEYWORDS: COMMODITIES; INTERCITY TRANSPORTATION;
COMPARATIVE EVALUATIONS; CARGO
TRANSPORTATION; PIPELINE TRANSPORTATION; RAIL
TRANSPORTATION; HIGHWAY TRANSPORTATION;
GRAPHS (CHARTS); TABLES (DATA); COSTS;
MATHEMATICAL MODELS; DEMAND (ECONOMICS);
SLURRY PIPELINES; PNEUMATIC TRANSPORT;
SERVICES; ENVIRONMENTAL IMPACT; TRUCKS
AVAILABILITY: NTIS

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Ziff-Davis Publishing Co.
ADDRESS: One Park Avenue, New York, NY 10016
TITLE: Car and Driver

Monthly publication, v.p.

Monthly

KEYWORDS: AUTOMOBILES; MANUFACTURERS; ROAD TESTS;
FUEL ECONOMY; DESIGN; HIGHWAY TRANSPORTATION;
ACCELERATION; AUTOMOTIVE ENGINES;
PERFORMANCE; BRAKES; PRICES; AUTOMOTIVE
TRANSMISSIONS; AUTOMOBILE DRIVERS; WAWS;
PHOTOGRAPHS

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Zupan, J.M.; Pusharev, B.
Regional Plan Association
ADDRESS: New York, NY
TITLE: Where Express Buses Work

Paper published in Transportation Research Record
626, 35-38

1977

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration; Ford
Foundation; Rockefeller Foundation

KEYWORDS: RESIDENTIAL SECTOR; URBAN AREAS;
COMMUTERS; BUSES (VEHICLES); PARKING;
PASSENGER TRANSPORTATION; COSTS

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 626

<777>

Ewanzig, F.R. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20418
TITLE: Transit Planning and Operations

Transportation Research Record 625, 66 p.
1977

KEYWORDS: PASSENGER TRANSPORTATION; MARKETING;
PLANNING; ATTITUDES; COSTS; BUSES (VEHICLES);
AUTOMOBILES; MASS TRANSPORTATION; MODELS;
RAIL TRANSPORTATION; SURVEYS; TABLES (DATA);
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AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
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\$3.20

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