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TRANSPORTATION ENERGY CONSERVATION DATA BOOK

A Selected, Annotated Bibliography, Edition 3

By

A. R. Ehrenshaft

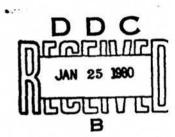
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November 1978

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Oak Ridge National Laboratory Oak Ridge, Tennessee

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Information Division

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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 Leboratory (ORNL) to develop a data base which would be used by the TEC staif 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 Book¹ was published in October 1976. Four quarterly supplements²⁻⁵ and the Transportation Energy Conservation Data Book, Edition 1.5⁶ were issued to augment the original document; each included an annotated bibliography. In October 1977, Transportation Energy Conservation Data Book, Edition 2⁷ was published. As a result of the extensive development of the collection

¹A. S. Loebl, 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. Loebl. 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. Loebl. 1977. Transportation energy conservation data book, supplement III. ORNL-5248. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁵D. B. Shonka, A. S. Loebl, 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. Loebl, 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. Loebl, 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 28 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 39 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 oilderived 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) of the Department of Energy to improve the efficiency of conventional vehicles and to develop electric vehicles and alternate fuels for gasoline. To support TEC's program, the Oak Ridge National Laboratory compiled a desktop reference of transportation statistics.

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.

Sample

→ Martini, W.R. Author -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.

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. <u>Fleet driving records</u> 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. <u>In-use dynamometer tests</u>, 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
- Relative differences (i.e., whether the EPA-implied ranking of models corresponds with the ranking from actual experience)
- 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:

on-road miles per gallon = $\alpha + \beta *$ (test miles per gallon). (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 |
|-----------------------|---------------|--------------------------------------|---------------------|---------------------|---------------------|-----------------------------------|---------------|
| EPA certification | 1974-1977 | 1831 | | | | С | |
| Union Oil | 1975 | 107 | | | | C C C | S |
| Dupont | 1974-1976 | 66 | | | x | С | |
| General Motors | 1975-1976 | 1714 | | | x | | |
| Mobil Oil | 1974-1977 | 63 | | | x | C | |
| Shell Oil | 1975-1977 | 30 | | | x | С | |
| Motor Trend | 1974-1977 | 121 | | | | | 0 |
| Shell Canada | 1975 | 46 | | | x | С | |
| Consumer Letters | 1974-1977 | 134 | | x | | | |
| Consumers Union | 1975-1977 | 83 | | | | | 0 |
| TRU | 1974-1977 | 77 | x | | | | |
| Maryland Department | (F61) | | | | | | |
| of Transportation | 1974-1977 | 845 | x | | | | |
| Maine Department of | | S703075 | 27.5 | | | | |
| Transportation | 1974-1977 | 18 | x | | | | |
| EPA emission | | | 200 | | | | |
| 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 | | |

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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.

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

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:

- 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 consumerdriving results were adopted as the data base most representative of onthe-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.

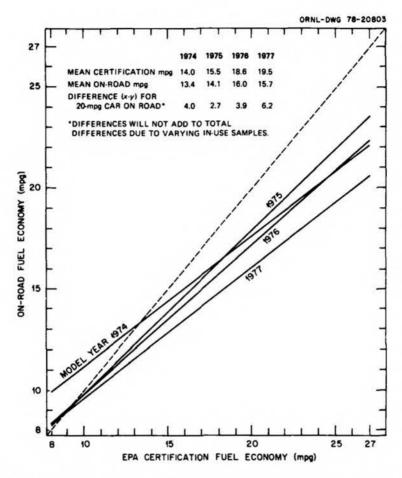


Fig. 1. Linear relation of EPA certification to on-road fuel economy for model years 1974 through 1977. Source: Compiled from B. D. McNutt, D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department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

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.

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 passengermile (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 (circuity) 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

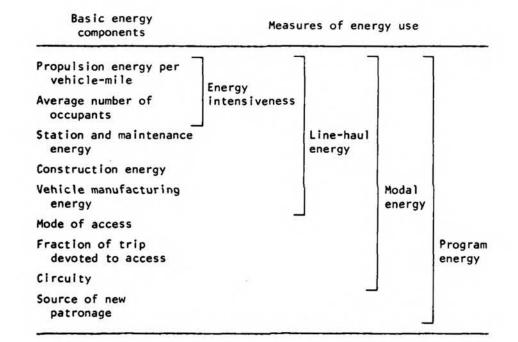


Fig. 1. Hierarchy of measures of energy use. Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. p. 8.

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

| Mode of | Vehicle pro | pulsion energy a | City (system) | | |
|------------------|--------------------|-----------------------|---|--|--|
| transportation | (mpg) ^b | (Btu/mile) | | | |
| Automobile | 7.5 | 16,790 | General urban (six seat) | | |
| | 11.4 | 10,970 | General urban ^d | | |
| | 13.5 | 9,260 | General urban ^e | | |
| | 13.9 | 8,990 | New York metropolitan area (1972) | | |
| | 15.0 | 8,330 | General urban (four seat) ^C | | |
| | 22.5 | 5,260 | General urban (light car) g | | |
| Vanpoo1 | 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 | | |
| Heavy rail (old) | 0.52 | 241,240 | New York City (Staten Island Rapid Transit) ^k | | |
| | 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) | | |
| | 1.72 | 72,880 | New York/New Jersey (PATH)k | | |
| | 2.02-3.31 | 37,800-62,000 | Five cities (1964) ⁷ | | |
| | 2.04 | 61,400 | New York City (Transit Authority) | | |
| | 2.09 | 59,800 | New York/New Jersey (PATH) ^m | | |
| | 2.41 | 51,879 | Chicagok | | |
| | 4.00 | 31,300 | Clevelande | | |

16

Vehicle propulsion energy Mode of City (system) transportation $(mpg)^b$ (Btu/mile) San Francisco (BART)^k Heavy rail (new) 1.07 117,100 Philadelphia (Lindenwold)^k 1.15 109,020 1.23 San Francisco (BART)ⁿ 101,780 Philadelphia (Lindenwold)^o Philadelphia (Lindenwold)^m 1.44 86,900 1.45 86,100 San Francisco (BART, actual) 1.78 70,080 San Francisco (BART, projected) 2.13 58,800 2.23 56,175 San Francisco (BART, actual)P 2.57-2.84 44,000-48,580 San Francisco (BART, projected)p San Franciscot Commuter rail 0.80 154,500 San Francisco 0.96 129,900 Chicago (average)k, 1.14 109,350 New York (average) 1.21 103,500 Philadelphia (average)^k
Boston^k 1.21 103,000 1.27 98,213 Several cities (1964) 1.80-2.90 43,150-69,540 Philadelphia (SEPTA, city) g Light rail 1.19 105,000 Philadelphia (SEPTA, Red Arrow) g 1.45 86,400 Pittsburgh^k 1.54 81,284 San Francisco (MUNI) 1.66 75,147 Rochester (proposed) 2.17 57,750 Newarkk 2.41 51,992 New York City (Transit Authority) 3.6 34,940 Bus General urban (local bus)i 3.6 34,740 General urban⁹ 3.8 32,660 4.0 Atlanta (1976)q 31,270

Table 1 (continued)

Table 1 (continued)

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

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 KWhr(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 | Vehicle occupancy (passenger-miles | Load factor (passenger-miles |
|---|------------------------------------|------------------------------|
| city (system) | per vehicle-mile) | per seat-mile) |
| Automobile | | |
| National home-to-work and | | |
| work-related travela | 1.4 | 0.28 |
| Average for specific cities | 0-1-2 | |
| Philadelphia b | 1.14 | 0.23 |
| | 1.12-1.24 | 0.22-0.25 |
| New Jersey ^c Albuquerque | 1.43 | 0.29 |
| Chicago ^d | 1.43 | 0.29 |
| San Diegod, | 1.48 | 0.30 |
| Baltimore ^d | 1.49 | 0.30 |
| | | NO. 14 (20 (20)) |
| New York metropolitan area | 1.5 | 0.30 |
| National urban area averaged | 1.63 | 0.33 |
| Light rail | | |
| Average for specific cities | 0 / | 0.15 |
| Newark ^J | 9.4 | 0.15 |
| Philadelphia (SEPTA, city) ^f | 17.7 | 0.28 |
| Philadelphia (SEPTA, Red Arrow) | 17.8 | 0.28 |
| San Francisco | 23.6 | 0.37 |
| Cleveland ^d _f | 26.5 | 0.42 |
| Pittsburgh ^J | 27.8 | 0.44 |
| Heavy rail | | |
| Old systems | | |
| New York/New Jersey (PATH) | 17.3 | 0.24 |
| Chicago (1973) \mathcal{G} | 18.6 | 0.26 |
| New York City (Transit Authority, | | |
| 1973) <i>9</i> | 19.7 | 0.27 |
| Boston (includes light rail) | 25.6 | 0.36 |
| Chicagof | 20.7 | 0.29 |
| Clevelandf | 23.9 | 0.33 |
| New York City (Transit Authority) | 25.0 | 0.35 |
| Philadelphia (SEPTA) f | 28.8 | 0.40 |
| New systems | | |
| San Francisco (BART) | 19.8 | 0.27 |
| San Francisco (BART, 1975) | 21.4 | 0.30 |
| Philadelphia (Lindenwold) | 22.5 | 0.31 |
| National urban area averageh | 24.5 | 0.34 |
| Urban bus | | |
| Average for specific cities | | |
| Albuquerque | 4.9 | 0.10 |
| Southern Connecticute | 9.8 | 0.20 |
| Chicago | 10.9 | 0.22 |
| | 10.3 | 11.66 |

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 | 11.5 | 0.23 |
| Dial-a-ride | | |
| Nine citiesh. | 1.00-2.86 | 0.05-0.15 |
| Seven cities ² | 0.8-3.3 | 0.04-0.17 |
| Median | 1.62 | 0.09 |
| Commuter rail | | |
| Average for specific cities | | |
| New York metropolitan areaf | 24.2 | 0.24 |
| Bostonf | 25.6 | 0.26 |
| Philadelphiaf . | 29.4 | 0.29 |
| New York metropolitan area Chicagof | 32.2 | 0.32 |
| 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 | 36.7 | 0.37 |
| San Francisco ^f | 47.5 | 0.48 |
| National urban area average h | 42.6 | 0.43 |
| Vanpool ; | | |
| Minneapolis (3M Company) $^{\mathcal{J}}$ | 10.5 | 0.87 |
| Carpool | | |
| New York/New Jersey | | |
| (Port Authority) ^k | 2.94 | 0.59 |
| El Segunda, California $^{\mathcal{L}}$ | 3.09 | 0.62 |
| Boston ^m | 3.16 | 0.63 |
| Connecticut ⁿ | 3.70 | 0.74 |

 $^{^{}lpha}$ U.S. Department of Transportation, Federal Highway Administration.

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

| Hode | 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, circuity, and source of patronage by urban transportation modes

| Mode | Mode of access (%) | Percentage of trip devoted to access | Circuity (relative to trip by auto) | Percentage of new patrons by former mode |
|--|--------------------|---|--|--|
| Automobile | NA^{α} | 0 | 1.0 | NA |
| Carpool | NA | 0 | 1.15 | 15 bus 25 carpool 60 single-occupant auto |
| Vanpoo1 | 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 | 15 | 1.2 | NA |
| (022) | 40 auto 40 walk | | | |
| Heavy rail | | | | |
| (new) | 10 bus | 18 | 1.3 | 45 bus |
| | 70 auto | | | 35 auto |
| | 20 walk | | | 10 new trip ^b 10 other |
| Commuter rail | 5 bus | 18 | 1.3 | 30 bus |
| | 15 walk | | | 40 auto |
| | 80 auto | | | 10 new trip ^b 20 other |
| Light rail | 20 bus | 10 | 1.2 | 50 bus |
| and the second of the second o | 50 walk | | | 30 auto h |
| | 30 auto | | | 10 new trip 10 other |
| Bus (express) | 25 auto | 10 | 1.1 | 25 bus |
| | 75 walk | | | 55 auto 10 new trip ^b 10 other |

 $^{^{}a}_{b}$ NA — Not applicable. There 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 | $^{\mathrm{NA}^b}$ |
| Average automobile | 7,860 | 10,160 | 10,160 ^a | NA NA |
| Carpool | 3,670 | 4,740 | 5,450 | 4,890 |
| Vanpoo1 | 1,560 | 2,020 | 2,420 | 7,720 |
| Dial-a-ride | 9,690 | 12,310 | 17,230 | (12,350)° |
| Heavy rail (old) | 2,540 | 3,100 | 3,990 | NA |
| Heavy rail (new) | 3,570 | 4,550 | 6,580 | (980)° |
| 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 |

 $a_{
m By}$ definition, there are no access energy requirements for automobiles, so modal energy equals line-haul energy.

bNA - Not applicable.

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.

Energy loss.

For new express bus service. Conventional bus service would show smaller savings.

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

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, circuities, 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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Reviewed by Margaret Fels Princeton University Princeton, New Jersey

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.

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ORNL-DWG 78-20000

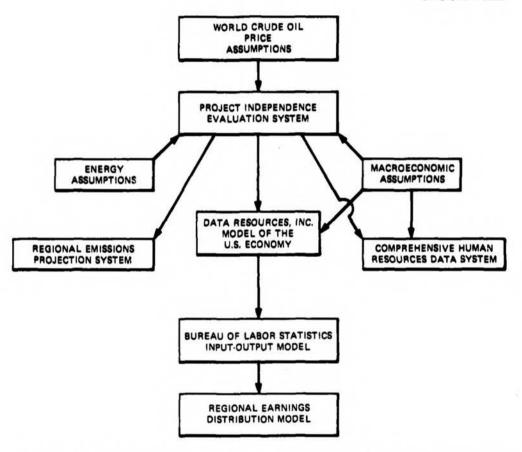


Fig. 1. Schematic representation of the energy/economic/environmental assessment system. Source: Adapted from Energy Information Administration. 1978. Energy Information Administration 1977 annual report to Congress, Vol. II. DOE/EIA-0036/1. U.S. Department of Energy, Washington, D.C. Fig. 2, p. 5.

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
 - 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.

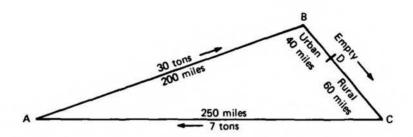
location with only one possible means of transportation (usually the automobile), a fair comparison cannot be made with other means of transport. Direct energy consumption and energy intensity alone are not always worthwhile information. Other factors such as the time factor and the hourly monetary value 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

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

PERCENT ABOVE OR BELOW NATIONAL MEAN (MEAN=753.9 GAL)

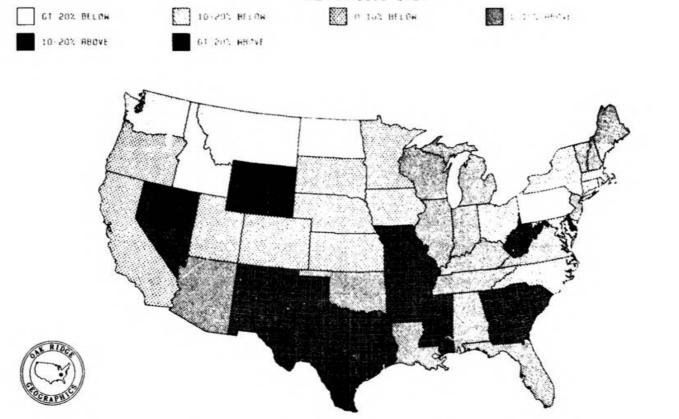


Fig. 1. 1975 gasoline consumption per vehicle. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 2, p. 7.

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 efficiences 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

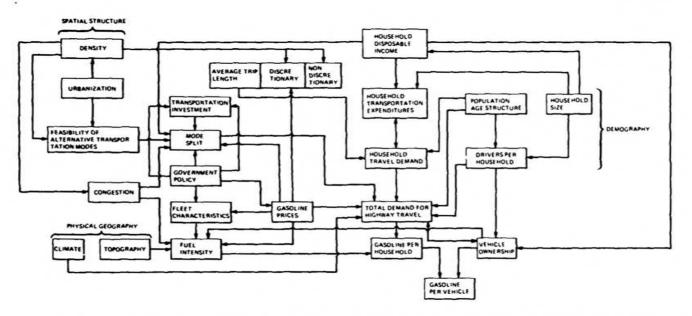


Fig. 2. Gasoline consumption per vehicle at the state level: a conceptual diagram. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 6, p. 20.

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.

Reviewed by David L. Greene Oak Ridge National Laboratory Oak Ridge, Tennessee

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 $NO_{\mathcal{X}}$ 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:

- 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.
- 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.
- 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.
- 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 Charles Lave and Kenneth Chomitz University of California, Irvine

SRI'S REPORTS ON RAILROAD PASSENGER AND FREIGHT TRANSPORTATION

SRI has produced two companion studies, Energy Study of Rail Passenger Transportation¹ 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." 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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Reviewed by Richard Weissbrod Johns Hopkins University Baltimore, Maryland . .

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 Charles Lave and Kenneth Chomitz University of California, Irvine

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 newcar 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:

- 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.
- Intermediate penetration (3% linear increase in 1976 to 65% of newcar 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 $NO_{\mathcal{X}}$ standard of 0.4 gpm, if enforced (diesels meet the current $NO_{\mathcal{X}}$ 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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Reviewed by Margaret Fels Princeton University Princeton, New Jersey

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." 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 1572, and for the United States for 1948 to 1974." 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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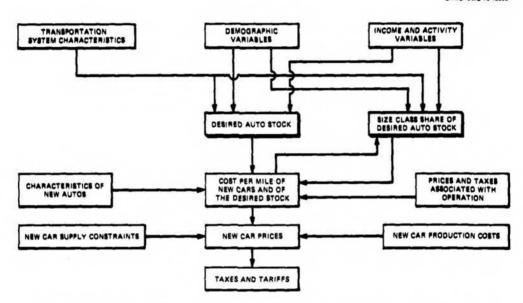


Fig. 1. Basic structure of the Wharton model. Long-run outputs are in boldfaced boxes. Source: Adapted from G. R. Schink and C. J. Loxley. 1977. An analysis of the automobile market: Modeling the long-run determinants of the demand for automobiles, Vol. I. Wharton EFA, Inc., Philadelphia. Chart 3B, p.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

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

Report No. LBL-6301, 159 p.
1977, Nay
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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYNORDS: HIGHWAY TRANSPORTATION; TRANSPORTATION
SYSTEMS; ELECTRIC VEHICLES; EMERGY STORAGE;
DUAL HODE ELECTRIC TRANSPORTATION SYSTEM;
TABLES (DATA); DESIGN; NAGNETIC FIELDS;
GRAPMS (CHARTS); CALIFORNIA; COSTS; ALTERNATE
FUELS; COMPARATIVE BYALUATIONS; SAFETY
AVAILABILITY; MIS

Bolger, J.G.; Mg, L.S.; Green, H.I.; Wallace, R.I. Lawrence Berkeley Laboratory ADDRESS: University of California, Berkeley, CA TITLE: Test of the Performance and Characteristics of a Prototype Inductive Power Coupling for Electric Highway Systems

Report Wo. LBL-7522, 74 p. 1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETHORDS: PERFORMANCE: TESTING: DESIGN: ELECTRIC
VERICLES: DRIVING CYCLE: EMERGY STORAGE:
ELECTRIC HIGHMAY SYSTEMS; COUPLINGS; BATTERIES
AVAILABILITY: MTIS Rooz, Allen 6 Hamilton Inc. ADPRES: 8330 East West Huy., Bethesda, HD 2001a TITLE: Faergy Use in the Harine Transportation Industry. Volume IV: Task III-Efficiency Improvements, Task IV-Industry Future

Final Peport, Volume IV, V.p.
1977, December
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation,
Non-Mighway Transport Systems
KETWORDS: EMERGY CONSUMPTION; MAPINE
TRANSPORTATION; FORECASTING; CARGO
TRANSPORTATION; GREAT LAKES; MATEP
TRANSPORTATION; MATERNAY TRANSPORTATION;
COASTAL REGIONS; RECREATION EMPLES; FISHING
INDUSTRY; FUEL CONSUMPTION; TABLES (DATA);

Brennand, J.; Curtis, R.; Fox, H.; Hamilton, W. General Pesearch Cotp. ADDPESS: P.O. Box 3587, Santa Barbara, CA 93105 TITLT: Electric and Hybrid Vehicle Performance and Design Goal Determination Study

Peport No. SAM/1215-1, GRC Publication No. CP-1-73a, 197 p.
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SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation R*THORDS: Electric VEHICLES; HYBRID FLYCTRIC-POWERED VEHICLES; PREFORMANCE; FUEL CONSUMPTION; LEAD-ACID BATTERES; EMERGI STOPAGE; URBAN TRANSPORTATION; PASSENGER TRANSPORTATION; TABLES (DATA); FUEL ECONOMY; OPERATING COSTS; GRAPHS (CHARTS); NODELS; STANDARDS; DESIGN

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

Draft Peport, UCB-ITS-RR-77-11, v.p.
1977, September
SPONSOP: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RFTWORDS: AUTOMOTIVE ENGINES: PLANNING:
TECHNOLOGY: DISSEL ENGINES: STIRLING ENGINES;
FUEL REFFICIENCY: GOVERNERS POLICIES:
ALTERNATE FUELS: HANDPACTURERS: COSTS: UTILIZATION: AUTOHOTIVE INDUSTRY: PRODUCTION: COMERCIALIZATION

Cataldo, R.I.
National Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OR 44135
TITLE: Peaponse of Lead-Acid Batteries to
Chopper-Controlled Discharge: Preliminary
Pasults

Technical Memorahdum, Report No. COMS/1044-1,
MASA TH-73834, 8 p.
1978, February
SPONSOS: U.S. Cept. of Energy, Division of
Transportation Energy Conservation
KYYORDS: LEAC-ACID BATTEREIS: SINGLATION:
TLECTRIC WEHICLES: VELOCITI; CONTROL:
BJPCTRIC DISCHARGES; CAPACITY; DESIGN; EMERGY
LOSSES
AVAILABILITY; HTIS

Cook, J.A.; Pucinari, C.A.; Lingscheit, J.M.; 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

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1976, October
SPONSOR: Energy Research and Development
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Energy Conservation
KIYWORDS: STIRLING ENGINES: HEAT EXCHANGERS:
COSTS: PERFORMANCE: REGENERATORS: GAS TURBINE
ENGINES: DIAGRAMS: GRAPHS (CHARTS): TRBLES
(DATA): STRESS ANALYSIS: THERMODYNABICS
AVAILABILITI: NTIS

Cyrus, J.D.
Sandia Laboratories
ADDRESS: Albuquerque, NH 87115; Liversore, CA
98550
TITLE: Proceedings of the Hybrid Vehicle Interest
and Capability Assessment Workshop

Report No. SAND 76-0645, conference held
September 22-23, 1976, Albuquerque, New
Hexico, 40 p.
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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Teergy Conservation
KETWORDS: HIBRID ELECTRIC-POWERED VEHICLES;
COMPERENCES; HEAT ENGINES; SYSTEMS ANALYSIS;
STOBACE; AUTOHOTIVE CONTROL SYSTEMS
AVAILABILITY; KTIS

Davis, D.D.; Renner, R.A.; Younger, F.C.; Epps, R.C.; Lerner, S.S. Lawrence Liversore Laboratory ADDRESS: University of california, P.O. Box 808, Liversore, CA 98550 TITLE: Determination of the Effectiveness and Feasibility of Regenerative Braking Systems on Electric and Other Automobiles. Volume I - Susmary

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1977, September 9
SPONSOP: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMORDS: ELECTRIC VERICLES: HYBRID
ELECTRIC-POMERRD VEHICLES: PEGEMERATIVE
ERAKING: HISTORY: RECOVERY: UTILIZATION:
FLYWHEELS: FOWER TRAIN SISTEMS: DIAGRARS:
BATTERIES: TABLES (DATA): GRAPHS (CHARTS):
COSTS: FEASIBILITY
AVAILABILITY: WIIS

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TITLE: Determination of the Effectiveness and reasibility of Regenerative Braking Systems on Electric and Other Automobiles. Volume II: Design Study and Analysis

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Administration, Division of Transportation
Energy Conservation
KYNGORDS: AUTOMOBILES; REEPGY STORAGE;
TECHPOLOGY; ELECTRIC VERICLES; REGEMERATIVE
PARING; HISTORY; DEVELOPMENT; TESTING;
TRANSPOPTATION; COST ANALYSIS; TABLES (DATA);
PATENTS; HYBRID ELECTRIC-POWERD VERICLES;
EMPSY COMSERVATION; BATTERIES
AVAILABILITY; MISS

Doggett, R.H.; Heyer, R.; Heller, H. International Research and Technology Corp. ADDRZSS: 7655 Old Springhouse Pd.: HcLean, VA 22101 TITLE: Ten Scenaios of Transportation Energy Conservation Using TECHET

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1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
Expords: POPECASTING: HODELS: TRANSPORTATION:
GASOLINT: RATIONING: EMERGY CONSERVATION:
ANTOHOTIVE EMGINES: BRANTOM CYCLE: STIRLING
EMGINES: INTERNAL COMMUNICATIVE MERGES:
RCOMONIC IMPACT: EMERGY INTERSITY: HARKET:
EM PROT COMSUMPTION: AUTOHOBILES: GROWTH:
VERICLE HILES TRAVELED: GROSS MATIONAL
PRODUCT: HILEAGE: TABLES (DATA)

Donnelly, J.J., Jr.; Poessler, W.U.
A-rospace Corp., Environment and Energy
Conservation Division, Hobile Systems Group,
Office of Energy Conservation
TITLE: Fuel Consumption and Engine Morsepower
Projections for the Highway Transportation
Sector

79 p.
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SPONSOR: U.S. Lept. of Energy, Division of
Transportation Energy Conservation, Office of
Highway Systems, Heat Engine Systems Bracch
REFFORDS: FOEL COSSUMPTION: HIGHWAY
TRANSPORTATION: AUTOMOBILES: TRUCKS: BUSES
(VERICLES): MOTORCYCLES: HILEAGE; ENGINES;
SALES: FORECASTING: WEIGHT; CLASSIFICATIONS;
TABLES (DATA); SIZE; FUEL ECONOMY

Pustin, H.O.; Denington, R.J. Hational Aeronautics and Space Administration, Levis Pessarch Center ADDRISS; Cleveland, OR 48135 TITLE: "est and Evaluation of 23 Electric Vehicles for State-of-the-Art Assessment

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SPENSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation REYWORDS: ELECTRIC TRRICERS: TESTING: RIBBRID ELECTRIC-POWERED TRRICERS: REGENERATIVE STATING: EMERGY 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: EPSE, P.O. Box 8, Linden, NJ 07036;

SAI,20335 Ventura Boulevard, Suite 423, Woodland Hills, CA 91364 TITLE: Fundamental Characterization of Alternate Puel Effects in Continuous Combustion Systems

Propert So. TID-28463, Technical Progress Report So. 1, v.p.
1978, January 11
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYNORDS: ALTERNATE PUELS; COMBUSTION; CHEMICAL PROPERTIES; HODELS; CONSUSTION PROPERTIES; HODELS; STURBINE ENGINES; HITROGEN; HITROGEN; HITROGEN; HITROGEN; THENDONNAMIC PROPERTIES; TRUBULENT FLOW; DROPLETS; SPRAYS; DECOMPOSITION; OXIDATION; GRAPHS (CHARTS)
AVAILABILITY: STIS

Foster, R.W.
Hiami, University of, Ryder Program in
Transportation; Escher Technology Associates
ADDRESS: UH, Coral Gables, FL 33124; ETA, St
John's, HI
TITLE: Alternative Fuels and Intercity Trucking

Report Wo. 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; EMERGY
COMSERVATION; DIESEL EMGINES; TRACTORS;
INTERNAL COMBUSTION EMGINES; FOEL
COMSUMPTION; HIGHWAY TRANSPORTATION;
OWNERSHIP; ZMPTY BACKHAUL; EMPRGY RESOURCES;
COMMERCIALIZATION; DESIGN; DEMONSTRATION;
TABLES (DATA): DIAGRAMS TABLES (DATA); DIAGRAMS AVAILABILITY: MIS

Poster, R.W.; Escher, W.J.D. Escher Technology Associates ADDRISS: St. Johns, HI TITLE: Hydrogen-Fueled Railroad Hotive Power Systems, A Feasibility Study

Report No. CONS/4707-1, ETA-PR-70, 250
1976, September
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KETHORDS: HYDROGEN FULLS; RAIL TRANSPORTATION;
ALTERNATE FULLS; FRAIBILITY; LOCOMOTYMES;
DIRSEL ENGINES; INTERNAL COMBUSTION ENGINES;
HODIFICATIONS; PERFORMANCE; PHOTOGRAPHS;
TABLES (DATA); GRAPHS (CHAPTS)
AVAILABILITY: HTIS

Goen, F.L.: Ivary, H.E.
SRI International, Center for Resource and
Environmental Systems, Chemicals and
Resources Group
ADDRESS: Henlo Park, CA 94025
FITLE: Diesel Cars in the United States

72 p.
1978, August
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KETWORDS: HOTOR VERICLES: DIESEL ENGINES; TRUCKS;
AUTONOTIVE ENISSIONS; STANDARDS; DIESEL
FUELS; HARKETING; FUEL ECONOMY; COSTS;
HAMUPACTURERS; TECHNOLOGY; GASOLINE; SURVEYS;
CONSIGNESS; TABLES (DATA); ELECTRIC VERICLES;
PRODUCTION; SALES; AUTONOBILES

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

Report No. ORNL-5391, 61 p.
1978, April
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197809: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
KEYMORDS: DETERMINANTS: GASOLINE: FUEL
CONSUMENTION: HODELS: STATE ANALYSIS:
SOCIO-ECONORIC FACTORS: AGE GROUPS:
EMPLOYMENT: TOWN ISS: VEHICLE RILES TRAVELED:
VEHICLE REGISTRATIONS: AUTOHOBILES:
COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

Greene, D.I.; O'Connor, T.P.; Patterson, P.D.; Bose, A.B.; Shonka, D.B. Oak Bidge Rational Laboratory, Energy Division, Regional and Orban Studies Section ADDERSS: Oak Ridge, TN 37830 TITLE: Regional Transportation Energy Conservation Data Book. Edition 1

Report Fo. ORFI-5835 Special, 530 p.
1978, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: REGIONAL ANALYSIS: EMERGY CONSERVATION;
HIGHWAY TRAMSPORTATION; FUEL CONSURPTION; AIR
TRAMSPORTATION; RILL TRAMSPORTATION;
POPOLATION (STATISTICS): EPERGY SUPPLIES:
STATE ANALYSIS: TRAMSSORTATION HORE CRAFFING
GRAPHS (CHAPTS): TRAMSSORTATION HORE CROICE;
TRATEL; GASOLINE; AUTOMOBILES: TRUCKS; BUSES
[VERICLES]: DIESEL FUELS: MATURAL GAS:
TOWNAGE: BOATS: CARGO TRAMSPORTATION;
PORECASTING: IMPORTS; PETROLEUR; COMPARATIVE
EVALUATIONS
AVAILABILITY: WIIS

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

Peport So. HCP/Wa2a8, v.p.
1978, July
SPOUSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETURNOS: VEHICLE TRIPS; DISTANCE; AUTOHOBILES;
FUEL ECONORY: GASOLINE: FUEL ADDITIVES;
TESTING: DRIVING CYCLE; DYMAROHETERS; OCTANE;
SPASORAL VARIATIONS; AUTOHOTIVE EMISSIONS
AVAILABILITI: GPO, Stock Bo. 061-000-00112-3

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

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

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KSYWODDS: ELECTRIC VEHICLES; TECHNOLOGY;
DEMONSTRATION; DEVELOPMENT; NICKEL-ZINC
BATTERIES; BATTERIES; LITHIUM-ALUMINUM/METAL
SULFIDE BATTERIES; LEAD-ACID BATTERIES;
PERFORMANCE; GRAPHS (CHARTS); EMERGY
COMSUMPTION

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
KEYMORDS: URBAN TRANSPORTATION: FORECASTING:
ELECTRIC VEHICLES: AIR POLLUTION: MOISE
POLLUTION: BEERGY CONSUMPTION: PETROLEUR;
LIFE-CYCLE COST; LOS ANGELES: PHILADELPRIA;
SAINT LOUIS (HISSOURI)

Heck, R.H.; Chang, H.; Hess, H.; Carrubba, R. Engelhard Industries, a Division of Engelhard Hinerale 6 Chemicals Corp. ADDRESS: Rento Park, Edison, BJ 08617 TITLE: Durability Testing at One Atmosphere of Advanced Catalysts and Catalyst Supports for Automotive Gas Turbine Engine Combustors. Part 1

Final Report, Report Bo. CONS/9816-1, MASA CR-135132, 223 p.
1977, June
SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KENVORDS: TESTING: CATALYSTS: AUTOHOBILES: GAS TURBINE BUGINES: CONBUSTORS: PERFORMANCE: EMISSIONS: LIFE (DURABILITY): TABLES (DATA): GRAPHS (CHARTS)
AVAILABILITY: HTIS

Hill, S.H.
Teledyne Continental Hotors, General Products
Division
ADDRESS: 76 Getty Street, Huskegon, HI 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
KETHORDS: AUTOHOBILES: DISSEL PHOINES:
TECHNOLOGY: RESEARCH PROGRAMS: FUEL ECONOMY:
DESIGN: AUTOHOTIVE EMISSIONS: SIMULATION:
EXHAUST RECERCULATION SYSTEMS
AVAILABILITY: GPO

Hittman Associates Inc.
ADDRESS: Columbia, HD 21045
TITLE: Evaluation Hethodology for Hear Ters
Devices and Strategies to Reduce Righway
Vehicle Use. Volume I: Technical Report.
Volume II: Appendices

Peport No. BIT-695, v.p.
1977, August
SPOUSOR: Energy Research and Development
A*ministration, Division of Transportation
Energy Conservation
ETHOPDS: BIGHEAT TRANSPORTATION: EMERGY
COMSERVATION: EMPICIEMENT: FUEL ECOMONT:
FERSIBILITY: RETROFITTING; COMPARATIVE
EVALUATIONS: TRUCKS: AUTOMOSILES: MARKET:
PRISSHORT TRANSPORTATION: CARGO
TRANSPORTATION: BUSES (VERICLES): MODELS:
MOBILITY: EMPIROSHEMTAL IMPACT: ECOMONICS;
GRAPHS (CHARTS): EQUIPMENT: GOVERNHEMT
POLICIES: RETROFIT DEVICES

loward, E.B.; Barber, B.Y.; Jordan, A.C.; Seaborn, C.C.

Dak Pidge Mational Laboratory, Information Division, Information Center Complex, Energy Information Center

1DDRESS: Oak Ridge, TS 37830

FITLE: Transportation Energy Conservation Data Book: A Selected, Annotated Bibliography. Efition 2 *eport No. OPML/EIS-115 (Part II of ORML-5320), 272 p.

**POPTT NO. OFFIL/EIS-118 (Part II of ORNL-5320), 272 b.

1977, October

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation Energy Conservation; Altremate FUELS; AUTONOSILES; BOSZES (VERICLES); CARGO TRANSPORTATION; ALTREMATE FUELS; AUTONOSILES; BOSZES (VERICLES); CARGO TRANSPORTATION; PETROLEUM; DERNAUD (ECONOMICS); DIFEST ENGINES; ECONOMICS; EFFICIENCY; ELECTRIC VERICLES; ENERGY CONSUMPTION; ENVIRONMENTAL IMPACT; FOREASTING; TUEL CONSUMPTION; FUEL ECONOMY; FUELS; GASOLEM; GOVERNMENT POLICIES; LEGISLATION; HASS TRANSPORTATION; RAIL TRANSPORTATION; STATISTICS; TRUCKS; UBBAN TRANSPORTATION; STATISTICS; TRUCKS; UBBAN TRANSPORTATION; HIGHER TRANSPORTATION; VERICLES; WATER TRANSPORTATION; ABSTRACTS

Jelavich, M.S.
Paucett (Jack) Associates Inc.
ADDRESS: 5858 Bisconsin Avenue, Suite 1150, Chevy
Chase, Mt 20015
TITLE: A Study of the Determinants of Freight
Hodal Choice

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

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SPONSOR: U.S. Cept. of Energy, Division of Transportation Energy Conservation
RETWORDS: CARGO TRANSPORTATION; DECISIONS; WEIGHT: IMPUT-OUTPUT AWALYSIS; COMMODITIES; FORECASTING; MODELS; RATES (COSTS); DISTANCE; DETERMINANTS

Relier, J.L.; Makaguchi, G.H.; Mare, J.C. Union Oil Co. of California, Research Dept. ADDRES: Bres, CA "ITLE: Methanol Fuel Hodification for Highway Webicle Use. Final Report

Peport No. ECP/#3683-18, v.p.
1978, July
SPOMSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETYORDS: HETRAROL: ALTERBATE FUELS: ALCOHOL
FUELS: EMGINES: MODIFICATIONS: GASOLINE:
PROPERTIES: VERICLES: UTILISATION:
PESPORRANCE: ENVIRONMENTAL IMPACT:

TRANSPORTATION; WATER; TESTING; TABLES (DATA); TOXICITY; SAPETY AVAILABILITY: WIIS

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

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

and Hybrid Vehicle Described.

P.

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

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

Report No. HCP/H1011-02, 30 p.

1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REYWORDS: WASTE REAT: FUEL ECONOMY: UTILIZATION:
TRUCKS: DIESEL ENGINES: SPARK IGEITION
ENGINES: GAS TURBINE ENGINES: STRINING
ENGINES: RANKIME CYCLE ENGINES: REGENERATION:
DRIVING CYCLE: ADIABATIC PROCESSES:
RECUPERATION: TURBOCHARGING:
TURBOCOMPOUNDING: GRAPHS (CHAPTS): TABLES
(DATA): DIAGRAMS
AVAILABILITY: GPO, Stock No. 061-000-00111-5

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

Report Bo. ORML/Sub-78/14285/1, Special, 6% p.
1978, October
SPONSOR: Oak Ridge Mational Laboratory, Energy
Division, Regional and Urban Studies Section;
U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REMODES: TRUCKS; IMPRITORIES; FORECASTING;
OWDERSHIP; GROWTH; HIGHWAI TRANSPORTATION;
UTILIZATION; VEHICLE REGISTRATIONS;
SOCIO-ECOMORIC PACTORS; VANS
AVAILABILITY; STIS

LHC Corp.
ADDRESS: 476 Dunn Circle, Sparks, NY 89431
TITLE: Evaluation of Selected Drive Components
for a Plywheel Powered Commuter Tehicle.
Final Report. Phase I

Report No. SAM/1164-1, LRC-770401-8, v.p. 1977, June 30 SPORSOR: Energy Research and Development

Administration, San Francisco Operations Office: U.S. Dept. of Fnergy, Division of Transportation Energy Conservation FETWOPPS: FLYWHEELS: FREEDY STODAGE: PLAGRAMS; GPAPHS (CHAPTS): ELECTRIC VEHICLES: TESTING; MODILS: NOTHS: BEARINGS: SHAPTS: SEALS AVAILABILITY: MTIS

Harous, A.
Hechanical Technology Inc.
ADDRTS: 968 Albany-Shaker Road, Lathar, KY
TITE: An Advanced Electric Rotor Transmission
for Flactric Vehicles: Development Plan.
Technical Report

Report No. C00/2835-3, v.p. 1977, November 1977, November
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
TRANSPORTATION TRANSPORTATION: DESIGN: PADRICATION; ELECTRIC VEHICLES;
HOPELS; TABLES (DATA); TRANSPORTATION; GRAPHS
(CHAPTS); TESTING
AVAILABILITY: HTIS

Harcus, A.: Pinkus, O.
Hechanical Technology Inc.
ADDRESS: Latham, RT
TITLE: Characterization Study of an Electric
Hotor-Transmission System for Electric
Yehicles: Technical Peport

Report No. COO/2835-2, v.p.
1977, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
FYMOPDS: ELECTRIC VEHICLES: PERFORMANCE: DESIGN:
BATTERIES: TRAINFOLOGY: TESTING:
SPECIFICATIONS: ELECTRIC NOTORS: EPPICIENCY:
ANTOMOTIVE ENGINEERING: COST ESTIMATES;
GPAPPS (CHARTS): TABLES (DATA)
AVAILABILITY: HTIS

Martini, W.P.
Washington, University of, Joint Center for Graduate Study ADDRESS: 10° Sprout Rd., Richland, WA 99352 "TTLE: Stirling Engine Design Manual

Final Pepor*, Report No. DOE/NASA/3152-78/1, WASA CP-135382, 370 p.
1978, April
SPOKSOF: G.S. Cept. of Energy, Division of Transportation Energy Conservation: National Aeronautics and Space Administration, Lewis Research Center
KEYWORDS: STIBLING ENGINES: DESIGN; HANDALS: RIBLIOGRAPHIES: PERFORMANCE: OPTIMIZATION: SIMULATION: HODELS: DIAGRAMS; RESEARCH AVAILABILITY: NTIS

McLean, A.F.; Baker, R.B.
Ford Notor Co.
ADDrESS: Dearborn, HI 48121
FITLE: Brittle Haterials Design, High Temperature
Gas Turbine. Volume 2: Ceramic Turbine Technology

Report Bo. AHRRC TR 78-14, DA-OD 4733, 12th Interis Report for the Period January -September 1977, 93 p. 1978, Rarch SPONSOR: U.S. Dept. of Defense, Army Materials and Mechanics Pessarch Center; U.S. Dept. of

Energy, Division of Transportation Energy Energy, Division of Transportation Energy Conservation KEYWORDS: HATERIALS: DESIGN: GAS TURBINES: CERANICS: ROTORS: TECHWOLOGI: HIGH TEMPERATURE: BRITTLENESS: FABRICATION: SILICON NITRIDES: TESTING: COMPUTER PROGRAMS: TABLES (DATA): GAS TORBISE ENGINES: SILICON CARBIDES: RECHANICAL PROPERTIES: PROTOGRAPHS: DIAGRAMS DIAGRAMS AVAILABILITY: MIIS

Mechanical Technology Inc., RSD Division TITLE: Characterization Study of an Electric Motor-Transmission System for Electric

Report No. HCP/H2835-01, v.p.
1978, Harch
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KETWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
AUTOHOBILE TRANSMISSIONS; TABLES (DATA);
GRAPHS (CHARTS)
AVAILABILITY: ETIS

Highdoll, P.: Hahn, W.F.
Booz, Allen & Hamilton Inc., Design and
Development Division
ADDRESS: Cleveland, OH &&131
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0595-78/1, MASA CP-13541, 140 Report No. DOE/RASA/0595-76/1, HADA CT. 157., p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program: Mational
Aeronautics and Space Administration, Levis
Remearch Center
KETWORDS: POWER TRAIN SISTEMS: ELECTRIC VEHICLES;
TECHNOLOGY ASSESSMENT; MOTORS: AUTOMOBILE
TRANSMISSIONS; HODELS; DESIGN; COMPUTERIZED
SIMULATION; DIAGRAMS; TABLES (DATA)
AVAILABILITY: HTIS

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

Proceedings of a conference held at Union College, Schenectady, New York, August 2-6, 1976, 408 p.

1976, 408 p.

1977, Hay
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: TRANSPORTATION SYSTEMS: EMERGY
COMSUMPTION: BERGY COMSERVATION: URBAN
TRANSPORTATION: BAY AREA RAPID TRANSIT
SYSTEM: CARGO TRANSPORTATION: RIL
TRANSPORTATION: BASEAGER TRANSPORTATION:
REGULATIONS: CARPOOLING: TRUCKS: FUEL
ECOMOMY: HUTCHITY TRANSPORTATION: RAPID
TRANSIT SYSTEMS: AIR TRANSPORTATION: TABLES
(DATA): COMPERENCES: COMPUTENIZED SYMULATION
AVAILABILITY: GPO, Stock NO. 060-000-00073-5

Hueller Associates Inc. ADDRESS: Baltisore, HD TITLE: Status of Alcohol Fuels Utilization

**chnology for Highway Transportation

Report Bo. HCP/H2923-01, 132 p.
1978, June
SPCSSOP: U.S. Tept. of Energy, Division of
Transportation Energy Conservation
KETPOPOS: ALTERNATE FUELS: UTILIZATION: ALCOHOL
FYDIS: HIGHWAY TRANSPORTATION: HETHABOL:
THANOL: TESTING: ENGINES: RAISSIONS:
PPPPORNANCE: FUEL ECONOMY: FUEL CONSUMPTION:
COMPARTIVE VALUATIONS: PROPERTIES: COSTS:
GRAPHS (CHAPTS): WATER
AVAILABILITY: HTIS

Nueller Associates Inc. ADDRESS: Baltimore, ND TITLE: Denaturants for Ethanol/Gasoline Slends

Peport No. RCP/M2C9M-01, 16 p.
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KTHORDS: ETHANOL: GASOLINE: ALTERNATE FUELS:
DEMATURANTS

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

Peport No. HCP/H 1011-01, v.p.
1978, January
SPOMSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KYYODDS: ELECTRIC VEHICLES: HYBRID
ELECTRIC-POWERED VEHICLES: EQUIPHENT:
TESTING: TABLES (DATA): BATTERIES: SURVEYS:
PEPFORMANCE: ELECTRIC VEHICLE RANGE: ENERGY
CONSTRIPTION: PELIABILITY
AVAILABILITY: HTIS

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

Report No. HCP/H1011-03/1, v.p.
1978, July
SPCNSOR: U.S. Cept. of Energy, Division of
Transportation Energy Conservation
KFYORDS: ELECTRIC VERICLES: HYBRID
ELECTRIC-POWER ED VEHICLES: TESTING; DRIVING
CYCLE; EMERGY CONSUMPTION; PERFORMANCE;
CESIGN: EATTERIES: TABLES (DATA); GRAPHS
(CHIPTS); RAMOFACTUREPS
AVAILABILITY: STIS

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

Peport No. CONF-770% 30/1, symposium held in the shington, DC, April 18-22, 1977, 103% p. 1978, February SPONSOR: U.S. Cept. of Energy, Division of Transportation Energy Conservation KRYMORDS: CONFERENCES: PROPULSION; AUTOHOBILES: GAS "UPSIFES; AUTOHOTIVE FUELS: PUELS: DIESEL PROFUES: STRILING ENGINES: STRILING ENGINES: HANKING CYCLE ENGINES: ELECTRIC VEHICLES: HYBRID

ELECTRIC-POWERED VEHICLES; STRATIFIED CHAPGE ENGINES; SPARK IGHTION ENGINES; AUTOHOTIVE EMISSIONS; POWEP TRAIN SYSTEMS AVAILABILITY: MIIS (WOOD AVAILABILETY: MIIS (WOOD AVAILABILETY:

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

Report Fo. COO/2633-3, v.p.
1978, February
5POMSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: BOLLERS; PANKINE CYCLE POWER SYSTEMS;
DESIGN: COMPARATIVE EVALUATIONS; TESTING;
VAPOR GENERATORS; MODELS; SIMULATION: DIAGRAMS
AVILABILITY: MITS.

Pefley, R.K.; Browning, L.H.; McCormack, M.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, H.E. 77-1, 108 p.
1977, August
SPONSOR: U.S. Environmental Protection Agency,
Hotor Vehicle Emission Laboratory: Energy
Research and Development Administration,
Division of Transportation Energy Conservation
RETWORDS: ALTEPHATE FUELS: HETHANOL: COMPARTIVE
EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL
FCONOMY: GASOLIME: 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 Ray 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
KEYNORDS: FUEL ECONOMY: GASOLINE: HYDROGEN;
HETHANOL: FUEL INJECTION SYSTEMS; STIRLING
ENGINES: GAS EMGINES; AUTOHOBILES;
COMPARATIVE EVALUATIONS: DPIVING CYCLE;
HIGHMAT TRANSPORTATION: ENERGY STORAGE;
VEHICLE TRIPS: TESTING; FUEL CONSUMPTION;
VEHICLE MILES TRAVELED; PROTOGRAPHS;
AUTOHOBILE OCCUPANCY
AVAILABILITY: NTIS

Pouliot, H.W.: Robinson, C.W.: Delameter, W.R. Sandia Laboratories ADDRFSS: 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 KETHORDS: SPARK IGHITION ENGINES: VARIABLE

DISPLACEMENT ENGINES: EXHAUST RECIRCULATION SYSTEMS: AUTOMOTIVE EMISSIONS: FUEL ECONOMI, PRANTEMENT ITESTING: DPINING CYCLE: OPBAN "PANSPORTATION: MECHANICS: GRAPHS (CHARTS): CIAGRANS: NIDPOCARBONS: NITROGEN OXIDES AVAILABILITY: GPO, Stock No. 061-000-00108-5

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

Pepor* No. HCP/H4250-01 (Previously issued as COO-4250-1), 327 p.
1978, January
SPOTSOFT: U.S. Dept. of Energy, Division of Transportation Energy Conservation
ETYMODE: ELECTRIC VPHICLES: HIBBID ELECTRY-DOWNER VEHICLES: COMPERCIALIZATION: FWFFGT DENAND; COSTS; PEPFORMANCE: TABLES (MATA): ELECTRIC VEHICLE PANGE; TRANSPORTATION: PETROLEUM; EMERGY COMSTPTATION: TECHNOLOGY ASSESSMENT; INSTITUTIONAL FACTORS; SAFETY
AVAILABILITY: ETIS

Reilly, J.J.: Wiswall, R.M.: Waide, C.M.
Brookhaven Mational Imboratory, Dept. of Applied
Science
ADDRESS: Tpton, NY 11973
FITLE: Motor Vehicle Storage of Hydrogen Using
Metal Hydrides. Final Report

*eport Fo. TEC-75/001, 88 p.
1974, October
570850*: Energy Research and Development
Addinistration, Division of Transportation
Thergy Conservation
RETWORDS: HTDROGEE; HTDROGEN STORAGE; HTDRIDES;
AUTOPOBLIES; HAGRESION HTDRIDES; AUMINUM
HTDRIDES; DESIGN; STABILITY; COMPARATIVE
EVALUATIONS; TABLES (DATA); DIAGRAMS;
ALTERNATE FORLS

Poelke, R.J.: McLallin, K.L.

Parional Aeronautics and Space Administration,
Levis Research Center

ADDRESS: Cleveland, OR as135

"III: Cold-Air Performance of the
Compresor-Drive Turbine of the Department of
Fnergy Baseline Automobile Gas-Turbine Engine

Report No. DOE/NASA/1011-78/25, WASA TH-78894, F-9480, 22 p.
1978, July
SPONSOR: U.S. Empt. of Energy, Division of Transportation Energy, Division of Transportation Energy Conservation RETRODS: GAS TURBINE ENGINES: PERFORMANCE; US DOE: AUTOHOBILES: AERODYMANICS: VELOCITY: TPSTUMG: EMGINES: EPTICIENCY: ZOUTPHENT: HISSURE HEASUNEHENT; GRAPHS (CHATTS): DIAGRAMS: TEMPERATURE: TORQUE AVAILABILITY: HTIS

Sohv, C.A.: Machaen, J.P.; Duffy, T.E. International Harvester Co., Solar Division ADDRTS: 2200 Pacific Highway, San Diego, CA 92138 TITLE: Automotive Storage of Hydrogen Using Modified Hagnesius Hydrides Peport No. TEC-75/002, 55 p.
1975, July
SPOISOR: U.S. Environmental Protection Agency,
Office of Air and Waste Hanagement, Office of
Mobile Source Air Pollution Control,
Alternative Automotive Power Systems
Division; Energy Remearch and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HYDROGEM; AUTOMOBILFS; HAGGESIUM
HYDPIDES: EMERGY STORAGE; ALTERNATE FOELS:
HAGRESION ALLOYS: RESEARCH; HYDPIDES;
REFUELING; TABLES (DATA); GRAPHS (CHARTS);
HYDROGEM STORAGE
AVAILABILITY; BTIS

Rosenberg, M.; 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 Blas Toward
Vehicles of Particular Characteristics

Report NO. HCP/H1043-01, CONS/1043-1, 428 p.
1978, February
SPONSOF: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: HIBBID ELECTRIC-POWERED VEHICLES;
INSTITUTIONAL PRACTORS: LEGISLATION: TAKES:
REGGLATIONS: ELECTRIC VEHICLES: PAPFIC
CONTROL; GOVERNHENT POLICIPS: AUTOMOTIVE
INDUSTRY: ELECTRIC POWER; BATTEPT CHARGING;
VEHICLE PARKING; TABLES (DATA); PEGIONAL
ANALYSIS; PRICES: BATES (COSTS); PETROLEUM;
URBAN AREAS
AVAILABELLITY: HTIS

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, WASA CR-135380, RHR-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
KETWORDS: ELECTRIC VEHICLES; DESIGN; POWER TRAIN SYSTEMS; PERFORMANCE; ELECTRIC VEHICLE RANGE; DRIVING CYCLE; EPPICIENCT; AUTONOTIVE ENGINEERING; TESTING; SIMULATION
AVAILABILITY: NTIS

Rowlett, B.H.: Hurry, R. Airesearch Hanufacturing Co. ADDRESS: Torrance, CA TITLE: Near-Tere Electric Vehicle Program: Phase 1, Final Report

Report No. SAM/1213-1, 259 p.
1977, August
SPONSOF: Energy Research and Development
Adainistration, Division of Transportation
Energy Conservation
KENUORDS: ELECTRIC VENICLES; DESIGN; PERFORMANCE;
SAFETT; SATTERIES; TABLES (DATA); GRAPHS
(CHARTS); DIAGRAHS; ENERGY STORAGE;
ECONOMICS; COSTS; DEVELOPMENT; HODELS;
SIMULATION; LIFE-CYCLE COST; TRANSPORTATION
AVAILABILITT; NTIS

Ruscitto, D.: McCornick, J.: Gray, S.
Hechanical Technology Inc.
ADDRESS: Lathas, FT 12110
TITLE: Hydrodynamic Air Lubricated Compliant
Surface Searing for an Automotive Gas Turbine
Figine. I - Journal Bearing Performance

Report Wo. COMS/9427-1, MASA-CR-135368, 148 p.
1970, April
SPOWSOR: U.S. Lept. of Energy, Division of
Transportation Energy Conservation; Wational
Acronatics and Space Administration
KETWOPNS: TESTIMG: AUTOROTIVE REGIFES; GAS
TOPSIME REGIFES: STATEMES; DESIGN;
PERFORANCE; TEMPERATUPE
AVAILABILITY: HTIS

Schmidt, F.W.: Wagner, C.B. Chrysler Corp. ADDRESS: Detroit, MI FIFTLE Saceline Gas Turbine Development Program. Fighteenth Quarterly Programs Report

Report No. COO-2789-18, 261 p.
1977, April 30
SPONSOR: Energy Research and Development
Alsinistration, Division of Transportation
Energy Conservation
KEYNOPDS: GAS TURNING EMOINES; DESIGN;
EPPICIENCY; FUEL ECONOMY; GRAPHS (CHARTS);
TABLES (DATA); DIAGRARS; VEHICLES;
VERFORFANCE; DEVELOPMENT
AVAILABILITY; NTIS

Schwartz, N.J.
Fational Aeronautics and Space Administration,
Lewis Research Center
ADDRYSS: Cleveland, OH 48135
TITLE: New Batteries and Their Impact on Electric
Vehicles

Report Fo. ERDA/HASA 1011/77/3, HASA TH I-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
Afainistration, Division of Transportation
Energy Conservation
ENTORDS: ELECTRIC VEHICLES: ELECTRIC VEHICLE
BANGE: COSTS: BATTERIES: PERFORMANCE;
COMPARATIVE EVALUATIONS

Schwarz, R.
ASI Engineering Inc.
ADDRESS: 405 South Pairview Avenue, Goleta, CA
93017
TITLE: Fear-Term Electric Vehicle Program.
Phase 1, Final Paport

Report Fo. SAB/1295-1, 304 p.
1977, August
370W30R: Energy Research and Development
Administration, Division of Transportation
PRETGY COMSETVATION
RETWORDS: ELECTRIC VEHICLES; DESIGN; BATTERIES;
PRETORNANCE: TABLES (DATA); GRAPES (CHARTS);
DIAGRAMS: LIFE-CYCLE COST; COSTS; EFFICIENCY;
REPGY STORAGE; URBAN TRANSPORTATION; EMERGY
COMSUMPTION; EMERGY COMSETVATION; WEIGHT
AVAILABILITY: MIIS

Shonka, D.B. Oak Bidge Maticnal Laboratory, Energy Division, Regional and Orban Studies Section ADDRESS: Oak Ridge, TF 37830 FITLE: Characteristics of Automotive Fleets in the United States: 1966-1977

Report Mo. ORBL/TH-6829 Special, #9 p.
1978, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
EXYMORDS: AUTOMOTIVE PLEETS: AUTOMORLES:
INVENTORIES: PUBCHASING: FURL ECOMORY:
OWNERSHIP: SURVEYS: TABLES (DATA): SIER;
VERICLE REGISTRATIONS: VERICLE HILES
TRAVELED: CHARACTERISTICS
AVAILABILITY: PTIS

Shonka, D.B.; Loebl, A.S.; Patterson, P.D.;
O'Connor, T.P.; Ogle, H.C.; Rose, A.B.;
Greene, D.L.
Oak Ridge Mational Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TW 37380
TITLE: Transportation Energy Conservation Data
Book: Edition 2

Report Mo. ORML-5320, a59 p.
1977, October
SPOMSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMORDS: EMERGY COMSERVATION: HIGHWAY
TRANSPORTATION: AIR TRANSPORTATION: RAIL
TRANSPORTATION: MARINE TRANSPORTATION:
PIPELIME TRANSPORTATION: STATISTICS: TABLES
(DATA): GRAPHS (CHARTS): VERICLES:
REGULATIONS: EMERGY COMSUMPTION: DEBAND
(ECOMOMICS): FUEL ECOMONY: FUEL COMSUMPTION:
AUTOMOBILES: EMERGY INTENSITY: TRAVEL: BEERGY
DEMAND: PASSENGER TRANSPORTATION: AUTOMOTIVE
FLEETS: PETROLUMN: SALES: PUBLIC
TRANSPORTATION: URBAN TRANSPORTATION: VEHICLE
REGISTATIONS: VERICLE HILES TRAVELED;
FORECASTING: GOVERNMENT POLICIES: EMERGY
SUPPLIES: WATER TRANSPORTATION
AVAILABILITY: HTIS

Soltis, R.F. Pational Aeronautics and Space Administration, Lewis Research Center ADDRESS: Cleveland, OR 44135 FITLE: A Cycle Timer for Testing Electric Vehicles

Report No. DOE/NA SA/1011-78/27, NASA TH-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 KEYNORDS: ELECTRIC VEHICLES: TESTING; DRIVING CYCLE: VELOCITY; EQUIPHENT AVAILABILITY: NTIS

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

Report No. MASA TH-73769, COM/1011-14, 68 p. 1978, June
SPOUSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation REMODS: ELECTRIC VEHICLES; HERRID BLECTRIC-POWERED VEHICLES; TESTING;

ACCELEPATION; ELECTRIC VENCILE RANGE; PASSENGER TRANSPORTATION; FUEL ECONOMY; SPARK IGNITION ENGINES; PERFORMANCE; DIAGRAMS; GRAPHS (CHARTS); EWERGY CONSUMPTION AVAILABILITY; HTIS

Soltis, R.F.; Dustin, H.O.: Sargent, H.B. Hational Aeronautics and Space Administration, Levis Research Center ADDRESS: Cleveland, OH 40135 TITLE: Pesults of Baseline Tests of the Lucas

Report No. WASA TH I-73609, 27 p.
1977, January
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VENICLES; TESTING; DRIVE TRAIN
SISTEMS; BATTERIES; PASSENGER TRANSPORTATION;
DRIVING CYCLE; PERFORMANCE; BILEAGE; EMERGY
COMSUMPTION; STANDARDS; PHOTOGRAPHS; GRAPHS
(CHARTS); ELECTRIC VENICLE RANGE
AVAILABILITI: HTIS

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

Report No. HCP/W3684-01/1, 218 p.; Report No. HCP/W3684-01/2 for Executive Summary, 55 p. 1978, Hay SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation KRIWORDS: ALTERNATE FORLS: RAW MATERIALS; AUTOHOTIVE FUELS; DIESEL FUELS; HARRET; TRANSPORTATION; EMERGY FLOW; TABLES (DATA); FORECASTING; EMERGY DEHAND; SYNTHETIC PETROLEOH; REFINING; PROPERTIES; OIL SHALE; ALCOHOL FUELS; AUTOHOBILES; HETHANOL; COAL; PRODUCTION; HIDPCARROWS; INTERNAL COMBUSTION ENGINES; OCTANE; GASOLINE

Tacina, R.

Pational Aeronautics and Space Administration,
Levis Research Center

ADDRESS: Cleveland, OR 44135

TITLE: Experisental Evaluation of
Presixing-Presaporizing Fuel Injection
Concepts for a Gas Turbine Catalytic Combustor

Report Wo. COMS/1011-18, MASA TH-73755, paper presented at the Winter Annual Reeting, American Society of Hechanical Engineers, Atlanta, Georgia, Movember 27 - December 2, 1977, v.p.
1977, August Sponson: Energy Research and Development Administration, Division of Transportation Energy Conservation STSTEMS; ATOMICATION; EVAPORATION: DIAGRAMS; GRAPES (CHARTS); GRAPES TURBINES; CATALISTS; COMBUSTORS; AUTOMOBILES AVAILABILITY: MTIS

Tew, R.; Jefferies, R.; Riao, D. Bational Aeronautics and Space Administration, Levis Research Center ADDRESS: Cleveland, OH 88135 TITLE: A Stirling Engine Computer Hodel for Performance

Report No. DOZ/NASA/1011-78/24, NASA-TH-78884, 69 P.
1976, July
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
ETWORDS: STIRLING ENGINES; HODELS; PERFORMANCE; THERRODYNAMIC PROPERTIES; SINULATION; COMPUTER PROGRAMS
AVAILABILITT: GPO, Stock No. 757-139/1201

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

Report Bo. COO-2690-1, TE4193-76-75, 250 p.
1976
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REYNORDS: INTERNAL COMBUSTION ENGINES; DIESEL
ENGINES; RANKING CYCLE ENGINES; PERFORMANCE;
FUEL ECONOMY; TRUCKS; DESIGN; GRAPRS
(CHARTS); DIAGRAMS; AUTOMOTIVE EMISSIONS;
FEASIBILITY; TESTING; WASTE HEAT; RECOVERY;
UTILIZATION; DEMONSTRATION
AVAILABILITY; NIS

Towle, W.L.; Graae, J.E.A.; Chilenskas, A.A.; Ivins, R.O. Argonne Mational Laboratory ADDRESS: 9700 South Cass Ave., Argonne, IL 60%39 FITLE: Cost Estimate for the Commercial Handfacture 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
KETWORDS: COSTS; LITHIUM/HETAL SULFIDE BATTERIES;
LOAD HANAGEMENT; UTILITIES; HANDFACTURING;
LITHIUM-ALUHINUM/HETAL SULFIDE BATTERIES;
PRICES; ECONOMICS; DIAGRAMS
AVAILABILITT: 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-00n3, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYMORDS: AUTOHOBILE DRIVERS: EDUCATION;
AUTOHORIVE YOLES; PUEL ECONONY; AUTOHOBILES;
TRUCKS: TESTING; HEASURING INSTRUMENTS;
DRIVING CYCLE; PZEDBACK; TABLES (DATA);
GRAPPS (CHARTS); HONTHLY VARIATIONS
AVAILABILITY; NTIS

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

VEHICLES; RESEARCH; EMERGY COMSUMPTION

Peport No. SAM/1335-1, 164 p.
1977, September
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYNORDS: ELECTRIC VEBICLES: HYBRID ELECTRIC-POWERED VERICLES; PERFORMANCE; STANDARDS; RESTARCH; QUESTIONNAIRES; SURVEYS; TABLES (DATA); GRAPHS (CHARTS)

Union College, Graduate Studies and Continuing Education ADDRESS: Schemectady, NY 12308 "ITLE: Pourth National Conference on the "Effects of Emergy 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
KEYMOPDS: TRANSPORTATION; COMPERENCES; EMERGY
SHORTAGES; PLANNING; EFFICIENCY; INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
INTERCITY TRANSPORTATION; RAIL
TRANSPORTATION; GOVERNMENT POLICIES; ELECTRIC

Wagner, J.R.; Waughton, J.; Brooks, W.P.; Davis, R.
Brookhaven Wational Laboratory, Mational Center for Analysis of Energy Systems
ADDRESS: Upton, MY
TITLE: Light Duty Highway Fleets: The Potential for Alternative Technologies in Fleets
Operated by Corporations and State and Local Governments

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TRANSPOPTATION

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RETWORDS: ECONORIC ANALYSIS; AUTONOTIVE

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FITLE: Electric Propulsion for Road Vehicles.
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Deutsche Automobilgemellschaft
Forschungslaboratorium
ADDRESS: Germany
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DIRSEL FUELS; GRAPHS (CHARTS); PETROLEUM
REFINING; DISTILLATES; SUPPLY (ECONOMICS);
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Balkus, K.
Plorida State University
ADDRESS: Tallahassee, PL 32306
TITLE: Transportation Issues in Consuser
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AVAILABILITY: National Acadeay of Sciences, Transportation Research Board, 2101 Constitution Ave. HW, Washington, DC 20418 \$2.00 for Highway Research Record No. 439 <50> COPT.

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TITLE: Field Evaluation of Miles-Per-Gallon Heters

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FUELS; FOUL CONSUMPTION; ELECTRIC POWER
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FUELS; PETROLEUR REFIRING; COMPARATIVE
REVALUATIONS: GASOLINE; FUEL ECONOMY;
PREPORTANCE: AUTOMOTIVE ERISSIONS
AVAILABILITY: Society of Automotive Engineers,
400 Commonwealth Drive, Warrendale, PA 15096

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Passile, P.S. (ed.)
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Passachusetts Institute of Technology, Workshop
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ADDRESS: Cambridge, RA 02139</pre>

TITLE: Energy Supply-Demand Integrations to the Year 2000: Global and Mational Studies

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CONSUMETION; PRICES; GROWTH; TRANSPORTATION;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
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TABLES (OATA)

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DIAGRAMS; GRAPHS (CHARTS); AUTOROBILES;
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ADDRESS: Bartlesville, OR 74003
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ECONOMI; VELOCITY
AVAILABILITY; NTIS

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ADDRESS: Bartlesville, OK
FITLE: Perforance of Gasoline and Diesel Fuels
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STRATIFIED CHARGE ENGINES; COMPARATIVE
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(DATA); ADTOGIVE EMISSIONS
AVAILABILITY; MTIS

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ADDRESS: Bartlesville, OK
TITLE: Valve Timing--Its Effect on Baissions and
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EQUIPMENT: EFFICIENCY: NITROGEN OXIDES;
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Transportation Administration
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GROWIN; TRANSPORTATION: RESIDENTIAL SECTOR:
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CONSERVATION: FUEL CONSUMPTION; GOVERNMENT
POLICIES; AUTOMOTIVE INDUSTRY
AVAILABILITY: MTIS

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PERFORMANCE: COSTS: ENVIRONMENTAL INPACT;
TARLES (DATA); PROPULSION; BATTERIES;
AUTOHOTIVE ENGINES; GRAPES (CHARTS);
AUTOHOBILES; COMPRECIALIZATION
AVAILABILITY: HTIS

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Highway Administration, Office of Highway
Planning, Program Hanagement Division
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COMMECTICUT; RECREATIONAL TRAYEL; STOCHASTIC
PROCESSES: SIMULATION; HODELS; LIPE STYLE;
DISTRIBUTION; LAND USE; FORECASTING; TABLES

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Hassachusetts Institute of Technology, Dept. of
Civil Engineering, Transportation Systems
Division
AbDRESS: Cambridge, MA 02139
TITLE: Use of Forecasting Hodels in
Transportation Planning

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Walbridge, E.W.
Argonne Hational Laboratory, Energy and
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ADDPESS: 9700 South Cass Avenue, Argonne, IL TITLE: Transportation Energy Scenario Analysis
Technical Report Mo. 1: Examination of Four
Existing Scenarios

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RETWORDS: ALTERNAT? FUELS; ETHANOL; METHANOL;
ANTOHOTIVE EMGINES; PRODUCTION; ECONOMIC
ANALYSIS; COMPARATIVE FVALUATIONS; TOXICUTT;
ALCOHOT, FUELS; MILLIZATION; DIESEL ENGINES;
T?C="OLOGY ASSESSMENT; INTERNAL CONSUSTION EV6 & E5; DESIGN; MARKET; GRAPHS (CHARTS)
AVAILABILITY: HTIS

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Bigelow and Associates
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RETHORDS: SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL
IMPACT: TRANSPORTATION SYSTEMS; PLANNING;
GOVERNMENT POLICIES; LAND USE; CITIZENS GROUPS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20818
\$6.00 for Transportation Research Record No.
565

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Billing, J.R.; Grouni, H.M.; Vuchic, V.R.
Ontario Ministry of Transportation and
Communications, Research and Development
Division; Pennsylvania, University of, Dept.
of Engineering
ADDRESS: OMTC, Ontario, Canada; UP, Philadelphia,
pa PA
TITLE: Design of Elevated Guideway Structures for
Light Rail Transit (Abridgment) (Discussion)

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SPONSOF: National Academy of Sciences,
Transportation Research Board
RETWOFDS: RAPID TRANSIT SYSTEMS; DESIGN;
RIGHT-OF-WAY; PERFORMANCE; ELEVANIED 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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Láwrence Livermore Laboratory
ADDRESS: California Univ., Livermore, CA
TITLE: Transportation-Related Data Bases
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Digest of Detailed Data Base Descriptions.
Part II: Detailed Data Base Descriptions

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Transportation Systems Center, Information DIVISION
ETHORDS: TRAMSPORTATION; DATA BASES; ABSTRACTS;
BIBLIOGRAPHIES; ENERGY MODELS; SURVEYS
AVAILABILITY: NTIS

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REYMORDS: CAMBO TRANSPORTATION; PETPOLEUR
PRODUCTS: PUBL COMSUMPTION; TRUCKS; HOUSEHOLD

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Bjerklie, J.W.; Cairns, E.J.; Tobias, C.W.;
Filzon, D.G.
Hague International; Argonne Hational Laboratory;
California, University of; Rassachusetts
Institute of Technology
ADDRESS: Ht, The Hague, Wetherlands; AWL, 9700
South Cass Avenue, Argonne, IL 60439; CU,
Perkeley, CA 94720; HIT, Casbridge, RA 02139
TITLE: An Evaluation of Alternative Power Sources
for Low-Esission Automobiles Paper Vo. 750929, presented at the Society of Automotive Engineers' Automobile Engineering Meeting, Detroit, Michigan, October 13-17, 1975, 18 p. 1975
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RETWORDS: AUTOMOTIVE EMISSIONS; ENGINES;
ALTERNATE FOELS; GAS TORBINE EMGLNES; RANKINE
CTCLE EMGLNES: STIRLING EMGLNES; ELECTRIC
VENICLES; GRAPHS (CHARTS); COSTS; COMPARATIVE
EVALUATIONS
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15096

Bloaquist, h.P.; Hikel, S.A. Chrysler Corp. ADDRESS: Detroit. HI TITLE: The 1978 Chrysler Torque Converter Lock-Up Clutch

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Sobit, E.J.; Sornkohl, C.; Dunlap, J.R. Bobit Publishing Co., Research Dept. ADDRESS: 2500 Artesia Boulevard, Redondo Beach, CA 90278 ADDRESS: 2500 ALLESS OF Automotive Fleet Operations on Transportation Energy Conservation

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SPONSOR: Energy Research and Development
Administration; Oak Ridge National Laboratory
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RILEAGE; RETAIL TRADE; PORCASTING; OPERATING
COSTS; HAIRSTEARCE; REPAIR; RECORDC
VENICLES; INSURANCE; TAXES; ADTOMOTIVE
ENGINES; STATISTICS; OWNERSHIP; AUTOROBILES;
TOIL ECONOMY; TABLES (DATA); VENICLE
REGISTPATIONS

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T.S. Dept. of Agriculture, Economic Research
Service, National Economic Analysis Division

ADDRESS: Washington, DC 20250 TITLE: Cost of Operating Refrigerated Trucks for Hauling Fresh Fruits and Vegetables

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ADDRESS: LLL, University of California,
Liverance, CA 94550; LBL, Berkeley, CA 94720
TITLE: Application of Energy Storage Power
Systems to Nonhighway Transportation

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Administration
KEYWORDS: TRANSPORTATION; EMERGY STORAGE; EMERGY CONSUMPTION: RAIL TRANSPORTATION; RAPID
TRANSIT SISTEMS; BATTERIES: DEVELOPMENT;
PLYWHEELS; GRAPHS (CHARTS); TABLES (DATA);
AVIATION; HARIEZ TRANSPORTATION; PIPELINES
AVAILABILITY: HTIS

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

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1977, May
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KBIWORDS: HIGHWAY TRANSPORTATION; TRANSPORTATION RETURDS: HIGHWAI TRANSPORTATION; TRANSPORTATION SISTERS; ELECTRIC VEHICLES; EMERGI STORAGE; DUAL HODE ELECTRIC TRANSPORTATION SISTEM; TABLES (DATA): DESIGN; HAGGETIC FIELDS; GRAPHS (CHARIS): CALIFORNIA; COSTS; ALTERNATE FUELS; COMPARATIVE EVALUATIONS; SAFETY AVAILABILITY: MIS

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Lawrence Berkeley Laboratory
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.
1976, July
SIONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: PERFORMANCE: TESTING: DESIGN: ELECTRIC
VENICLES: DRIVING CYCLE: EMERGY STORAGE;
ELECTRIC HIGHMAY SYSTEMS; COUPLINGS; BATTERIES
AVAILABILITY: NTIS

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SPONSOR: Society of Automotive Engineers
KRIWORDS: DIESEL ENGINES: FUEL CONSUMPTION;
COOLANTS: OILS: TEMPERATURE; GRAPHS (CHARTS); TRETTEG

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

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SPONSOR: T.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
REYMORDS: IMPUT-OUTPUT ANALYSIS: NODELS:
COMPARATIVE STALUATIONS: REGIONAL ANALYSIS:
TRANSPORTATIONS: TRADE; COMMODITIES; ECONOMICS
AVAILABILITY: HTIS

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ADDRESS: 9330 East West Hwy., Bethesda, MD 200
TITLE: Energy Use in the Harine Transportation
Industry. Volume IV: Task III-Efficiency
Improvements, Task IV-Industry Future

Final Report, Volume IV, v.p.

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SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Ron-Highway Transport Systems

FETWORDS: EMERGY CONSTMPTIC: FAVINE TRANSPORTATION: OREAT LARGE; CARGO TRANSPORTATION: GREAT LARGE; WATER TRANSPORTATION: WATERWAY TRANSPORTATION: COASTAL REGIONS; RECREATION VEHICLES; FISH: I"DUSTPY; FDEL CONSUMPTION; TABLES (DATA);

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19/8, Pebruary
SPONSOR: U.S. Dept. of Transportation, Mational
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AUTOMOBILES: SURVEYS; ATTITUDES;
TRANSPORTATION

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Division
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ENGINEERING: TESTING: PRODUCTION: SAFETY:
PASSENGER TRANSPORTATION: HOHMAN CONFORT:
OPERATION: TRANSPORTATION DISADVANTAGED:
TABLES (DATA): MANUFACTURERS: PHOTOGRAPHS:
GRAPHS (CHARTS): DIAGRAMS
AVAILABILITY: STIS

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ADDRESS: 4733 Bethesda Avenue, Bethesda, RD 20014
TITLE: Transbus: Technical Data

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SPECIFICATIONS: TRANSBUS: CHARACTERISTICS
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ADDRESS: Washington, DC
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CONSUMPTION: GROSS NATIONAL PRODUCT;
INDUSTRIAL SECTOR; PRODUCTION;
TRANSPORTATION; EMERGY SOUPCES; COMPARATIVE
EVALUATIONS; RESIDENTIAL SECTOP; EFFICIENCY;
ELASTICITY (ECONORICS); PRICES; EMERGI
DEMAND; AUTOROBILES; LIPE STILE; UNITED
KINGDON; FRANCE; GERMAN FEDERAL REPUBLIC;
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AVAILABILITY: National Academy of Sciences,
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ELECTRIC-POWERED VEHICLES; PERFORMANCE; FUEL
CONSUMPTION: LEAD-ACID BATTERIES; ENERGY
STORAGE; URBAN TRANSPORTATION; PASSENGER
TRANSPOPTATION; TABLES (DATA); FUEL ECONOMY;
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AVAILABILITY: U.S. Dept. of Energy, Voluntary
Truck and Bus Puel Economy Program,
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02142; ORBL, Oak Ridge, TN 37830; DOT,
Washington, DC 20590
FITLE: Urban Data Book. Volume I. Urban Data:
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SYSTEMS: BUSSES (VEHICLES): HODELS: GRAPHS
(CHAPTS)
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
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SPONSOR: Zhergy Research and Development
Administration, Assistant Administrator for
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AVAILABILITY: Center for Energy and Mineral
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TRANSPORTATION
AVAILABILITY; BTIS

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ADDRESS: Washington, DC 2030†
FITTE: Electric vehicle Research, Development,
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Pederal Energy Afsinistration, Office of Energy
Information and Analysis, Price Analysis
Division
ADDRESS: Washington, DC 20461
FIFLE: Honthly Petroleum Product Price Report

Honthly report, approximately 20 p.
KEYWORDS: PETECLEUM PRODUCTS: PRICES; STATISTICS;
MISTORY: SURVEYS
AVAILABILITY: HYIS

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Tennessee, University of, Transportation Center
ADDRESS: Rosville, TH
TITLE: Institutional Issues in Urban Freight
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Policy and Program Evaluation, Office of
Conservation Policy: Federal Energy
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REMORDS: MERCY CONSERVATION; CARPOOLING;
VAMPOOLS: PUBLIC TRANSPORTATION; TABLES
(DATA); GRAPHS (CHARTS); TRANSPORTATION;
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ADDRESS: 90 Park lev., New York, NY 10018
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TABLES (DATA); SALES; EMERGY DEHAMD;
RESIDENTIAL SECTOR; LOAD HANDGEMENT; ELECTRIC
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VARS: PERFORMANCE: EPPICIENCY: MAINTENANCE;
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SPEED LINITS; CORPARATIVE EVALUATIONS;
VEHICLE HILES TRAVELED; TABLES (DATA); STATE
AWALYSIS
AVAILABILITY: BYIS

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Judd, D.
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ADDRESS: Joplin, HO
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Prookhaven National Laboratory, National Center
for Analysis of Emergy Systems, Policy
Analysis Division; State University of New
York, Institute for Energy Research
ADDRESS: BHL, Upton, NY 11973; SUNY, Stony
Brook, NY 11790

TITLE: Land Use - Energy Simulation Hodel; A
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SPOUSOR: Pederal Emergy Administration, Office of
Emergy Conservation and Environment
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LAND USE: RESIDENTIAL SECTOR; TRANSPORTATION;
INDUSTRIAL SECTOR; REERGY DEMAND; REGIONAL
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AVAILABILITY: BTIS

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LOCAL SOVEMBRET; GOVERNMENT POLICES; ENERGY
CONSERVATION: TUSCOM (ARIZONA): LONG ISLAND
(NIW TORK): RESIDENTIAL SECTOR: COMMERCIAL
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ELECTRIC DISCHARGES; CAPACITY; DESIGN; EMERGY
LOSSES
AVAILABILITY: NTIS

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ADDESSS: Washington, DC
TITLE: Demand for Gasoline: Application of
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Chang, G.C. (ed.); Stone R.G. (ed.)
U.S. Dept. of Energy; Lawrence Liversore
Laboratory
ADDESSS: DOE, Washington, DC; LLL, University of
California, Berkeley, CA 94720
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HYBRID ELECTRIC-POWERED VEHICLES; DESIGN;
TRECHNOLOGY ASSESSMENT; HATERIALS;
COMMERCIALIZATION: DIAGRAMS: COSSES: GRAPHS COMMERCIALIZATION: DIAGRAMS; COSTS; GRAPHS (CHAPTS); COMPARATIVE EVALUATIONS; TABLES (DATA) AVAILABILITY: HTIS

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CELLS; FLYWHEZES; LEAD-ACID BATTERIES;
REGEMERATIVE BHAKING; EMERGY STORAGE; EMERGY
CONVERSION; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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FITLE: Nethodology for Predicting the Demand for wew Electricity-Using Goods

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SPONSOR: Electric Power Research Institute
REYMORDS: EMERGY CONSUMPTION; FORECASTING;
ELECTRIC POWER DERAND; EQUIPMENT; HODELS;
CONSUMERS; HARKET; HEAT POWPS; AUTOROBILES;
ATTITUDES; IMPORTS; PRICES
AVAILABILITY: Electric Power Research Institute,
3812 Hillview Avenue, Palo Alto, CA 94304

ADDRESS: 1050 Massachusetts Ave., Casbridge, HA 02138 TITLE: Consumer Behavior Toward Fuel Efficient Vehicles: Literature Review

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Highway Traffic Safety Administration
RETHORDS: BEHAVIOR; CONSUMPRIS; AUTOHOBILES;
PUBLIC OPINION; ATTITUDES; SURVEYS;
PURCHASING; MARKET; COSTS; UTILIZATION;
PRICES; FUEL ECONOMY; TRUCKS; BUSES (VEHICLES)

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TITLE: Price Elasticity Estimates for Transport
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SPONSOR: Federal Energy Administration
RETFORDS: ELASTICITY (ECOMONICS); FOEL
CONSUMPTION; PRICES; GASOLIME; DIESEL FUELS;
JET ENGIME FUELS; TRAMSPORTATIOM; PASSENGER
TRAMSPORTATIOM; RATES (COSTS): CARGO
TRAMSPORTATIOM; ECOMONETRIC MODELS; URBAN
AREAS; AUTOMOBILES; BIBLIOGRAPHIES

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Systematics Inc.
ADDRESS: CRIL, 1050 Hassachusetts Avenue,
Cambridge, MA 02138; CSI, Cambridge, MA
TITLE: Potential fuel Conservation Measures by
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TABLES (DATA); REGULATIONS; FUEL CONSUMPTI;
DEMAND (ECONOMICS)
AVAILABILITY: HTIS

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Group
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TITLE: Hulti-Objective Function Analysis of ERDA
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Argonne National Laboratory ADDRESS: Argonne, IL
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LITHIUM/METAL SULFIDE BATTERIES; ELECTRIC
VERICLES: RESEARCH; DESCH: TESSING;
PERFORRANCE; DIAGRAS
LVALLBELLTY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Chilenskas, A.A.; Bernstein, G.J.; Ivins, R.O.
Argonne Mational Laboratory, Chemical Engineering
Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439

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LOAD MANAGEMENT: ELECTRIC UTILITIES: DEMAND
(ECONOMICS); FOR ECASTING;
LITHIUM-ALUMINUM/RETAL SOLFIDE BATTERIES
AVAILABILITY: NTIS

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ADDRESS: Washington, DC
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Washington, DC 20418 \$6.00 for TRB Special
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Clanbro Corp.
TITLE: Contractors' View on Optisizing Materials
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AVAILABILITY: Mational Academy of Sciences,
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Research Board, 2101 Countitation Ave. NV,
Tashington, DC 20018 \$6.00 for TRE Special
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Alfa Romeo Research Dept.
ADDRESS: Italy
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ENISSIONS; TABLES (DATA); GRAPHS (CHARTS);
EFFICIENCY; PERFORMANCE
AVAILABILITY: Society of Automotive Engineers
INC., 400 Commonwealth Drive, Warrendele, PA
15096

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TRALES (DATA): FINANCIAL DATA: STATISTICS:
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Washington, University of, Urban Transportation
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ADDRESS: Senttle, WA 98105
TITLE: Directing the Evolution of Urban Land Use
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GROWTH; FORECASTING; MASHINGTON; EMPLOYMENT;
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AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
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Dept. of Transportation, Transportation
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CONSUMPTION: HARRET: REPRO! CONSERVATION:
PORECASTING: DEBAND (ECONOMICS): SPEED

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 RRISSIONS; FUEL ECONOMY; TAXES; BLECTRIC
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 RVELLABILITY: \$2,80

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Mational Academy of Sciences, Mational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. MW, Washington,
DC 20e18
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COMSERVATION; ASPHALTS; SULPUR; CEMENTS;
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GRAPPS (CHARTS); COSTS
AVAILABILITY: 56.00

Clark, H. (ed.)

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20418

**TITLE: Transportation System Hanagement

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GOVERNHENT POLICIES; CARGO TRANSPORTATION;
PLANNING; US DOT; REGULATIONS; URBAN AREAS;
AUTOROBLIES; PASSENGER TRANSPORTATION; PUBLIC
OPINION
AVAILABILITY: \$6.80

Clark, F. (ed.)
Rational Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20a18
TITLE: Dual-Hode Transportation

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TRANSPORTATION; BUSES (VEHICLES); TRANSIT
STATIONS: TRAFFIC CONTROL: HAINTENANCE;
CAPACITI; SAVBIT; AUTOMATED GUIDEWAY TRANSI:
AVAILABILITY: \$6.40

Clark, H. (ed.)
National Academy of Sciences, Rational Research
Council, Transportation Research Board
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DC 20418
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TRANSPORTATION; HASS TRANSPORTATION; US DOT;
FUNDING: PLANNING; CONFERENCES; CONSTRUCTION;
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VEHICLES; RESEARCH: ELECTRODES; ELECTROLYTES;
PERFORMANCE; BATTERY SEPRATORS
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Cockle, G.R. (ed).; Houser, F.R. (ed.); Roch,
E.R. (ed.)
Association of American Railroads, Hechanical
Division
ADDRESS: Washington, DC
TITLE: Car and Locomotive Cyclopedia of American
Practices

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REYMORDS: RAILBOAD CARS: RAIL TRANSPORTATION;
LOCOMOTIVES; DESIGN: CARGO TRANSPORTATION;
PASSENGER TRANSPORTATION; EQUIPMENT; DIESEL
BNGIMES: SAFETY: HAIMTEMANCE; PHOTOGRAPHS;
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AVAILABILITY: Simmon-Boardman Publishing Corp.,
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 PORECASTING; COMPETITION; AIR TRANSPORTATION;
 AUTOMOSILES; BUSES (WERICLES); BLASTICITY
 (BCOMONICS); DERAND (RCOMONICS);
 TRANSPORTATION RODE CHOICE; TABLES (DATA);
 GRAPHS (CHARTS)

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Cohen, S.B.
Wyle Laboratories
ADDRESS: P.O. Box 1008, Huntsville, AL 35807
FITEE: Regulatory Effectiveness Hethodology.
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Colello, R.G.
U.S. Dept. of Transportation, Transportation
 Systems Center
ADDRESS; Kendall Square, Casbridge, HA 02142
TITLE: Automobile Drivelines

Report No. DOT-TSC-OST-77-34, 56 p.
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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
KEYMORDS: AUTOHOBILS TRANSHISSIONS; FUEL BCOMONY;
AUTOHOBILS: ACCELERATION; AUTOHOTIVE
EMISSIONS; COMPUTENIZED SIMULATION;
PERFORMANCE; FUEL COMSUMPTION; GRAPHS
(CHARTS); DIAGRAMS
AVAILABILITY: MISS

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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 Mational Transportation Policy

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FETWOODS: TRANSPORTATION; GOVERNMENT POLICIES;
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URBAN TRANSPORTATION; COAL; PETROLEUR;
SAPETY; EMVIROBRESTAL IMPACT

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Collins, H.H.: Carriere, W.H.
General Pessarch Corp.
ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105
TITLE: Energy Impacts of Electric Cars

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REYMONDS: ELECTRIC VERICLES; FORECASTING; EFERGY
CONSUMPTION; PETFOLEN; AUTOMOBILES; RODELS;
ELECTRIC POWER GENERATION; BATTERY CHARGING; GRAPHS (CHARTS); ELECTRIC POWER DEMAND; REGIONAL AWALTSIS: TABLES (DATA)

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ADDRESS: CDC, 607 Valleybrook Drive, Silver
Spring, HD 20904; WRC, 6003 Executive Blvd.,
Rockville, HD
TITLE: Trends in Bus Transit Operations:
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Report No. PB-266748, DOT-TPI-10-77-14, 134 p.
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Secretary for Policy, Plans, and
International Affairs: U.S. Dept. of
Transportation, Urban Hass Transportation
Adainistration
KEYSORDS: BUSES (VEHICLES): TABLES (DATA); GRAPHS
(CHARTS): COSTS; URBAN TRANSPORTATION; FUEL
COMSUMPTION; UTILIZATION; PUBLIC
TRANSPORTATION: FINANCIAL DATA; PASSENCER
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Rahnke, C.J.
Ford Hotor Co.
ADDRESS: Dearborn, HI
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Energy Conservation
KEYNORDS: STIRLING ENGINES; HEAT EXCHANGERS;
COSTS: PERFORMANCE; REGENERATORS; GAS TURBI
ENGINES; DIAGRAMS; GRAPHS (CHARTS); TABLES
(DATA); STRESS AWALTSIS; THERMODYNAMICS
AVAILABILITY: HTIS

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SPONSOR: Energy Research and Development Administration RETWORDS: ELECTRIC VERICLES; LITHIUM-WATER-AIR BATTERIES; LITHIUM; BATTERIES; DEMAND (ECONORICS); FORECASTING

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INCRETIVYS; ECOMONIC IMPACT; PETROLEUM;
MATURAL GAS; AUTOMOBILES; TRANSPORTATION;
PRICES

(157) Clorsi, T.H.: Harvey, H.E.

Maryland, University of, College of Business and

Management; Kent State University

ADDRESS: MU, College Park, HD: KSU, Kent, Ohio

44240

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

weekly publication, v.p. Weekly KRYWORDS: AUTOHOBILES: ENGINES: DIESEL ENGINES; OPDS: AUTOHOBILES; EMGIMES; DLESEL EMGIMES
HAUFIACTURERS; PUEL ECOMONT; PRODUCTION;
VANS: TRUCKS; COMSUMERS; TIRES; ELECTRIC
VERICLES; PUEL DIL; EMISSIONS; AUTOHOTIVE
TANSMISSIONS; ROAD TESTS; SALES; IMPORTS;
EIPORTS; COSTS; TIRES; BUSES (VEMICLES);
PRICES; AUTOHOTIVE INDUSTRY; INTERNATIONAL
AWALYSIS; PHOTOGRAPES; DESIGN; ADVERTISING

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1976, 28 p.
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CONSERVATION; AUTOHOTIVE FLEETS; AIR QUALITI;
DEVELOPMENT; CUPERTINO (CALIFORNIA); COSTS;
AUTOHOTIVE EHISSIONS; TABLES (DATA);
COMPARATIVE STALUATIONS; GRAPPS (CHARTS);
FIEL COMSUMPTION; FUEL ECONOMY; POSTAL SERVICE
AVAILABILITY: Electric vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Crier, F.S.
Washington Center for Netropolitan Studies
ADDRESS: 1717 Hassachusetts Avenue NV,
Washington, DC 20036
TITLE: "The Energy Crisis and Low-Income
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171 p. 1977, June

SPONSOR: COMMUNITY SERVICES Administration
RETWORDS: INCOME; LOW INCOME GROUPS; COSTS;
SOCIO-ECOMONIC FACTORS; EMERGY COMSUMPTION;
RESIDENTIAL SECTOR; BEHAVION; EMERGY
CONSERVATION; TRANSPORTATION; HOUSING; SPACE
HEATING; AUTOROBILES; TABLES (DATA); SURVEYS;
FUEL CONSUMPTION; EMERGY SHORTAGES

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

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Cuttis, 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

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

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September 22-23, 1976, Albuquerque, New
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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Emergy Conservation
RETWORDS: HYBRID ELECTRIC-POWERED VEHICLES:
CONFERENCES; HEAT ENGINES; SYSTEMS ANALYSIS;
STORAGE; AUTOMOTIVE CONTROL SYSTEMS
AVAILABILITY: HTIS

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TRANSPORTATION: AIRPORTS: URBAN TRANSPORTATION
AVAILABILITY: MTIS

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ADDRESS: Lexington, HA
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WATIONAL PRODUCT; INCOME; ECOMONETRIC HODELS;
TO BECASTING; AUTOMOBILES; TABLES (DATA);
ELSTICITY (ECOMONICS); ECOMONIC IMPACT
AVAILABILITY; NTIS

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ADDRESS: LLL, Berkeley, CA
FITTE: Battery-Flynheel Hybrid Electric Power System for Wear Term Application. Volume 1: System Description Volume 2: System Design Informal Report, Report No. UCID-17098, 52 pages
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SPONSOR: Reargy Research and Development
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RETHORDS: TRANSPORTATION; BATTERIES; FLYNHEBLS;
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PETHOLEUM; EMERGY DEHAND; DESIGN; ELECTRIC
VERICLE RANGE
AVAILABILITY; MISS AVAILABILITT: HTIS

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R.C.: Lerner, S.S.
Lavrence Liversore Laboratory
ADDRESS: University of California, P.O. Box 808,
Liversore, CA 98550
FITTE: Determination of the Effectiveness and
Teasibility of Regenerative Braking Systems
on Electric and Other Automobiles. Volume I
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ELECTRIC-POWERED VERICLES; REGEMERATIVE
ENAIMS; RISTORY; RECOVERY; UTILIZATION;
FLYWHEELS; POWER TRAIN STSTERS; DIAGRAMS;
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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
ENERGY CONSERVATION: ENERGY STORAGE;
TECHNOLOGY: ELECTRIC VEHICLES; ENGEMENATIVE
BRAKING; HISTORY; DEVELOPMENT; TESTING;
TRANSPORTATION; COST ANALYSIS; TABLES (DATA);
PATENTS; RISHID ELECTRIC-POWERED VEHICLES;
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AVAILABLITY: HIS

Davis, F.W.; Burkhalter, D.A. TITLE: Vanpooling Institutional Barriers

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Tennessee, University of, Transportation Center
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the Secretary, Office of University Research
KEYEORDS: PASSENGER TRANSPORTATION; URBAN
TRANSPORTATION; DEVELOPMENT; GOVERNMENT
POLICIES: TAXICABS; BUSES (VEHICLES);
AUTOMOTIVE PLEETS; 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

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RETWORDS: AMRODYNAMICS; WIND: FUEL ECONOMY;
AUTOMOBILES; FUEL CONSUMPTION; VELOCITY;
COMPUTER PROGRAMS: TABLES (DATA)
AVAILABILITY: Society of Automotive Engineers
INC., 800 Commonwealth Drive, Warrendale, PA
15096 2.50

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Demetsky, M.J.: Noel, L.A.: Virkler, H.R.
Virginia, University of, Dept. of Civil
Engineering
ADDRESS: Charlottesville, VA 22901
TITLE: Hethodology for the Design of Urban
Transportation Interface Pacilities

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Larson, D.W.

Sandia Laboratories
ADDRESS: Albuquerque, MH 87185

TITLE: Severities of Transportation Accidents
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1978, May
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SPONSOR: U.S. Dept. of Energy, Division of
Thrironmental Technology
REYWORDS: THANSPORTATION; ACCIDENTS; CONTAINERS;
HAZAPOS; FIRE: RAIL TRANSPORTATION; TRUCKS;
AUTOROBILES; WEIGHT: TABLES (DATA)
AVAILABILITY: HTIS

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Deosaran, G.: Sweezy, H.: Van Duzee, R.
Systems Analysis and Research Corp.: U.S. Dept.
of Transportation, Federal Aviation
Administration
ADDRESS: SAPC, 1801 K Street WW, Washington, DC:
TSDDT/FAA, 800 Independence Avenue SW,
Washington, DC 20006
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REGIONAL ANALYSIS; HODELS; REVENUE; HISTORY;
TABLES (DATA); AIRPORTS; STATISTICS; GROWTH;
PUPPETO RICO: PASSENGER EMPLANEMENTS
AVAILABILITY: ETIS

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

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RETPORDS: TIRES: PRICTION; WEAR; ROADS; SURPACES;
PUBL ECONOMY; TESTING; PERFORMANCE; MATERIALS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
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the Secretary, Office of the Assistant
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Technology; U.S. Dept. of Transportation,
Transportation Systems Center
KEYWORDS: MODELS; AUTOMOBILES; TECHNOLOGY
ASSESSERT; RESOURCES; NATERIALS; EMERGY
DEMAND; COMPUTERIZED SIMULATION: IMPUT-OUTPUT
AWALYSIS; LABON ESTIMATES; CAPITAL; DEMAND
(ECOMORICS); TABLES (DATA); MAMPOWER
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SPONSOR: National Science Foundation, RANN Program REMORDS: HYDROGEN; SYDROGEN FUELS; TECHNOLOGY ASSESSMENT; FORECASTING; RYDROGEN FRODUCTION; HYDROGEN STORAGE; DISTRIBUTION; UTILIZATION; SAFETY; COMPARATIVE EVALUATIONS; ECONOMICS; COSTS; VEHICLES; AUTOMOTIVE FUELS; ALTERNATE FUELS; AVIATION; AIR TRANSPORTATION; UTILITIES; AMMONIA; SINTHESIS; STEEL HAKING AVAILABILITI: Praeger Publishers, 200 Park Avenue, New York, NY 10017 \$18.50

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

Report No. N76-33626, MASA-TT-F-17227, 27 p.;
Translated from Boach Technische Berichte,
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SPONSOR: National Aeronautics and Space
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CELLS: RESEARCH: PERFORMANCE
AVAILABILITY: HTIS

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TITLE: Ispact of Selected Energy Conservation Technologies on Baseline Demands

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SPONSOR: U.S. Dept. of Energy
RETWORDS: REGIONAL ANALYSIS; ENERGY CONSUMPTION;
TABLES (DATA): EMERGY COMSERVATION; COST
EFFECTIVENESS: TECHNOLOGY; STANDARDS; MODBLS;
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AVAILABILITY: RTIS

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TITLE: The Transportation Energy Conservation
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SPONSOR: Oak Ridge National Laboratory, Energy Division, Data Management and Analysis Group KEYWORDS: TRANSPORTATION: EMERGY COMSERVATION: DRHAND (TCOMONICS); EMERGY COMSERVATION: EMPIROMMENTAL IMPACT; ECONOMIC IMPACT; TABLES (DATA): HODELS; GOVERNMENT POLICIES: SINULATION; MATERIALS; TRANSPORTATION

Toggett, R.H.; Heyer, R.; Heller, H. International Research and Technology Corp. ADDRESS: 7655 Old Springhouse Rd.; McLean, VA 22101 TITLE: Ten Scenaios of Transportation Energy Conservation Using TECHET

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SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
REYFORDS: FORECASTING; HODELS: TRANSPORTATION;
GASOLINE; RATIONING; EMERGY CONSERVATION;
AUTOHOTIVE EMOINES; BRATTON CYCLE: STIRLING
EMGLHES; INTERNAL COMBUSTION ENGIRES;
ECONOMIC IMPACT: EMERGY IMPERSITY: MARKET;
ZWERGY COMSUMPTION; AUTOHORILES; GROWTH;
VEHICLE MILES TRAVELD; GROSS MATIONAL
PRODUCT; MILEAGE; TABLES (DATA)

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RETWORDS: FUEL ECONORY: AUTOROTIVE EMISSION COMPPOL: AUTOROTIVE EMCIRES: FUEL CONSUMPTION: DESIGN; TESTING; GRAPHS (CRAPES): CATALITIC CONVENTEES AVAILABILITY: Society of Automotive Engineers Inc., 800 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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SPORSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Office of Highway Systems, Reat Engine Systems Branch KETGORS: PTEL COUSSINETION: HIGHERT TRANSPORTATION: AUTOMOBILES: TRUCKS; BUSES (FERICLES); MOTORCICLES; HILBAGE; REGINES;

SALES: PORECASTING: WEIGHT: CLASSIFICATIONS - TABLES (DATA); SIZE: PUEL BOOMONY

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Donovan, Ramester and Rattien Inc.
hDDRESS: 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
SPONSON: Lawrence Liveracre Laboratory, Office of
Environmental Policy
REYWORDS: BIBLIOGRAPHIES; EMERGY SUPPLIES; COAL; RETURNS: BIBLIOGRAPHIES; EMERGY SUPPLIES; COAL
BUCLEAR EMERGY; PETROLEON; HATORAL GAS;
ALTERNATE YULLS; ELECTRIC POWER GEMERATION;
EMERGY CONSUMPTION; EMERGY CONSERVATION;
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ENTIPONMENTAL IMPACT
AVAILABILITY; STIS

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SPONSOR: Lawrence Liveracre Laboratory, Office of Environmental Policy
RETHORDS: LAND USE; ENVIRONMENTAL IMPACT; EMERGY
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AVAILABILITY; NTIS

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Duffy, M.A.; Eiden, G.L.; Hamilton, C.W.; Drago, Y.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. Yolumes I-IV

Report No. FAR-AVP-77-20, v.p 1977, April SPONSOR: U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy, Aviation Forecast Branch REYWORDS: FORECASTING; AVIATION; OPERATING COSTS; RETWORDS: FORECASTING; AVIATION; OPERATING COSTS;
MODELS; DATA BASES; SINULATION; AIRCRAFT;
POEL CONSUMPTION; UTILIZATION; TABLES (DATA);
GRAPMS (CHARTS); GOVERNMENT POLICIES;
REGULATIONS; DEMAND (ECONOMICS); AIR
TRANSPORTATION; OPERATION
AVAILABILITY: RTIS

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

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

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RETWOODS: EMERGY CONSUMPTION; TRANSPORTATION;
PETPOLEUR; PETROLEUM PRODUCTS; LIQUEPIED
PETROLEUM GASES; JET EMGIME FOELS; GASOLINE;
DISTILLATES; FOUL OIL; RESIDUAL OILS; TABLES
(DATA); GRAPRS (CHARTS); REGIONAL AWALYSIS

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

Beport No. CONS/1011-21, WASA TH-73850, paper presented at the 1978 SAE Congress, Detroit, Wichigan, February 27 - March 3, 1978, 2% p. 1978
SPOWSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
FEYWORDS: ELECTRIC VEHICLES; TESTING; HYBRID ELECTRIC-POWERED VEHICLES; REGENEPATIVE BRAKING; ENERGY CONSUMPTION; TABLES (DATA); GRAPES (CHARTS): FUEL CONSUMPTION; PERFORMANCE

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Ebersole, M.; Rubin, D.; Darling, E.; Englander,
 I.; Frenkel, L.; Meyerhoff, N.; Prerau, D.;
 Schaeffer, K.H.; Morrison, J.
7.S. Dept. of Transportation, Transportation
 Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: The Maylight Saving Time Study.
 Executive Summary - Final Report on the
 Operation and Effects of Daylight Saving Time

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SPOYSOR: J.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans and International
Affairs, Office of Transportation Energy
Policy
RETWORDS: EMERGY CONSERVATION: LEGISLATION:

POLICY
RETURNES: EMERGY CONSERVATION; LEGISLATION;
SAFFTY: TRAVEL; DAYLIGHT SAVING TIME;
TRANSPORTATION; ELECTRIC POWER; PUBLIC
OPTION; 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
RETWORDS: ALTERNATE PUELS: AUTONOTIVE ENGINES:
ETHAROL: METHANOL: GASOLINE: PERFORMANCE:
COMPARATIVE EVALUATIONS: PUEL-AIR RATIO: FUEL
ECOMONY: AUTONOTIVE ENISSIONS: 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 Hyer Drive, Arlington,

VA 22209 TITLE: End Use Energy Consumption Data Base: Series 1 Tables

Report NO. PB-281817, DOE/EIA-0018, 206 p.
1978, June
SPONSOR: U.S. Dept. of Energy Energy Information
Administration, Office of Energy Data
REFFORDS: EMERGY COMSUMPTION; ECONOMIC AWALYSIS;
INDUSTRIES; DATA BASES; FUELS; INDUSTRIAL
SECTOR; MANUPACTURING; MINING; PAPER
INDUSTRY; TEXTILE INDUSTRY; AGRICULTURE;
BESIDENTIAL SECTOR; ELECTRIC UTILITIES;
COMMERCIAL SECTOR; HOUSING; STATISTICS;
INCOME; REGIONAL AWALYSIS; TRANSPORTATION;
AUTOROBILES; AIR TRANSPORTATION; WATER
TRANSPORTATION; TABLES (DATA); BUSES
(VENICLES); STATE AWALISIS

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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

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

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SPONSOR: Electric Vehicle Council
REYWORDS: ELECTRIC VEHICLES; RESEARCH; BATTERIES;
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UTILITIES; ENVIRONMENTAL IMPACT; PASSENGER
TRANSPORTATION; AUTOMOBILES; ELECTRIC VEHICLE
PANGE; MARKET; TRUCKS; HAINTENANCE; HTBRID
ELECTRIC-POWERED VEHICLES; UTILIZATION;
ELECTRIC RAIL SYSTEMS; PERFORMANCE;
EFFICIENCY; ECOMOMIC ANALYSIS; PRODUCTION;
BUSES (VEHICLES); DRIVING CYCLP;
INTERNATIONAL ANALYSIS; DIAGRAMS; PHOTOGRAPHS
AVAILABILITY; NTIS

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REYWORDS: BIBLIOGRAPHIES; ENERGY CONSERVATION;
SOLAR EMERGY; ENERGY CONSUMPTION; BUILDINGS;
BEHAVIOR; ENERGY POLICY; ECOMONICS; WASTE
PROCESSING; EMERGY DEMAND; EMERGY SKORTAGES;
EMERGY 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 Mear-Term Electric Vehicle
RED Program Review

1977, May 20
KETWORDS: ELECTRIC VEHICLES; TESTING; HYBRID ELECTRIC-POWERED VEHICLES; US ERDA; VELOCITY; GRAPHS (CHARTS); PROTOGRAPHS; RESEARCH; PERFORMANCE

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Report No. EDP/C-01(77), 118 p.
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REYWORDS: ELECTRIC VEHICLES: BATTERIES; US DOB;
ENVIRONMENTAL IMPACT: RESEARCH; ELECTRIC
FOURT DEHAND; HEALTH; SAPETT; SOCIO-ECONOMIC
PACTORS; AIR QUALITY; NOISE POLLUTION
AVAILABILITY: ETIS

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Paper presented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 565, 12-17 SPONSOR: Wational Academy of Sciences,

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Paper No. 780237, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hell, Detroit, Hichigan, Pebruary 27 - Harch 3, 1978, 12 p.

1978
KEYWORDS: VAWS: HISTORY: UTILIZATION:
PHOTOGRAPHS: DESIGN: HARRET: SALES
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Common wealth Drive, Warrendale, PA
15096 \$2.50

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Erlbaus, W.S.
Bew York State Dept. of Transportation, Planning
and Research Bureau
ADDWESS: Albany, BY
TITLE: Gasoline Demand by Owner Characteristics

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1976
RETWORDS: GASOLIWE: DENAND (ECONOMICS):
OMERSHIP: OWNERS: HEW YORK: AUTOHOBILES:
BATIONING: ALLOCATIONS: PUBL CONSUMPTION:
SIZE: AGE GROUPS: HILBAGE: SET:
SOCIO-ECONOMIC PACTORS
AVAILABILITI: 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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Bribaum, F.S.; Hartgen, D.T.; Cohem, G.S.
Hew York State Dept. of Transportation, Flannis
Division, Flanning Research Unit
ADDRESS: Albany, MY 12232
ITTLE: Automotive Emergy Forecasts: Impact of
Price, Availability, and Efficiency Planning

Preliminary Research Report 133, 99 p. Testaliary Research Report 133, 99 p.
1977, December
RETWORDS: MEN YORK; FUEL COSSUMPTION; VEHICLE
HILES TRAVELED; EMPLOYMENT; FUEL ECOMONY;
GASOLIEE; PRICES; SOCIO-ECOMONIC PACTORS; PORECASTIRG: HODELS; AUTOMOBILES; REGIONAL AWALYSIS; TABLES (DATA); POPULATION (STATISTICS); AUTOMOBILE REGISTRATIONS

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Bribaun, M.S.; Trentacoste, M.P.; Knighton, R.G.;
Slavick, S.R.

Hew 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 Bo. DOT/RSPD/DPB/50-77-6, Volume 2 of 3, 1977, Hay SPONSOR: U.S. Dept. of Transportation, Office of University Research
RETWORDS: INTERCITY TRANSPORTATION;
TRANSPORTATION; HEW YORK; TRAVEL; DATA BASES;
STATISTICS; AIR TRANSPORTATION; AUTOBOBILES;
BUSES (VEHICLES); RAIL TRANSPORTATION;
SERVICES; TABLES (DATA)

<201> BSB 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. AWL-K-77-3621-1, 441 p. 1977 SPONSOR: Argonne Mational Laboratory
RETWORDS: BATTERIES; ELECTRIC VEHICLES; LEAD-ACID
BATTERIES; COSTS; DESIGN; DIAGRAMS; RESBARCH; HARKET AVAILABILITY: MTIS

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Esposito, Y.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, Hichigan, February 27 - Harch 3, 1978, 8 p.

1978
KEYWORDS: ELECTRIC VEHICLES; US DOE; RESEARCR;
HYBRID ELECTRIC-POWERED VEHICLES; BATTERIES;
PERFORMANCE; STANDARDS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Varrendale, PA
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TITLE: Recreational Vehicles: A Subject
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ADDRSS: Washington, DC 20590
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FITTE: A New Direction for the Righway Program Report presented at the 54th Annual Reeting of the Transportation Research Board, published in Transportation Research Record 585, 1-16 1976
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TITLE: Alternative Paels and Intercity Trucking

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ADDRESS: Rolla, HO 65401
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ADDRESS: Warren, MI 88090
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U.S. Dept. of Transportation, Transportation
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ADDRESS: Kendall Square, Cambridge, MA 02142
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ADDRESS: Oak Ridge, TH 37830
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ADDRSS: 6532 E. Halbert Road, Bethesda, HD 20034
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ADDRESS: New York, NY
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ADDRESS: Pedwood City, Ch 94063
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AVAILABILITY: NTIS

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ADDRESS: Santa Barbara, CA 93105
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ADDRPSS: Santa Barbara, CA
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AVGLES; WASHINGTON DC; OWNERSHIP: AGE GROUPS
AVAILABILITY: Society of Automotive Engineers
Tnc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Hamilton, W.; Hagey, G.
General Wesearch Corp; Energy Research and
Development Administration
ADDRESS: GRC, Santa Barbara, CA; ERDA,
Washington, DC
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Washington, DC 20036: USDOC, Washington DC
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ADDRESS; Henlo Park, Edison, N° 08817
TITLE: Durability Testing at One Atmosphere of
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ACCELERORETERS; PIRONETERS; EMERGY
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PRASIBILITY: RETROPITTING: COMPARATIVE
EVALUATIONS: TRUCKS: AUTOMOBILES: MARKET; EVALUATIONS; TRUCKS; AUTOHOBILES; MARKET; PASSENGER TRANSPORTATION; CARGO TRANSPORTATION; BUSES (VEHICLES); HODELS; HOBILITT; EWVIROBHENTAL IMPACT; ECONOMICS; GRAPMS (CHARTS): EQUIPMENT; GOVERNMENT POLICIES; RETROPIT DEVICES

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DRIVERS; MASS TRANSPORTATION; TRAVEL TIME;
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ADDRESS: Germany
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CYCLE ENGINES: DIRSEL ENGINES; STRATIFIED
CHARGE ENGINES; INTERNAL COMBUSTION ENGINES;
GAS TURBINE ENGINES; COMPARATIVE EVALUATIONS;
AUTOMOTIVE EMISSIONS; FUEL ECONOMY; DESIGN;
DIAGRAMS; GRAPES (CHARTS)
AVAILABILITY: Society of Automotive Engineers,
800 Commonwealth Drive, Warrendale, PA 15096

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Constitution Ave. NW, Washington, DC 20418
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ADDRESS: Kendall Square, Cambridge, NA 02142
TITLE: Railroads and the Environment: Estimation
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ADDRESS: Washington, DC
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Transit (Abridgment)

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SPONSOR: Mational Academy of Sciences,
Transportation Pesearch Board
RETWORDS: BUSES (VEHICLES): URBAN TRANSPORTATION;
MODELS: CAPACITY: AUTOMOBILES: VEHICLE TRIPS:
LOS ANGELES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
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P.E.; Chan, V.K.; Rowland, H.I.; Sesinoff,
S.A.; Tahradnik, A.R.
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Transportation Studies
ADDRESS: Berkeley, CA
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COMMERCIALIZATION; INSTITUTIONAL PACTORS;
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AVAILABILITY: Westview Press, Boulder, CO

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RETWORDS: GOVERNMENT POLICIES; RESEARCH;
DETPLOPMENT; INSTITUTIONAL FACTORS; FUNDING;
TECHNOLOGY ASSESSMENT; MARKET

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Seaborn, C.C.
Oak Ridge Mational Laboratory, Information
Division, Information Center Complex, Energy
Information Center
ADDRESS: Oak Ridge, FM 37830
TITLE: Transportation Energy Conservation Data
Book: A Selected, Annotated Bibliography.
Edition 2

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272 p.
1977, October
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THANSPORTATION; PETFOLEUN; DEHAND
(ECOMONICS); DIESEL ENGINES; ECOMONICS;
EFFICIENCY; ELECTRIC VEHICLES; EMERGY
CONSUMPTION; ENVIRONMENTAL INFPACT;
FORECASTING; FOEL CONSUMPTION; FUEL ECOMONY;
FOELS; GASOLIUE: GOVERNMENT POLICIES;
LEGISLATION; NASS TRANSPORTATION; RAIL
TRANSPORTATION; STATISTICS; TROCKS; URBAN
TRANSPORTATION; TRANSPORTATION; ABSTRACTS
AVAILABILITY: NTIS

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Buddleston, R.L.; Kelly, J.J.; Rnight, C.E.
Oak Ridge Y-12 Plant
ADDRESS: P.O. Box Y, Oak Ridge, TN 37830
TITLE: Composite Plywheel Development (January 1
- Harch 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 Hethods Branch
REYWODDS: FLYWHEZLS: RESEARCH; TECHNOLOGY;
DESIGN; GRAPHS (CHARTS): TABLES (DATA);
HATERIALS: STRESS ANALYSIS: HYBRID
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DIAGRAMS; GRAPHS (CHARTS); DESIGN; TESTING;
STRESS AWALYSIS
AVAILABLITT: NTIS

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Pittsburgh, University of, Environmental Systems
Engineering
ADDRESS: Pittsburgh, PA 15260

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LIFE STYLE; POPULATION (STATISTICS); AGE
GROUPS; TABLES (DATA); VEHICLE TRIPS; VEHICLE
HILES TRAVELED; MODELS

<318> Buanon, W.P.; Sharp, D.P.; Ecanotel, L.H. Pittsburgh, University of, Environmental Systems Engineering ADDRESS: Pittsburgh, PA 15260 TITLE: Projections of Automobile Use and Ownership Based on Lifestyle Factors: Scenario Analysis

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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

TITUE: Physical Foundations for Socio-Econosic Modeling for Transportation Planning. Part I: Interaction Between Urban Centers as a Potential Process

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SPOMSOR: U.S. Dept. of Transportation,
Transportation Systems Center, Office of
Systems Research and Analysis
RETWOODS: PHYSICS; STATISTICAL AMALISIS;
HATHEHATICS; POPULATION (STATISTICS); URBAN
AREAS; TRANSPORTATION; BOLTZHAWN STATISTICS;
SYSTEMS AWALYSIS; HODBLS; PLANNING
AVAILABILITT: NYIS

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ADDRESS: 8794 West Center Pike, Upper Darby, PA
19082
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Problems. Part II: The Social Physics for
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SPONSOR: U.S. Dept of Transportation,
Transportation Systems Center, Office of
Systems Research and Analysis
RETWORDS: POPULATION (STATISTICS): SYSTEMS
ANALYSIS: POPULATION DIMARICS: SOCIO-ECONOMIC
PACTORS: URBAN APRAS: HISTORY:
TRANSPORTATION: NODELS
AVAILABILITY: BTIS

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Imai, R.
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
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KEYMORDS: DEVELOPMENT: ELECTRIC VEHICLES; TABLES
(DATA); GRAPHS (CHARTS); ENERGY CONSUMPTION;
LEAD-ACID BATTERIES; AUTOMOBILES; TRUCKS;
COMPARATIVE EVALUATIONS; ENERGY CONSUMPTION;
PERFORMANCE
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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ADDRESS: 1023 Washington Building, Washington, DC
TITLE: World Boad Statistics: 1970-1974.
Edition 1975

Annual publication
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KETWORDS: STATISTICS: ROADS: TABLES (DATA):
PRODUCTION: EXPORTS: VEHICLES: INTERNATIONAL
TRADE: VEHICLE REGISTRATIONS: INPORTS:
TRAPPIC: AUTOHOTIVE 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

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KEYWORDS: TRANSPORTATION; REGULATIONS; CONSUMERS;
PROTECTION; RAIL TRANSPORTATION; CARGO
TRANSPORTATION; PIPELINE TRANSPORTATION;
TARIFFS; WATER TRANSPORTATION; LEGISLATION;
PINANCIAL DATA; PIRANCIAL MARAGERERT
AVAILABILITY: GPO, Stock No. 026-000-01096-9

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Interstate Commerce Commission, Bureau of Accounts ADDRESS: Washington, DC 20423
TITLE: Preight Commodity Statistics: Hotor Carriers of Property, Year Ended December 31, 1974

97 p.
REYWORDS: COMBODITIES; REGIONAL ANALYSIS; TABLES
(DATA); CARGO TRANSPORTATION; REVENUE;
TOWNAGE; TRUCKS; STATISTICS; WEIGHT
AVAILABILITY: GPO \$1.75, Stock Ro.
026-000-01054-3, Catalog Ro. IC 1-R0722:974

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Interstate Connerce Counission, 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.
REYBORDS: TABLES (DATA); WATERWAY TRANSPORTATION;
REVENUE; WATER TRANSPORTATION; CARGO
TRANSPORTATION; PASSEGGER TRANSPORTATION;
PINANCIAL DATA; REGIONAL ANALYSIS; OPERATING
COSTS; HARIN): TRANSPORTATION; CORNODITIES;
TOWNAGE
AVAILABILITY: GPO, Stock No. 026-000-0069-1

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PITLE: 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.

R WYMORDS: BAIL TRANSPORTATION; RAILBOADS;

FINANCIAL DATA; REGIOTAL REALISIS; INCOME;

OPERATING COSTS; CARGO TRANSPORTATION;

MOUIPMENT; TABLES (DATA); BALANCE SHEETS;

REVENUE; REPERSES; STATISTICS; PASSENGER

TRANSPORTATION

AVAILABILITY: GPO, Stock No. 026-000-01067-5; See

EW-6094 for 1974 Statistics

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ADDRESS: Washington, DC
TITLE: Transport Statistics in the United States
for the Year Ended December 31, 1975. Part
3: Preight Forwarders

11 p.
REFFORDS: CARGO TRANSPORTATION; PINANCIAL 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 Tear Ended December 31, 1975. Part %: Private Car Lines

6 p.
RETURNS; STATISTICS; OWERSHIP; RAIL
TRAPSPORTATION; BAILROAD CARS; REFRIGERATION;
FINANCIAL DATA; OPERATION; REVENUE; TABLES
(DATA)
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28 p.
FETFORDS: CARGO TRANSPORTATION: STATISTICS:
REVENUE: REGIONAL ANALYSIS: INTERCITY
TRANSPORTATION: FYRANCIAL DATA: OPERATION;
TABLES (DATA): INCOME: EQUIPMENT:
TRANSPORTATION
AVAILABILITY: GPO

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Heshington, DC 20423
TITLE: Class I Bailroads: Financial and
Operating Statistics for the Twelve Honths
Ended December 31, 1975

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RETWORDS: RAILROADS: FINANCIAL DATA; STATISTICS:
TAXES: REVENUE: OPERATING COSTS: PAIL
TRANSPORTATION: INCOME: PASSENGER
TRANSPORTATION: ROUIPHENT; CARGO

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National Academy of Sciences, National Research
Council, Transportation Research Board,
TRISMET Secretariat

DDBESS: 2101 Constitution Ave., Washington, DC
20590

TITLE: TRISMET: Directory to Transportation
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Report Mo. 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

KEYMORDS: DIRECTORIES; TRANSPORTATION; MAIL
TRANSPORTATION; BIATA BASSE; PUBLIC
TRANSPORTATION; DATA BASSE; PUBLIC
TRANSPORTATION; IMPORMATION SYSTEMS

AVAILABILITY: HTIS

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Irring-Cloud Publishing Co.
ADDRESS: 7300 N. Cicero Ave., Lincolnwood, IL
60646
FITLE: An Analysis of Marketing Trends in the
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1975, December
KEYBORDS: MARKETING; AUTOHOTIVE INDUSTRY;
SERVICES: TABLES (DATA); STATISTICS;
GASOLINE; HAINTENANCE; SALES; EMPLOYMENT;
FINANCIAL DATA; REPAIR; AUTOHOBILES

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TITLE: The Diesels are Coming

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REYWORDS: DIESEL ENGINES; AUTOHOBILES; PURL
ECONOMY; COMPARATIVE EVALUATIONS; DIAGRAMS;
IGNITION SISTEMS: COMPRESSION; FURL INJECTION
SISTEMS; PRECHAMBER ENGINES; PUBLIC OPINION

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Jelavich, H.S.
Faucett (Jack) Associates Inc.
ADDRESS: 5454 Wisconsin Avenue, Suite 1150, Chevy
Chase, HD 20015
TITLE: A Study of the Determinants of Freight
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TITLE: Computer Simulations of Emissions and Fuel
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REYWOODS: AUTOMOTIVE EMISSIONS; FUEL ECONOMY; COMPTERIZED SIMULATION; VPLOCITY; STANDARDS; AUTOMOBILES; DESIGN; GRAPES (CHARTS) AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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SPOMSOR: Electric Vehicle Council; Copper
Development Association Inc.
FYFORDS: HARRET; ELECTRIC VEHICLES; PERPOPHANCE;
QUESTIONNAIRES; TRUCKS; ANTOHOBILES; BOSES
(VEHICLES); INTERNAL COMBUSTION ENGINES;
COMPARATIVE EVALUATIONS; TABLES (DATA)
AVAILABILITY: Electric Vehicle Council, 90 Park
Avenue, New York, NY 10016

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7.S. Dept. of Transportation, Federal Highway
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ADDPESS: 470 7th St. SW, Washington, DC 20590
FITLE: Characteristics of the Regular Adult
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GROUSS: SEX
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ADDRESS: Japan
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Kearney (A.T.) Inc.
ADDRESS: 100 South Wacker Drive, Chicago, IL
60606
TITLE: Urban Goods Movement Demonstration Project
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HOISE POLLUTION; EMERGY CONSUMPTION; COSTS;
TABLES (DATA); TRANSPORTATION; COMPARATIVE
EVALUATIONS; FUEL CONSUMPTION; TRUCKS;
TRAFFIC; LAND USE; PASSENGER TRANSPORTATION;
URBAN TRANSPORTATION; COMMODITIES
AVAILABILITY: HTIS

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ADDRESS: Albany, NY 12232
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REGISTRATIONS; ATTITODES; AUTOHOBILE DRIVERS;
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TABLES (DATA); FUEL ECONOMY; FUEL
CONSUMPTION; PURCHASING; DEMAND (ECONOMICS)

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PROPERTIES: VEHICLES: UTILIZATION:
PERFORMANCE: ENVIRONMENTAL INPACT:
TRANSPORTATION: WATER: TESTING: TABLES
(DATA): TOXICITY: SAFETY
AVAILABILITY: MTIS

Tent, P.: Pishop, B.
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Administration, Office of Highway Planning,
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ADDRESS: Washington, DC 20590
TITLE: Bational Truck Characteristic Report: 1974

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RETWORDS: TPUCKS; TABLES (DATA); WEIGHT; REGIONAL
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ADDRESS: 100 North Hope Ave., Santa Barbara, CA
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RETWORDS: TRANSPORTATION SYSTEMS; URBAN WORDS: TRANSPORTATION SYSTEMS; ORBAN
TRANSPORTATION: ENTERY CONSERVATION; TRAPPIC;
PROBSTRIANS; BICYCLES; AIR QUALITY; CAPITAL
COSTS; AUTOMOTIVE FLEETS; PERFORMANCE; TABLES
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TRANSPORTATION; CARPOOLING; BUSES (VEHICLES);
VANPOOLS; BITEWAYS; POBLIC TRANSPORTATION;
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RETWORDS: SISTERS ANALYSIS; EMERGY FLOW: EMERGY
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SECTOR: PESIDENTIAL SECTOR: GRAPHS (CHARTS);
PETROLETH: COAL: HIDROELECTRIC POWER: NUCLEAR
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TITLF: "he Distributional Impact of Energy
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TITLE: A Pictorial Characterization of Worldwide
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TRANSPORTATION; CARGO TRANSPORTATION;
TRANSPORTATION; CARGO TRANSPORTATION;

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BATTERIES; INDUSTRIES; RESEARCH; DEVELOPHENT;
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ANTOHOBILES; BUSES (VARICLES); INTERCITY
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TABLES (DATA): TRAVEL TIME: DELAYS
AVAILAPILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20818
\$3.20 for Transportation Research Record 625

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KENFORDS: AIR TRANSPORTATION; EMERGY CONSUMPTION;
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CONSUMPTION; PASSENGER TRANSPORTATION;
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DESIGN; AIRCRAFT; TURBOPROPS
AVAILABILITY; MTIS

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International Business Administration, Office
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ADDRESS: Room 2039, Washington, DC 20230
TITLE: The Automobile Industry in 1976: An
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RETWOODS: US ENDA; REFRGY STORAGE; BATTERIES;
ELECTRIC VERTCLES: LITRIUM-ALUGRINUM/TROM
SULFIDE BATTERIES: RESEARCH PROGRAMS;
ELECTRIC UTILITIES; LOAD MANAGEMENT; LITRIUM; AVAILABILITY AVAILABILITY: NTIS

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T.S. Dept. of Transportation, Transportation
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TTTE: Nethanol as an Automotive Fuel with
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ADDRESS: 2101 Constitution Avenue MW, Washington,
DC 20418
TITLE: Rail Transit

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SISTEMS; LAND USE; TRAFFIC CONTROL; TRANSIT
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ADDRESS: El Segundo, CA 90245
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REMORDS: ALTERWATE FUELS; AUTOMOBILES; EMGINES;
ELECTRIC VEHICLES; RESEARCH; TABLES (DATA);
DIAGRAMS; HISTORY; AUTOMOTIVE FUELS; HYBRID
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INSULATION; RETROFITTING; TABLES (DATA);
HEATING SYSTEMS; COSTS; SOLAR SPACE HEATING;
AIR CONDITIONING; EMERGY CONSUMPTION;
APPLIANCES; EFFICIENCY; COMMERCIAL BUILDINGS;
RECICLING; HATERIALS; HAMPACTURING;
PRODUCTION; WASTE HAWAGEMENT; BEVERAGES;
TRANSPORTATION; PETROLEUM; CARGO
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TRANSPORTATION; POSSENGER TRANSPORTATION;
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REYWORDS: EMERGY CONSERVATION; STATE ANALYSIS;
GOVERNMENT POLICIES; STATE GOVERNMENT;
LIGHTING SISTEMS; PORCASTING; BUILDINGS;
STANDARDS; TABLES (DATA); THERMAL EMPICIENCY;
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ADDRESS: 5285 Port Royal Road, Springfield, VA
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ENGINES; GAS TURBINE ENGINES; STRLING
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EQUIPMENT; OPERATING COSTS
AVAILABILITY: Society of Automotive Engineers
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Tassachusetts Institute of Technology, Dept. of

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ADDRESS: Cambridge, NA 02139
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TABLES (DATA): PASSENGER TRANSPORTATION;
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AVAILABILITY: HTIS

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ADDRESS: Seattle, WA 98105
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AVAILABILITY: NTIS

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RETWORDS: BOATS; VEHICLE REGISTRATIONS;
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Bartlesville Energy Research Center
ADDRESS: P.O. Box 1398, Bartlesville, OK 74003
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KEYBURDS: FUEL CONSUMPTION; AUTOHOTIVE ENTSSIONS;
INTERNAL CONSUMPTION; BUGINES; PERFORMANCE;
TESTING: CARBON MONOXIDE; MITROGEN OXIDES;
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REYWORDS: PUEL COMSUMPTION; AUTOMOTIVE EMISSIONS;
INTERNAL COMBUSTION ENGINES; PERFORMACE;
HYDROCARBONS; CARBON HONDXIDE; NITROGEN
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ADDRESS: Casbridge, HA 02139
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FITLE: The Drag Related Flow Field
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Maximina, D.E. (compiler); Hobley, E.R. (ed.)
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TITLE: Electric Vehicles, 1890-1966: A Bibliography

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ADDPESS: 1700 Main Street, Santa Monica, CA 90406
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RcGillivray, R.G.
Trban Institute
ADDRESS: 2100 N Street NW, Washington, DC 20037
TITLE: Gasoline Use by Automobiles

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ADDRESS: Dearborn, MI 48121
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SIZE; WEIGHT; FUEL ECONOMY; DESIGN; PASSENGER
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Inc, 400 Commonwealth Drive, Warrendale, PA
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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Farrendele, PA
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Federal Energy Administration
ADDRESS: Washington, DC
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EVALUATIONS; CLASSIFICATIONS; TABLES (DATA);
PUBLIC OFINION: CONSUMERS; PRICES;
PERFORMANCE; GRAPHS (CHARTS); ENVIRONMENTAL
PROTECTION AGENCY; SIZE
AVAILABILITY: Society of Automotive Engineers
Inc., 800 Commonwealth Drive, Warrendale, PA
15096

<406>
Head, W.J.; Rogers, G.W.; Smith, R.Z.
California, University of: Alaska, University of, Institute of Social, Rognomic and Governmental Research; U.S. Dept. of State
ADDRESS: CU, Santa Barbara, CA 93109; AU, College, AK 99701; USDS, Washington, DC 20520
TYPE: Transporting Matural Gas from the Arctic:

TITLE: Transporting Matural Gas from the Arctic: The Alternative Systems

1977
SPONSOR: American Enterprise Institute for Public Policy Research
RETWORDS: NATURAL GAS: ARCTIC: PRUDHOE BAY
(ALASKA): EMPIROMMENTAL IMPACT: TABLES
(DATA): MAPS: ECONOMIC AMALYSIS:
TRANSPORTATION: GOVERNMENT POLICIES:
BRGULATIONS: COSTS: CANADA: ALASKA:
TRANSPORTATION SYSTEMS
RVAILABILITY: American Enterprise Institute for Public Policy Research, 1150 Seventeenth St.
MW, Washington, DC 20036 \$3.25

<407> Rechanical Technology Inc., RSD Division TITLE: Characterization Study of an Electric Rotor-Transmission System for Electric Vehicles

Report No. HCP/R2835-01, v.p.
1978, Harch
SPOWSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
AUTOROBILE TRANSMISSIONS; TABLES (DATA); GRAPHS (CHARTS) AVAILABILITY: NTIS

<808> C409>
Rellman, R.S.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Aggregate Auto Travel Porecasting: State
of the Art and Suggestions for Future Research

Report No. PB-263351, DOT-TSC-08T-76-51, 46 p. Report No. PB-263331, DUT-TXC-UBIT-70-31, 40 p.
1976, December

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology
KBIWORDS: TRAVEL; FORECASTING: AUTOROBILES:
HODRIS; VERICLE RILES TRAVELED
AVAILABILITY: HTIS

<409>

Paper No. 780288, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, Pebruary 27 - March 3, 1978, 16 p.

RETWORDS: AUTOHOTIVE ENGINES; VELOCITY; PERFORMANCE; DESIGN; LOAD FACTOR; FU ECONOMY; AUTOHOTIVE CONTROL SYSTEMS; REGRESSION AWALYSIS; AUTOHOTIVE EMISSIONS; TABLES (DATA)

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

Neucik, Z.; Tobler, W.E.; Blumberg, P.N. Pord 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, Hichigan, February 27 - Harch 3, 1978, 16 p.

1978
REYNORDS: HODELS; COMPUTERIZED SIMULATION;
AUTOMOBILES: VELOCITY; HECHANICAL
TRANSMISSIOMS; TIRES; FRICTION; AUTOMOTIVE
ENGINES; PENFORMANCE; GRAPHS (CHANTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

Mercedes-Benz of Worth America Inc., Advertising and Sales Promotion Dept.

ADDRESS: One Mercedes Drive, Montvale, NJ 07645

FITLE: Directory of Diesel Fuel Stations and
Authorized Mercedes-Benz Dealers

112 p. 1977 RETWORDS: RETAIL TRADE; DIRECTORIES; DIESEL PUELS; STATE AWALTSIS; CAMADA; MAPS; AUTOMOBILES; GAS STATIONS; SALES

CR12> <a12>
Righdoll, P.: Hahn, W.F.
Boos, Alien & Hamilton Inc., Design and
Development Division
ADDRESS: Cleveland, OH 86131
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/WASA/0595-78/1, WASA CR-13541, 140 Report No. DOZ/NASA/0595-78/1, NASA CR-13581, 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
RETFORDS: POWER TRAIN SYSTEMS; BLECTRIC VEHICLES;
TECHNOLOGY ASSESSMENT; MOTORS; AUTOMOBILE
TRANSISSIONS; MODELS; DESIGN; COMPUTERIZED
SINULATION; DIAGRAMS; TABLES (DATA)
AVAILABILITY; HTIS

Hiles, D.L.: Wiepoth, G.W.
General Motars Corp., Engineering Staff
ADDRESS: Detroit, NI
TITLE: Optimizing Engine and Car Design for Fuel
Economy and Emissions

Paper No. 760855, published in SAR SP-411, 23-32 1978, August SPONSOR: Society of Automotive Engineers, Milvankee Section Milwakee Section
RETWORDS: POBL ECOMONY: AUTOHOTIVE BHGINEBRING;
AUTOHOSILES; DESIGN; WEIGHT: AUTOHOTIVE
BHISSION CONTROL; PUBL CONSUMPTION; GRAPHS
(CHARTS): PREFORMACE
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Common wealth Drive, Warrendale, PA
15096 for SAE SP-411

Riine, J.A.; Cantwell, C.; Bissler, K. Chilton Co. ADDRESS: Radnor, PA 19089 TITLE: Automobile Characteristics Historical Data

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 BASSS; HISTORY; AUTOHOBILES;
CHARACTSRISTICS; FUEL ECONOMY; PRODUCTION;
TABLES (DATA); AUTOHOFIVE EMISSIONS;
HARUFACTURERS; COMPARATIVE EVALUATIONS;
PROPORNAMER: OPERATION: WIGHT PERFORMANCE: OPERATION: WEIGHT AVAILABILITY: HTIS

<415> Riner, D.K.
Copper Development Association Inc.
ADDRESS: Bireingham, HI
TITLE: Comparison of an Electric Versus a
Gasoline Powered Ttility 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, 25 p. 1976, September

KEYWORDS: CORPARATIVE EVALUATIONS: ELECTRIC VENICLES: TESTING: OPERATING COSTS: HAINTENANCE: VANS: PREPOREANCE; FUEL CONSTRUCTOR AVAILABILITY: Electric Vehicle Council, 90 Park Ave., New York, NY 10016 \$1.50

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C4165 Nitric, S.
Ohio State University, Dept. of Civil Engineering ADDRESS: Columbus, Of TITLE: Nethodology of Comparing Hodes in Urban

Paper presented at the Fifty-Sixth Annual Heeting of the Transportation Research Board, Washington, DC, January 24-28, 1977, 34 p. 1977, January PPOISOR: Ohio State University, Graduate School REYMORDS: URBAN TRANSPORTATION; COMPARATIVE EVALUATIONS; TRANSPORTATION SISTEMS; BAIL TRANSPORTATION; RAPID TRANSIT SYSTEMS; BUSES (VEHICLES); COSTS; BAY AREA RAPID TRANSIT SYSTEMS

C417)
Rittal, R.K.
Union College, Mechanical Engineering Dept.
ADDRESS: Schenectady, NY 12308
TITLE: Energy Intensity of Intercity Passenger
Rail

Report No. DOT/RSPD/DPB/50-78/7, 296 p.
1977, December
SPONSOR: U.S. Dept. of Transportation, Office of SPONSOR: U.S. Dept. of Transportation, Office of University Research REYMORDS: RAIL TRANSPORTATION; EMERGY INTENSITY; PASSENGER TRANSPORTATION; LOAD PACTOR; INTERCIT TRANSPORTATION; EPICIENCY; EMERGY CONSUMPTION; RAILROID CARS; OPERATION; CAPACITY; ELECTRIC RAIL SYSTEMS; AUTOMOBILES; BUSES (WEHICLES); GRAPHS (CHARTS); TABLES (DATA) AVAILABILITY: GPO

CH18> C4107
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, Hay

1977, May
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation SYSTEMS; EMERGY
COMSUMPTION; EMERGY COMSERVATION; URBAN
TRANSPORTATION; BAY AREA PAPID TRANSIT
SYSTEM; CARGO TRANSPORTATION; RAIL
TRANSPORTATION; PASSENGER TRANSPORTATION;
REGULATIONS; CARPOOLING; TRUCKS; PUBL
ECONOMY; INTERCITY TRANSPORTATION; RAPID
TRANSIT SYSTEMS; AIR TRANSPORTATION; TABLES
(DATA); CONFERENCES; COMPUTERIZED SIRULATION
AVAILABILITY; GPO, Stock No. 060-000-00073-5

CB19> Mittal, R.K.; Rose, A. Union College, Mechanical Engineering Dept. <419> COTT. ADDRESS: Schenectady, NY 12308 FITLE: 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 Thiversity Research
FYMORDS: ERW TORK CITY: RAIL TRANSPORTATION;
RAITROAD TRACKS: DISTANCE: BUFFALO (MEW TORK); TRAVEL THE: EMERGY COMSUMPTION;
EFFICIBRCY: AUTOROBILES; URBAN
TRANSPORTATION: SPEED LINITS;
CHAPACTERISTICS: TABLES (DATA): GRAPHS
(CHARTS): COMPARATIVE EVALUATIONS

<420>
Mittal, R.K.; Santamaria, J.
Union College, Mechanical Engineering Dept.
ADDRESS: Schnectady, NT 12308
TITLE: State of the Art in Passenger Pail-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
KEYNORDS: MAILBOADS; EQUIPMENT; PASSENGER
TRANSPOPTATION; PERFORMANCE; LOCOHOTIVES;
RAILROAD CARS; PHYSICAL PROPERTIES;
RECHANICAL PROPERTIES; FUEL CONSUMPTION;
GRAPHS (CHARTS): DIAGRAMS; TABLES (DATA);
EFFICIENCY; ANTRAK
AVAILABILITY: NTIS

<q21>
qobley, R.R. (compiler)
General Rotors Corp., Research Laboratories,
 Library, System on Automotive Safety
 Information
ADDRESS: Warren, RI 48090
TITLE: Bibliography on Electric Vehicles:
 1967-1976

Report No. SASI 77-401, v.p.
1977, April 15
KEYWORDS: ELECTRIC VEHICLES; BIBLIOGRAPHIES;
HISTORY; CONFERENCES; ENVIRONNENTAL IMPACT;
GOVERNHENT POLICIES; AUTOROBILES; BUSES
(VEHICLES); HYBRID ELECTRIC-POWERED VEHICLES;
TPUCKS; VAES; BATTERIES

<a22>
Roncrief, L.W.; Houser, T.W.; Pitrak, P.
Richigan State University, Dept. of Park and
Recreation Resources
ADDPESS: East Lansing, HI
TITLE: The Influence of Gasoline Price and
Availability Upon Recreation Travel Propensity

Communications, 3(5), 931-987
1977
1977
SPONSOR: Upper Great Lakes Regional Commission
RETWORDS: GROOLER: PRICES: RECREATIONAL TRAVEL:
FIEL COMMUNICATION: TOURISM: GREAT LAKES;
REGIONAL ANALYSIS: INCOME: AUTOMOBILES;
ATTITUDES: PUBLIC OPINION

<423>
Nonford, L.G.
Wational Aeronautics and Space Administration,

Lyndon B. Johnson Space Center
ADDRESS: Houston, TX 77058
TITLE: Performance Characteristics of a Diesel
Engine Using Low- and Hedius-Energy Gases as
a Fuel Supplement (Funigation)

Report No. N77-14955, NASA TH X-58188, 23 p.
1976, October
SPONSOR: Mational Aeronautics and Space
Administration
REYNORDS: DIRSEL ENGINES; SOLID WASTES; ALTERNATE
POELS; FURIGATION; DIESEL FUELS; PERFORMANCE;
STHTRETIC FUELS
AVAILABILITY: NTIS

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Hoon, A.E.
Stanford Research Institute
ADDRESS: Henlo Park, CA 94025
TITLE: Energy Study of Railroad Preight
Transportation. Volume 1: Executive Summary
SBI Project TCU 5419, 37 p.
1977, August
SPONSOR: Energy Research and Development
Administration
KEIFORDS: RAIL TRANSPORTATION; CARGO
TRANSPORTATION; EMERGY CONSUMPTION; EMERGY
CONSERVATION; GOVERNMENT POLICIES;
REGULATIONS; ECONOMICS; EQUIPPRENT;
EPFICIENCI; GRAPHS (CHARTS)

<a25>
Aoon, A.E.
Stanford Research Institute
ADDRESS: Henlo Park, CA 90025
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
REYWORDS: RAIL TRANSPORTATION; CARGO
TRANSPORTATION; EMERGY CONSUMPTION; EMERGY
CONSERVATION; GOVERNMENT POLICIES;
REGULATIONS; ECONOMICS; EQUINMENT;
EPPICIEMCI; HISTORY; COMSTRUCTION; RAILROADS;
HODELS; COSTS; TRUCKS; REGULATIONS; TABLES
(DATA); GRAPMS (CHARTS)

<426> Hoon, A.B.; Proctor, H.S. Stanford Research Institute ADDRESS: Henlo Park, CA 94025 TITLE: Energy Study of Railroad Freight Transportation. Volume 4: Efficiency Improvements and Industry Puture

SEI Project 7CU 5419, 155 p.
1977, August
SPONSOR: Energy Research and Development
Administration
RETHORDS: RAIL TRANSPORTATION: CARGO
TRANSPORTATION: EPFICIBNCT: FORECASTING;
TECHNOLOGY: EMERGY CONSERVATION: MARKET;
BESEARCH: BIBLIOGRAPHIES; COSTS; EQUIPMENT

<427>
Notre, N. (ed.)
Hational Academy of Sciences, Fational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. SW, Washington,

<427> DC 20418 TITLE: Transportation Programming and Management Transportation Research Record 585, 7 reports prepared for the 54th Annual Meeting of the Transportation Research Board, 78 p. KEYFORDS: TRANSPORTATION: TANAGEMENT: HIGHWAYS: REFOUNDS: TRANSPORTATION: TANAGEMENT; HIGHWA CONSTRUCTION; PLANBING; SAFETI; PLORIDA; WASHINGTON; STATE GOVERNMENT; GOVERNMENT POLICIES; TABLES (DATA) AVAILABILITY: \$3.60

<428> Morlok. F.K. Morlok, E.R.
Pennsylvania, University of, Civil and Urban
Engineering Dept.
ADDRESS: Philadelphia, PA 1917a
TITLE: An Engineering Analysis and Comparison of
Railroad and Truck Line-Raul Work (Energy) Requirements Paper presented in the proceedings of the Third Mational 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 KETWORDS: PAIL TRANSPORTATION: TRUCKS: ENERGY RETWORDS: RAIL TRANSPORTATION; TRUCKS; EMERGY CONSUMPTION; WEIGHT; VELOCITY; EMERGY DEMAND; COMPARATIVE EVALUATIONS; CARGO TRANSPORTATION; INTERCITY TRANSPORTATION; F7 EL CONSUMPTION; TABLES (DATA); GRAPHS (CHAPTS); BNGINEERING; MODELS; PROPULSION AVAILABILITY: GPO, Stock No. 060-000-00073-5 for entire proceedings

Norrison, 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. 1977, 37 p. 1977, November 1977, November
SPONSOR: U.S. Dept. of Commerce
RETWORDS: DEMOGRAPHY; ECONOMIC IMPACT; REGIONAL
AMALYSIS; POPULATION HIGRATION; EDUCATION;
SOCIAL PROBLEMS; URBAN AREAS; EMERGY
SHORTAGES: NORTHEASTERN STATES; IMPORTS;
GREAT LAKES; SOUTHERN STATES; WESTERN STATES;
POLITICAL OBJECTIVES; RURAL AREAS; PLANNING;
STABILITY; GROWTH; STATISTICS; GRAPHS
(CHAPTS); TABLES (DATA); FAMILY LIFE; HAPS;
LABOR HIGRATION

Morrison, P.A.

Hotor Vehicle Hamufacturers Association of the D. S. Inc. ADDRESS: 300 New Center Building, Detroit, HI 48202 TITLE: Notor Vehicle Facts & Figures 178 Annual publication, 96 p. RETWORDS: HOTOB TRANSPORTATION; STATISTICS; FUEL ECONORY; STANDARDS; TRUCKS; BUSES (VEHICLES); PASSENGER TRANSPORTATION; EMERGY CONSERVATION: ECONOMIC AMALYSIS:
HANDTACTURERS; GRAPHS (CRARTS); FUEL
COMSUMPTION; EMISSIONS; AIR TRANSPORTATION;
EXPORTS; WATER TRANSPORTATIOR; TALES; RAIL
TRANSPORTATION; EMPLOYMENT; EARNEWGS; ROADS;
ACCIDENTS; VEHICLE REGISTRATIONS; OWNERSHIP; PRODUCTION; VEHICLE HILES TRAVELED

(431) Hotor Vehicle Hanufacturers Association of the U.S. Inc., Statistics Dept. ADDRESS: 300 New Center Building, Detroit, HI TITLE: World Notor Vehicle Data: 1977 Edition Annual publication, 206 p. 1977 1977
KEYWORDS: STATISTICS: VEHICLES: TABLES (DATA):
INTERNATIONAL TRADE: PRODUCTION: EXPORTS:
VEHICLE REGISTRATIONS: APRICA: ASIA: EUROPE:
IMPORTS: AUSTRALIA: NEW ZEALAND; REGIONAL
ANALYSIS: NORTH ARERICA: SOUTH AMERICA
AVAILABILITY: \$20.00

Notor Vehicle Manufacturers Association of the U.S. Inc., Statistics Dept. ADDRESS: Detroit, MI 48202 TITLE: Notor Vehicle Pactory Sales from Plants in U.S. & Canada

Weekly publication, Series No. PS-4, v.p. Reekly publication, when the second s

C433>
Notorcycle Industry Council Inc., Research and Statistics Dept.
ADDRESS: 4100 Buck Street, Suite 101, Newport Beach, CA 92660
TITLE: 1978 Hotorcycle Statistical Annual Annual report, 46 p.

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1978
KEYWORDS: NOTORCYCLES; STATISTICS; HARKET;
YEHICLE REGISTRATIONS; HAMOPACTURESS;
UTILIZATION; VEHICLE HILES TRAVELED;
FINANCIAL DATA; SALES; IMPORTS; OPERATING
COSTS; ACCIDENTS; OWNERS; COSTS AVAILABILITY: \$5.00

<434>

Budget Issue Paper, 73 p.
1977, February
RETWORDS: URBAW TRAWSPORTATION; HASS
TRAWSPORTATION; GOVERNMENT POLICIES; BUDGETS;
CAPITAL; INVESTMENTS
AVAILABILITY: GPO \$1.65

(435) Rueller Associates Inc. <435> CONT. ADDRES: Baltimore, ND TITLE: Status of Alcohol Fuels Utilization Technology for Highway Transportation

Report No. HCP/H2923-01, 132 p.
1978, June
SPONSOR: U.S. Dept. of Emergy, Division of
Transportation Emergy Conservation
RETYOPDS: ALTERNATE FUELS; UTILISATION; ALCOHOL RELOWDS: ALTERNATE FUELS; UTILIZATION; RECORD.
TO ELS; HIGHWAY TRANSPORTATION; METHANOL;
ETHANOL; TESTING: ENGINES; ENISSIONS;
PREPORMANCE; FUEL ECONOMY; FUEL CONSUMPTION;
COMPARATIVE EVALUATIONS; PROPERTIES; COSTS;
GRAPHS (CHARTS); WATER
AVAILABILITY: HTIS

CB 365 Rueller Associates Inc. ADDRESS: Baltimore, MD TITLE: Penaturants for Ethanol/Gasoline Blends

Report No. ECP/M2098-01, 16 p.
SPORSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REYMORDS: ETHANOL; GASOLINE: ALTERNATE FUELS;
DERATURANTS

C437>
Rufti, P.K.; Golfin, L.S.; Dougherty, C.D.
Delaware Valley Regional Planning Commission
ADDRESS: Philadelphia, PA
FITLE: Fodal-Choice Analysis of an Exclusive Bus
and Car-Pool Lane (Abridgment)

Paper published in Transportation Research Record 626, 27-29 1977

1977
SPONSOR: U.S. Dept. of Transportation, Federal Highway Administration; U.S. Dept. of Transportation, Urban Hass Transportation Administration; New Jersey Dept. of Transportation New Jersey Dept. of Transportation New Jersey Dept. of Transportation; New Jersey Dept. of 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

Peat, Marwick, Mitchell and Co.
TITLE: Meltiproject Scheduling for Transportation
Construction Programs

Report presented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 585, 17-24 KRYWORDS: TRANSPORTATION; CONSTRUCTION;

SCHEDULING: STATE GOVERNHEUT; HANAGEBERT;
FUNDING: FLORIDA; PLANNING
AVAILABILIT: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3,60 for Transportation Research Record 585

(839) Rundy, R.A. Tennessee, University of, Transportation Center ADDRESS: Knozville, TW TITLE: Hass Transit Guidelines Versus a Consumer

Orientation in Public Transportation Systems Paper published in Transportation Research Record 625, 33-37

SPOWSOR: Mational Cooperative Highway Research

POSSOR: Fational Cooperative maynes, number Program
REYMODDS: 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> Runson, J.S.: Brainard, J.P.
Brookhaven Mational Laboratory, Mational Center
for Analysis of Energy Systems, Policy
Analysis Division
ADDRESS: Upton, NY 11973
TITLE: The Energy Situation in the Mid-Atlantic

Report No. Bul 50703, 253 p.
1977, August
SPOMSOR: U.S. Dept. of Energy
KETFORDS: HIDDLE ATLANTIC STATES; EMERGY
SUPPLIES; EMERGY DEMAND; DISTRICT OF
COLUMBIA; DELAWARE; MARTLAND; MEW JERSEY; MEW
TORK; ONTO; PEMNSILVANIA; PUERTO RICO;
PIRGINIA; VIRGIN ISLANDS; EBERGY CONSUMPTION;
PETROLEUM; NATURAL GAS; COAL; HUCLEAR EMERGY;
HYDROELECTRIC POWER; TABLES (DATA); REGIONAL
ANALYSIS; STATE ANALYSIS; ELECTRIC UTILITIES;
PRODUCTION; EMPLOYMENT; GRAPRS (CHARTS);
PRICES; ENVIRONMENTAL IMPACT; AIP QUALITY;
WATER QUALITY; EMERGY COMSERVATION;
GOVERNMENT POLICIES; LEGISLATION
AVAILABILITY; NTIS Report No. BWL 50703, 253 p. AVAILABILITY: MTIS

<441> Hurrell, J.D. D.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

1978
SPONSOR: Society of Automotive Engineers
RETWORDS: FUEL ECONOMY; AUTOMOBILES: TRUCKS;
STANDARDS: WEIGHT; GRAPHS (CHARTS); HISTORY;
HANUFACTURERS: TABLES (DATA); SALES
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<442> **aill, 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: MATIONAL EMERGY PLAM: EMERGY POLICY;
EMERGY MODELS: EMERGY COMSERVATION; PETROLEUH; MATURAL GAS; COAL; PRICES; FORECASTING; EMERGY DEMAND; IMPORTS; PRODUCTION; COMPARATIVE EVALUATIONS; GOVERNMENT POLICIES; OPEC; EMERGY CONSUMPTION

<qqa>
Fational Academy of Sciences, Hational Research Council, Assembly of Life Sciences, Committee on Toxicology
ADDRESS: Washington, DC
TITLE: Fuels and Fuel Additives for Highway
Wehicles and Their Combustion Products: A Guide to Evaluation of Their Potential
Effects on Health

#9 p.
1976
SPONSON: U.S. Environmental Protection Agency
RETWORDS: HIGHWAY TRANSPORTATION: HOTOR VERICLES;
PTELS: PUBL ADDITIVES: AUTOROTIVE ERISSIONS;
HEALTH HAZARDS; TOXICITY; POLLUTION
REGULATIONS; STANDARDS: TESTING
AVAILABILITY: Mational Academy of Sciences, 2101
Constitution Avenue, Fashington, DC 20418

<885> Wational Acadesy of Sciences, Mational Research Council, Highway Research Board ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418 TITLE: Travel Behavior Righway Research Record Mo. 486, papers presented at the Pifty-Second Annual Reeting of the Highway Research Board, 66 p.

nighway Research Board, 66 p.
1973
REYWORDS: TRAVEL; BEHAVIOR; URBAN TRANSPORTATION;
DEHAND (ECONOMICS); INTERCITY TRANSPORTATION;
WODELS; CHICAGO
AVAILABILITY: \$2.20

NODELS: CRICAGO AVAILABILITY: \$2.20

<886> Bational Academy of Sciences, National Research Council, Highway Research Board ADDRESS: 2101 Constitution Ave. NV, Washington, DC 20418 TITLE: Transportation Forecasting

Highway Research Record No. 472, papers presented at the Fifty-Second Innual Reeting of the Highway Research Board, 120 p. 1973

1973
KETHORDS: TRANSPORTATION; FORECASTING; PLANKING; URBAN TRANSPORTATION; RECREATION; RODELS; AUTOMOBILES; OWTERS; REGIONAL ANALISIS; AIR TRANSPORTATION; PASSENGER TRANSPORTATION; TRAVEL; DENAND (ECONOMICS); SURVEYS; GRAPHS (CHARTS)

<447>
Wational Academy of Sciences, Mational Research
Council, Highway Research Board
ADDRESS: 2101 Constitution Avenue MW, Washington,
DC 20418
TITLE: Highway and Urban Transportation in the
1970's and 1980's

Special Report 122, a panel discussion at the plenary seasion of the 50th Annual Heeting of the Highway Research Board, January 19, 1971, 23 p.

KEYNORDS: HIGHWAY TRANSPORTATION; ORBAN TRANSPORTATION; FORECASTING; SOCIO-ECONOMIC FACTORS; FUNDING; TECHNOLOGY; HOUSING

<448>
Wational Academy of Sciences, Mational Research Council, Highway Research Board
ADDRESS: 2101 Constitution Ave., NW, Washington, DC 20418
TITLE: Highway Capacity Hanual: 1965

RRB Special Report 87, 411 p.
1976, September
KEYMORDS: HIGHWAYS; DESIGN; TRAFFIC CONTROL;
TRAFFIC; VELOCITY; CAPACITY; PEAK-HOUR
DENAND; HIGHWAY TRAMSPORTATION; RURAL AREAS;
URBAN AREAS; BUSES (VEHICLES); DELAYS; DAILY
VARIATIONS; TABLES (DATA); PHOTOGRAPHS;
OPTINIZATIOF; GRAPHS (CHARTS); CONSTRUCTION
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
eacon

(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 Plow

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 Hinistry of Transport REMODDS: URBAN TRANSPORTATION: PLANBUNG: CARGO TRANSPORTATION; TRUCKS; INTERCITY TRANSPORTATION; COSTS: GOVERNMENT POLICIES; FORECASTING: TRAFFIC: LABOR RELATIONS; TONNAGE; TABLES (DATA)

AVAILABILITY: \$6.00

C450>
Hational Academy of Sciences, Hational Research
Council, Transportation Research Board
ADDRESS; 2101 Constitution Ave. NP, Washington,
DC 20418
TITLE: New Approaches to Travel Forecasting

Transportation Research Record 569, papers
prepared for the 54th Annual Heeting of the
Transportation Research Board, 157 p.

1976
KBTWORDS; TRAVEL; FORECASTING; COMPERENCES;
TRAPPIC; PLANNING; BENAVIOR; AUTOMOBILES;
OWNERS; ORBAN TRANSPORTATION; MODELS;
SHOPPING; RECREATION; COMBUTTING; INTERCITY
TRANSPORTATION; DEHAND (ECONOMICS); GRAPHS
(CHAPTS)
AVAILABILITY; 86.00

Casts

Rational Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NV, Vashington,
CC 20418
TITLE: Proight Transportation Characteristics

Transportation Research Record 591, 53 p. 1976 RETTORDE: CARGO TRANSPORTATION: PLANSING: DEMAND (SCOUPRICS): URBAY TRANSPORTATION: RAIL
TRANSPORTATION: INTERNATIONAL TRADE; TRUCKS
AVAILABILITY: \$2.60

C432>
Rational Acadesy of Sciences, Rational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. SV, Rashington,
CC 20418
TITLE: Air Travel and Aviation Pacilities Planning

Transportation Research Record 529, papers presented at the 54th Annual Heeting of the Transportation Research Board, 43 p.

1975

**PTHORDS: AIR TRANSPORTATION; AIRPORTS;

**PTHORDS: AIR TRANSPORTATION; AIRPORTS;

**PTROWNERTAL IMPACT; LAND USS; NOISE

**POLLUTION; WATER POLLUTION; AIR POLLUTION;

**SOCIO WASTES; **CORONICS; **ERF TORK CITT;

SOCIAL IMPACT ASSESSMENT; DENKED (ECOMORICS);

CORTS: GRAPHS (CHARTS); **PLANNING; **RODELS

**AVAILABILITY; \$2.00

<453>
Rational Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NV, Washington, DC 20418 TITLE: Travel Behavior and Values

Transportation Research Record 534, papers presented at the 58th Annual Recting of the Transportation Research Board, 75 p. 1975
RETFORDS: TRAVEL; BEHAVIOR; PORDCASTING; URBAN
TRANSPORTATION; SOCIO-BEOMORIC PACTORS;
MATHNATICAL HODELS; TABLES (DATA); GRAPHS
(CHARTS); VALUES
AVAILABILITY; \$3.20

Rational Academy of Sciences, National Research Council, Transportation Research Foard ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418 TITLE: The Bicycle as a Transportation Hode

Transportation Research Record 570, 3 reports
prepared for the 53rd Annual Heeting and 6
reports prepared for the 54th Annual Heeting
of the Transportation Research Board, 45 p.

1976
#SYPODDS: DICTCLES: TRADSPORTATION: LEGISLATION:
PLANNING: DRSIGN: DRVELOPHENT: DRSAW
TRAPSPORTATION: SAPETY: BIKEWAYS: TABLES
(DATA): SIMULATION: MODELS

Pational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. BW, Washington, DC 20418 TITLE: Planning and Programming for Transportation

Transportation Research Becord 574, papers presented at the 54th Annual Heeting of the Transportation Research Board, 58 p.

TRANSPORTATION; COS ANGELES; REGIOVAL AWALYSIS; NODELS; SAIGON (VIRTHAM); PUBLIC TRANSPORTATION; GRAPHS (CHARTS); TABLES (DATA) AVAILABILITY: \$2.60

<456> Council, Transportation Research Board
Louncil, Transportation Research Board
LDDESS: 2101 Constitution Lve. NY, Washington,
DC 20618
TITLE: Transportation Characteristics of Track,
Rail, and Water Freight

Report No. PB-256000, Transportation Research Record No. 577, papers presented at the 58th Annual Heeting of the Transportation Research Board, 51 p.

1976
RETWOODS: TRANSPORTATION: TRUCKS; RAIL
TRANSPORTATION: WATER TRANSPORTATION; BARGES;
INLAWD WATERWAYS; CARGO TRANSPORTATION;
TABLES (DATA); GRAPHS (CHARTS); COMMODITIES;
FORECASTING; RAILROADS; WISCOWSIN; STATE
GOVERNMENT; COMPUTERIZED SIMULATION; RAILROAD
CARS; PLANNING
AVAILABILITY: Transportation Research Board
\$2.20; WIIS 1976

Rational Academy of Sciences, Mational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20419 TITLE: Intercity Preight Hovement by Reil and Highway

Transportation Research Record 511, papers presented at the Fifty-Third Annual Heating of the Highway Research Board, ISSF 0-309-0235-6, 80 p. 1974

RETHORDS: CARGO TRANSPORTATION; INTERCITY TRANSPORTATION; RAIL TRANSPORTATION; HIGHTAY TRANSPORTATION; HARKET; URBAN TRANSPORTATION; PLANNING; STATE GOVERNMENT; WISCONSIN AVAILABILITY; \$2.20

National Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution ave. NW, Washington, DC 20418 TITLE: Travel Demand Porecasting

Fransportation Remearch Record 526, papers presented at the Fifty-Third Annual Heeting of the Highway Research Board, 105 p.

1978
KEYMODDS: TRAYEL; DEMAND (RCOMONICS);
PORTCASTING; AIR TRANSPORTATION; URBAN
TRANSPORTATION; PLANNING; BERNYLOR;
TRANSPORTATION; PASSENGER TRANSPORTATION;
HODELS: INTERCITY TRANSPORTATIOR
AVAILABILITY; 54, 40

Fational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. WW, Washington, DC

<459> <459> COST. 8: Social, Economic, and Environmental Implications in Transportation Planning Transportation Research Record 583, papers presented for the 58th Annual Resting of the Transportation Research Board, 95 p.

1976
KETHORDS: SOCIAL IMPACT; ECONOMIC IMPACT;
SOCIO-ECONOMIC PACTORS; ENVIRONMENTAL IMPACT;
TRAMSPORTATION; PLAMMING; GOVERNMENT
POLICIES; TRAVEL: BERAVION; HASSACHUSETTS;
P*VIRONMENTAL IMPACT STATEMENTS; ECONOMICS;
AUTONOBIES; ONNERSHIP; NORTH CAROLINA; URBAN
AFRAS; LOCAL GOVERNMENT; STATE ARALYSIS
AVAILABILITY: \$4.00

Rational Academy of Sciences, Rational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue HW, Washington, DC 20418 FITLE: Transit Planning

Transportation Research Record 559, papers prepared for the 54th Annual Resting of the Transportation Research Board, 132 p. 1976 KRYWORDS: PLANNING: TAXICABS; RAPID TRANSIT RRYWORDS: PLANUING; TAILCADS; RAPID TRANSIT STSTEMS; TRANSPORTATION SYSTEMS; PASSENGER TRANSPORTATION; BUSES (VERICLES); COMMUTING; URBAN TRANSPORTATION; COMPARATIVE EVALUATIONS; BENAVIOR; COSTS; TRANSPORTATION DISADVANTAGED; TABLES (DATA); GRAPHS (CHARTS); ROBAL AREAS; HOBILITY AVAILABILITY: \$10.00

Rational Academy of Sciences, Rational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue NH, Washington, DC 20418
TITLE: Public Transportation Planning

Transportation Research Record 563, papers prepared for the 54th Annual Reeting of the Transportation Research Board, 96 p. KETWORDS: PUBLIC TRANSPORTATION; PLANNING; URBAN KETHORDS: PUBLIC TRANSPORTATION; PLANNING; URBAN TRANSPORTATION; STATE GOVERNMENT; LEGISLATION; CONSUMERS; ATTITUDES; ATLANTA; DIAL-A-RIDE; BUSES (VENICLES); LOCAL GOVERNMENT; TABLES (DATA); GRAPPS (CHARTS); CALIFORNIA; BAY AREA RAPID TRANSIT SYSTEM; PARK-AND-RIDE; TRANSPORTATION DISADVANTAGED; INDIBAS; STATE AWALYSIS

C002>
Hatiomal Academy of Sciences, Mational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue MW, Washington,
DC 20418
TITLE: Regional Bus Transportation

Transportation Research Record 546, papers prepared for the 54th Annual Heeting of the Transportation Research Board, 63 p. 1975 1975
RETFORDS: REGIONAL ANALYSIS; BUSES (VEHICLES);
FIBLIC TRANSPORTATION; RIGHT-OF-WAY; RAPID
TRANSIT SYSTEMS; CAPACITY; PLANNING; LOS
ANGELES; PASSENGER TRANSPORTATION; HIGHWAYS;
TRAPPIC COTTROL
AVAILABILITY: \$2.60 Ceo;)
Hational Academy of Sciences, Fational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NY, Vashington,
DC 20418 TITLE: Rail Transit Development Transportation Research Record 552, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 57 p. RESTORDS: RAIL TRANSPORTATION; URBAN

TRANSPORTATION; PUBLIC TRANSPORTATION; BAY AREA RAPID TRANSIT SYSTEM; EMERGY CONSUMPTION; TRANSPORTATION SYSTEMS; BAPID TRANSIT SYSTEMS; ECONOMICS; TABLES (DATA); GRAPPS (CHARTS); BUROPE; REGIODAL AVALYSIS AVAILABILITY: \$2.60

Vational Academy of Sciences, Mational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418 TITLE: Emergy Effects, Efficiencies, and Prospects for Various Hodes of Transportation

Hational 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 KEYGORDS: EMERGY CONSUMPTION; EFFICIENCT; FORECASTING; TRANSPORTATION; PLANSUMG; COMPARATIVE EVALUATIONS; PASSENGER TRANSPORTATION; CARGO TRANSPORTATION; EMERGY COMSERVATION; AUTOMOBILES; BUSES (VEHICLES); GRAPHS (CHARTS); TABLES (DATA); RAIL TRANSPORTATION; AIR TRANSPORTATION; BICYCLES; WATER TRANSPORTATION; RIGHWAY TRANSPORTATION; PIPELIMES; SLURPY PIPELIMES

<465> <465>
National Academy of Sciences, National Research Council, Transportation Research Board, Commission on Sociotechnical Systems
ADDRESS: Washington, DC
FITLE: Scope and Plan for a Study of Transportation Emergy Research Needs and Priorities. A Report to the Energy Research and Development Administration

1976
SPONSOR: Energy Research and Development
Administration
RETWORDS: PLANWING; TRANSPORTATION; RESEARCH; US
REDA; EMERGY DEMAND; EMERGY SUPPLIES; EMERGY
RESOURCES; FORECASTING; EMERGY CONSERVATION;
DRMAND (ECONOMICS); GOVERNMENT POLICIES;
SOCIO-ECONOMIC PACTORS
AVAILABILITY: National Academy of Sciences, 2101
Constitution Ave., Washington, DC 20418

Wational Aeronautics and Space Administration, Levis Research Center
ADDRESS: Cleveland, OR 44135
TITLE: State-Of-The-Art Assessment of Electric
and Hybrid Vehicles

Report No. HCP/R1011-01, v.p. 1978, January

<a>51>
Tational loadesy of Sciences, Fational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ive. HF, Tashington,
DC 20818
TITLE: Proight Transportation Characteristics

Transportation Research Record 591, 53 p.
1976
RETTORDS: CABEC TRANSPORTATION: PLANSING: DENAND
(SCONORICS): URBAN TRANSPORTATION: RAIL
TRANSPORTATION: INTERNATIONAL TRADE; TRUCKS
AVAILABILITY: \$2,60

<452>
Fational Academy of Sciences, Fational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. BV, Washington,
CC 20418
FITTE: Air Travel and Aviation Pacilities Planning

Transportation Research Record 529, papers presented at the 54th Annual Heeting of the Transportation Research Board, 43 p. 1975

1975

***PTHORDS: AIR TRANSPORTATION; AIRPORTS;

***PTHORDS: AIR TRANSPORTATION; AIRPORTS;

***PTROWNERTAL IMPACT: LAND USS; NOISE

**POLLUTION; WATER POLLUTION; AIR POLLUTION;

**SOLID WASTES; RCORORICS; HER TORK CITT;

**SOCIAL IMPACT ASSESSMENT; DEBLAND (RCOMORICS);

COSTS; GRAPHS (CHARTS); PLANNING; MODELS

AVAILABILITY; \$2.00

<453>>
Rational Academy of Sciences, Mational Research
Council, Transportation Research Board
ADDRESS: 2101 Committation Ave. BY, Washington,
DC 20418
TITE: Travel Behavior and Values

Transportation Research Record 534, papers presented at the 58th Annual Recting of the Transportation Research Board, 75 p. 1975
RETWORDS: TRAVEL; BERAVIOR; PORECASTING; URBAN TRANSPORTATION; SOCIO-BCOMOREC PACTORS; MATHURATICAL RODELS; TABLES (DATA); GRAPHS (CRARTS); VALUES
AVAILABILITY: \$3.20

<454> Rational Academy of Sciences, National Research Council, Transportation Research Foard ADDRESS: 2101 Constitution Ave. NN, Washington, DC 20418 TITLE: The Bicycle as a Transportation Hode

Transportation Research Record 570, 3 reports
prepared for the 53rd Annual Heeting and 6
reports prepared for the 54th Annual Heeting
of the Transportation Research Board, 45 p.

THE PROPERTY OF STREET STR

<455>
Bational Academy of Sciences, Mational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NV, Washington, DC 20418
TITLE: Planning and Programming for Transportation Transportation Research Record 574, papers presented at the 54th Annual Heeting of the Transportation Research Board, 58 p.

1976
ENYTORDS: PLANNING: TRAVEL; TRANSPORTATION: URBAN TRANSPORTATION: LOS ANGULES; REGIONAL ANALYSIS: HODELS: SAIGON (VIRTNAM); PUBLIC TRANSPORTATION; GRAPHS (CHARTS); TABLES (DATA) AVAILABILITY: \$2.60

<455>
National loademy of Sciences, National Research
Council, Transportation Research Board
ADDESS: 2101 Constitution Ive. BV, Washington,
DC 20418
TITLE: Transportation Characteristics of Truck,
Rail, and Water Freight

Report No. 78-256000, Transportation Research Record No. 577, papers presented at the 58th hanual Heeting of the Transportation Research Board, 51 p.

SOARD, 51 p.
1976
RETWOODS: TRANSPORTATION; TRUCKS; RAIL
TRANSPORTATION; WATER TRANSPORTATION; BARGES;
INLAWD WATERWAYS; CARGO TRANSPORTATION;
TABLES (DATA): GRAPHS (CHRRTS): COMMODITIES;
PORECASTING: RAILROADS; WISCOWSIE; STATE
GOVERNMENT; COMPOTERIZED SIMULATION; RAILROAD
CARS; PLAWFING
AVAILABILITY: Transportation Research Board
\$2.20; WIIS

Transportation Research Record 511, papers presented at the Fifty-Third Annual Heating of the Highway Research Board, ISSF 0-309-0235-6, 80 p.

1974
RETHORDS: CARGO TRANSPORTATION; INTERCITY
TRANSPORTATION; RAIL TRANSPORTATION; HIGHWAY
TRANSPORTATION; HARKET; URBAN TRANSPORTATION;
PLANNING: STATE GOVERNHENT; WISCONSIN
AVAILABILITY: \$2, 20

<456>
Bational Academy of Sciences, National Research
 Council, Transportation Research Board

ADDRESS: 2101 Constitution Ave. NW, Washington,
 DC 20416

TITLE: Travel Demand Forecasting

Fransportation Research Record 526, papers presented at the Fifty-Third Annual Heeting of the Highway Research Board, 105 p.

1974
REYMORDS: TRAVEL; DERAND (RCORONICS);
PORECASTING; AIR TRANSPORTATION; URBAN
TRANSPORTATION; PLANSING; BHRAVIOR;
TRANSPORTATION; PASSENGER TRANSPORTATION;
HODELS; INTERCIT TRANSPORTATIOR
AVAILABILITY; \$4, 40

<459>
Sational Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. WW, Washington, DC</br>

1976
KETHORDS: SOCIAL IMPACT; ECONOMIC IMPACT;
SOCIO-ECONOMIC PACTORS: ENVIRONMENTAL IMPACT;
TRANSPORTATION; PLANNING; GOVERNMENT
POLICIES; TRAVEL; BERAVIOR; RASSACHUSETTS;
PPUTRONHENTAL IMPACT STATERESTS; ECONOMICS;
AUTOROBILES; OWNERSHIP; HORTH CAROLINA; URBAN
AR SAS; LOCAL GOVERNMENT; STATE ANALYSIS
AVAILABILITY: \$4.00

<460> Bational Academy of Sciences, Rational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue NV, Washington, DC 20418 FITLE: Transit Planning

Transportation Research Record 559, papers prepared for the 54th Annual Resting of the Transportation Research Board, 132 p. 1976
RRINGRDS: PLAWNING: TAXICABS: RAPID TRANSIT STSTEMS: TRANSPORTATION SYSTEMS: PASSENGER TRANSPORTATION: BUSSES (VERICLES): CONHUTING: URBAN TRANSPORTATION: COMPARATIVE EVALUATIONS: BEHAVIOR: COSTS: TRANSPORTATION DISADVANTAGED: TABLES (DATA): GRAPHS (CHARTS): RUBAL AREAS; HOBILITY AVAILABILITY: \$10.00

<461>
Rational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue SW, Washington, DC 20418
TITLE: Public Transportation Planning

Transportation Research Record 563, papers prepared for the 54th Annual Reeting of the Transportation Research Board, 96 p. 1976

KEIWCRDS: PUBLIC TRANSPORTATION; PLANNING; URBAN TRANSPORTATION; STATE GOVERNMENT; LEGISLATION; CONSUMERS; ATTITUDES; ATLANTA; DIAL-A-RIDE; BUSES (VERICLES); LOCAL GOVERNMENT; TABLES (DATA); GRAPHS (CHARTS); CALIFORNIA; BAY AREA RAPID TRANSIT SYSTEM; PARK-RND-RIDE; TRANSPORTATION DISADVANTAGED; INDIBMS; STATE AWALYSIS

<462>
Bational Academy of Sciences, Mational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue MM, Washington, DC 20418
TITLE: Regional Bus Transportation
Transportation Research Record 546, papers prepared for the 54th Annual Heeting of the Transportation Research Board, 63 p. 1975
RETWORDS: REGIONAL ANALYSIS: BUSES (VEHICLES);

1975
RETFORDS: REGIONAL ANALYSIS; BUSES (VEHICLES);
FOBLIC TRANSPORTATION; RIGHT-OF-WAY; RAPID
TRANSIT SYSTEMS; CAPACITY; PLANNING; LOS
ANGELES; PASSENGER TRANSPORTATION; HIGHWAYS;
TRAPPIC CONTROL
AVAILABILITY: \$2.60

<863>
Bational Academy of Sciences, Fational Research
Council, Transportation Research Foard
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20818
TITLE: Rail Transit Development

Transportation Research Record 552, papers
prepared for the 54th Annual Meeting of the
Transportation Research Board, 57 p.

1975
REYWORDS: RAIL TRANSPORTATION; URBAN
TRANSPORTATION; PUBLIC TRANSPORTATION; BAY
AREA RAPID TRANSIT SYSTEM; EMERGY
CONSUMPTION; TRANSPORTATION SYSTEMS; RAPID
TRANSIT SISTEMS; ECONOMICS; TABLES (DATA);
GRAPMS (CHARTS); BUROPE; REGIONAL ANALYSIS
AVAILABILITY: \$2.60

C464>
Wational Academy of Sciences, Wational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Energy Effects, Efficiencies, and
Prospects for Various Hodes of Transportation
Wational Cooperative Highway Research Program
Synthesis of Highway Practice %3, 63 p.
1977

Synthesis of Highway Practice %3, 63 p.
1977
SPONSOR: American Association of State Highway
and Transportation Officials; U.S. Dept. of
Transportation, Federal Highway Administration
KEYWORDS: EMERGY COMSUMPTION; EMPICIENCY;
FORECASTING; TRANSPORTATION; PLANNING;
COMPARATIVE EVALUATIONS; PASSENGER
TRANSPORTATION; CARGO TRANSPORTATION; EMERGY
COMSERVATION; AUTONOBILES; BUSES (VEHICLES);
GRAPHS (CHARTS); TABLES (DATA); RAIL
TRANSPORTATION; AIR TRANSPORTATION; BICYCLES;
WATER TRANSPORTATION; HIGHWAY TRANSPORTATION;
PIPELIMES; SLURPY PIPELIMES
AVAILABILITY; \$4.00

<465>
National Academy of Sciences, National Research Council, Transportation Research Board, Consission 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
REIWORDS: PLANBING; TRANSPORTATION; RESEARCH; US
REDA; EMERGY DEMAND; EMERGY SUPPLIES; EMERGY
RESOURCES; FORECASTING; EMERGY CONSERVATION;
DEMAND (ECOROBICS); GOVERNMENT POLICIES;
SOCIO-ECOMONIC FACTORS
AVAILABILITY: National Academy of Sciences, 2101
Constitution Ave., Washington, DC 20418

<466>
Wational Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: State-Of-The-Art Assessment of Electric
and Hybrid Vehicles

Report No. HCP/R1011-01, v.p. 1978, January

<665> COFT.
SPONSOR: U.S. Dept. of Emergy, Division of Transportation Emergy Conservation
XEYWORDS: ELECTRIC VERICLES; HYBRID
ELECTRIC-POWERRD VEHICLES; EQUIPMENT;
TESTING: TABLES (DATA); BATTERIES; SURVEYS;
PERFORMANCE; ELECTRIC VERICLE RANGE; EMERGY
CONSUMPTION; BELIABILITY
AVAILABILITY: WITS

<467>
Wational Aeronautics and Space Administration, Lewis Research Center
ADDRESS: Cleveland, OH
TITLE: Twelve State-of-the-Art Individual
Electric and Hybrid Vehicle Test Reports.
Yolume I

Report Fo. HCP/H1011-03/1, v.p.
1978, July
SPOWSOR: T.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYORDS: ELECTRIC VEHICLES; H.ABID
ELECTRIC-POWERED THEICLES; TESTING; DRIVING
CTCLE: EMERGY CONSUMPTION; PERFORMANCE;
DESIGN; BATTERIES; TABLES (DATA); GRAPHS
(CHARTS); HANDFACTURERS
AVAILABILITY: WHIS

<468>
National Association State Directors of Pupil Transportation Services
TITLE: 1975-76 Statistics on Pupil Transportation

3 p.
RETWOODS: STATE ANALYSIS; EXPENDITURES; BUSES
(VERICLES); STATISTICS; OWNERSHIP; SCHOOLS;
CHILDREN

<469>
 #ational Petroleum Council
 TITLP: Potential for Energy Conservation in the
 United States: 1979-1985

204 p.
1975, August 6
SPOPBOR: U.S. Dept. of Interior
RETWORDS: ENERGY CONSERVATION: INDUSTRIAL SECTOR;
TRANSPORTATION; COMMERCIAL SECTOR:
RESIDENTIAL SECTOR: ELECTRIC UTILITIES;
TABLES (CHAR); FOR ECASTING; HEAR PUMPS;
APPLIANCES; SOLAP ENERGY; AUTOHOBILES; FUEL
CONSUMPTION; EMISSIONS; DESIGN; REGULATIONS;
TECHNOLOGY

<470>
Wational Petroleum News
ADDRESS: 1221 Ave. of the Americas, New York, NY
10020
TITLF: 1978 Wational Petroleum News Pactbook Issue

Hational Petroleum News, 70 (6A), 209 p.
1978, Mid-June
REYMOPDS: AIR TRANSPORTATION; STATE AMALYSIS;
FIMANCIAL DATA: TIRES; BATTERIES;
DIRECTORIES; PUBL OIL; MILEAGE; GAS STATIONS;
AVIATION FUELS; AUTOMOBILES; MARRFTING;
TTMCRS; AUTOMOBILE DRIVERS; CAPITAL COSTS;
ETERGI DEMAND; AIR POLLUTION; ADVERTISING;
GASOLINE; PETROLEUM; UNLEADED AUTOMOTIVE FUELS

<471>
Helson, P.A.; Chilenskas, A.A.; Steumenberg, R.K.
Argonne Mational 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. AML-8075, 24 p.
1974, November
SPONSOR: U.S. Atomic Energy Commission
KRYWORDS: BATTERIES; AIR POLLUTION; FORECASTING;
LITHIUM-SULPUR BATTERIES; ELECTRIC VRHICLES;
ECONOMIC ANALISIS; COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

<472>
Revew, A.J.
Rev Tork State Dept. of Transportation, Planning Division
ADDRESS: State Caspus, 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
KEYNORDS: SURVEYS: HEW YORK; EMERGY CONSERVATION;
TRANSPORTATION; REGIONAL ANALYSIS; AGE
GROUPS; SEX; EMERGY POLICY; PUBLIC OPINION;
HASS TRANSPORTATION; INCENTIVES;
TRANSPORTATION DISADVANTAGED; 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 Wational Surveys, Code Book and
Processing Guide

Report No. PB-272449, FEA/DF-77/001A, 233 p.
1977, September
KEYWORDS: SURVEYS; RESIDENTIAL SECTOR; EMERGY
CONSUMPTION; COSTS; ELECTRIC POWER DEFAND;
HATURAL GAS; FUEL OIL; SPACE HEATTRG; AIR
CONDITIONING; WATER HEATERS; LIFE STYLE;
AUTOMOBILES; APPLIANCES; TABLES (DATA);
REGIONAL AMALYSIS; COSTS; POPULATION
(STATISTICS); OWNERS; ATTITUDES; EMERGY
CONSERVATION
AVAILABILITY: NTIS

<474>
Wichols, M.W.
Wational Petroleum Council
ADDRESS: Washington, DC
TITLE: Balancing Requirements for World Oil and
Energy

Chemical Engineering Progress, 70(10), 36-88
1974, October
KEYWORDS: EMERGY DENAND; PETROLEUM; EMERGY
SUPPLIES; IMPORTS; EMERGY RESOURCES;
PRODUCTION; TABLES (DATA); GROWTH;
INTERNATIONAL TRADE; POSSIL FUELS; SYMTHETIC
FUELS; COAL; GOVERNMENT POLICIES;
FORECASTING; EMERGY CONSUMPTION

<665> COFT.
SPONSOR: U.S. Dept. of Emergy, Division of Transportation Emergy Conservation
XEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERRD VEHICLES; EQUIPMENT;
TESTING: TABLES (DATA); BATTERIES; SURVEYS;
PERFORMANCE; ELECTRIC VEHICLE RANGE; EMERGI
COMSUMPTION: BELIABILITY
AVAILABILITY: WITS

<467>
**ational Aeronautics and Space Administration,
Levis Research Center
ADDEES: Cleveland, OH
TITLE: Twelve State-of-the-Art Individual
Electric and Hybrid Vehicle Test Reports.
*Yoluse I

Report Fo. HCP/H1011-03/1, v.p.
1978, July
SPOWSOR: 7.5. Dept. of Energy, Division of
Transportation Energy Conservation
KEYORDS: ELECTRIC VEHICLES: H.ABID
ELECTRIC-POWERED VEHICLES: TESTING: DRIVING
CTCLE: EMERGY CONSUMPTION: PERFORMANCE:
DESIGN: BATTERIES: TABLES (DATA): GRAPHS
(CHARTS): HANDFACTURERS
AVAILABILITY: WYIS

<468>
National Association State Directors of Pupil Transportation Services
TITLE: 1975-76 Statistics on Pupil Transportation

3 P. RETWOODS: STATE AWALTSIS; EXPENDITURES; BUSES (VERICLES); STATISTICS; OWNERSHIP; SCHOOLS; CHILDREN

<469>
Mational Petroleum Council
TITLP: Potential for Energy Conservation in the
United States: 1979-1985

204 p.
1975, August 6
SPOPSOR: U.S. Dept. of Interior
RETWORDS: ENERGY CONSERVATION: INDUSTRIAL SECTOR;
TRANSPORTATION; COMMERCIAL SECTOR:
RESIDENTIAL SECTOR: ELECTRIC UTILITIES;
TABLES (CHAA); FOR ECASTING; HEAT PUMPS;
APPLIANCES; SOLAP ENERGY; AUTOHOBILES; FUEL
CONSUMPTION; EMISSIONS; DESIGN; REGULATIONS;
TECHNOLOGY

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Wational Petroleum News
ADDRESS: 1221 Ave. of the Americas, New York, NY
10020
TITLF: 1978 Wational Petroleum News Pactbook Issue

Hational Petroleum News, 70 (6A), 209 p.
1978, Mid-June
REYMOPDS: AIR TRANSPORTATION; STATE AMALYSIS;
FIMANCIAL DATA: TIRES; BATTERIES;
DIRECTORIES; PUBL OIL; MILEAGE; GAS STATIONS;
AVIATION FUELS; AUTOMOBILES; MARRFTING;
TTMCRS; AUTOMOBILE DRIVERS; CAPITAL COSTS;
ETERGI DEMAND; AIR POLLUTION; ADVERTISING;
GASOLINE; PETROLEUM; UNLEADED AUTOMOTIVE FUELS

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Helson, P.A.; Chilenskas, A.A.; Steunenberg, R.K.
Argonne Mational 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. A*L-8075, 24 p.
1974, Rovember
SPONSOR: U.S. Atomic Emergy Commission
KRYMORDS: BATTERIES; AIR POLLUTION; FORECASTING;
LITHIUR-SULPUR BATTERIES; ELECTRIC VRHICLES;
ECOMONIC ANALYSIS; COMPARATIVE EVALUATIONS
AVAILABLITY: WIS

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Revew, A.J.
Rev Tork State Dept. of Transportation, Planning Division
ADDRESS: State Caspus, 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
KEYNORDS: SURVEYS: HEW YORK; EMEPGY CONSERVATION;
TRANSPORTATION; REGIONAL ANALYSIS; AGE
GROUPS; SEX; EMERGY POLICY; PUBLIC OPINION;
HASS TRANSPORTATION; INCENTIVES;
TRANSPORTATION DISADVANTAGED; QUESTIONNAIRES;
GASOLINE; FUEL CONSUMPTION

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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 Wational Surveys, Code Book and
Processing Guide

Report No. PB-272449, FEA/DF-77/001A, 233 p.
1977, September
KEYWORDS: SURVEYS; RESIDENTIAL SECTOR; EMERGY
CONSUMPTION; COSTS; ELECTRIC POWER DEFAND;
HATURAL GAS; FUEL OIL; SPACE HEATTNG; AIR
CONDITIONING; WATER HEATERS; LIFE STYLE;
AUTOMOBILES; APPLIANCES; TABLES (DATA);
REGIONAL AMALYSIS; COSTS; POPULATION
(STATISTICS); OWNERS; ATTITUDES; EMERGY
CONSERVATION
AVAILABILITY: NTIS

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Wichols, M.W.
Wational Petroleum Council
ADDRESS: Washington, DC
TITLE: Balancing Requirements for World Oil and
Energy

Chemical Engineering Progress, 70(10), 36-88
1974, October
KEYWORDS: EMERGY DEMAND; PETROLEUM; EMERGY
SUPPLIES; IMPORTS; EMERGY RESOURCES;
PRODUCTION; TABLES (DATA); GROWTH;
INTERNATIONAL TRADE; POSSIL FUELS; SYNTHETIC
FUELS; COAL; GOVERNMENT POLICIES;
FORECASTING; EMERGY CONSUMPTION

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Boe, L.R. (ed.)
Warketing Handbooks Inc.
ADDRESS: 31 Wallacks Lane, Stanford, CT
TITLE: Travel Market Yearbook: 1976/1977 06902

Annual publication, 128 p. 1976 RETWORDS: TRAVEL; MARKET; AUTOMOBILES; IMTERNATIONAL AFALTSIS; TOURISM: ADVERTISING; PORECASTING: TRANSPORTATION; TAXES; AIR TRANSPORTATION; RAIL TRANSPORTATION; PASSENGER TRANSPORTATION; BUSES (VEHICLES); SERVICES; TABLES (DATA) AVAILABILITY: \$26.00

Worsen, T.A.
U.S. Postal Service
ADDRESS: Washington, DC
TITLE: Electric-Flywheel Vehicle for Postal
Service Applications

Paper No. 780297, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Hichigan, Pebruary 27 - March 3, 1978, 4 p. RETUONDS: BLECTRIC VEHICLES: HYBRID

ELECTRIC-POWERED VEHICLES; PLIWHEELS; AUTOMOTIVE PLEETS; EMERGY COMSERVATION; UTILIZATION: POSTAL SERVICE
AVAILABLIST: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendele, PA
15095 \$2.50

North Atlantic Treaty Organization, Committee on the Challenges of Hodern Society TITE: Proceedings of the Fourth International Symposius on Automotive Propulsion Systems. Volumes I and II

*eport No. CONF-770430/1, symposium held in washington, DC, April 18-22, 1977, 1034 p. 1978, February SPONSOR: U.S. Dept. of Emergy, Division of Transportation Emergy Conservation RETWORDS: CONFERENCES: PROPULSION: AUTOHOBILES: GAS TURBINES: AUTOHOTIVE PUBLS: FUBLS: DIRSEL FRGINES: STIRLING EMGINES: RANKING CYCLE ENGINES: BLECTRIC VERICLES: RYBRID CYCLE ENGINES: STIRLING EMGINES: RYBRID EXCELLED TRICLED VERICLES: AUTOHOTIVE FRGINES: SPARK IGHITION EMGINES: AUTOHOTIVE RRISSIONS: POWER TRAIN SYSTEMS

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Library
ADDRESS: Evanston, IL 11973
TITLE: Bibliography for Transportation Energy
Conservation

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1976, Hay
SPONSOR: Argonne National Laboratory
RETWORDS: BIBLIOGRAPHIES: TRANSPORTATION:
AUTOHOBILES: HASS TRANSPORTATION; AIRCRAFT;
TRUCKS: RAILROADS: BARGES: SHIPS: HARINE
TRANSPORTATION; RAIL TRANSPORTATION; AIR
TRANSPORTATION; PIPELINE TRANSPORTATION; EMERGY COMSERVATION AVAILABILITY: NTIS

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Obinani, F.C.
Tri-State Regional Planning Commission
ADDRESS: New York, NY
TITLE: Analysis of User Response to the 1975 New York City Transit-Pare Increase (Abridgment)

Paper published in Transportation Research Record 625, 12-14 SPORSOR: U.S. Dept. of Transportation, Federal Highway Administration: U.S. Dept. of Transportation, Urban Hass Transportation Administration: U.S. Dept. of Housing and

Administration; U.S. Dept. of Housing and Urban Development
KEYWORDS: NEW YORK CITY: TRANSPORTATION SYSTEMS;
PASSENGER TRANSPORTATION; COSTS; MOBILITY: SURVEYS; TRADEZORTATION; COSTS; MOBILITY: SURVEYS; TRADEZORTATION; TITUTUDES
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. MW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

Odonoi, A.R.; Kivestu, P. Hassachusetts Institute of Technology, Flight Hassachusetts Institute of Technology, Flight Transportation Laboratory ADDRESS: Cambridge, HA 02139 TITLE: A Handbook for the Estimation of Airside Delays at Hajor Airports (Quick Approximation Hethod)

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1976, June
SPONSOR: National Aeronautics and Space
Administration, Langley Research Center
KEIWORDS: HARDBOOKS; AIRPORTS; DELATS; COHPUTER
PROGRAMS; GRAPHS (CHARTS); OPERATION;
CAPACITY: PERK-HOUR DEMAND; TRAFFIC CONTROL
AVAILABILITY: NTIS

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Odum, E.P.; Bramlett, G.A.; Ike, A.; Champlin,
R.; Zieman, J.C.; Shugart, R.H.
Georgia, University of, Institute of Ecology;
Georgia, University of, Institute of
Community and Area Development
FITLE: Totality Indexes for Evaluating
Environmental Impacts of Highway Alternatives

Report presented at the 58th Annual Reeting of the Transportation Research Board, published in "Transportation Energy Conservation," Transportation Research Record 561, 57-67

RETWORDS: ENVIRONMENTAL IMPACT; HIGHWAYS:
CONSTRUCTION; GEORGIA; PLANNING; STATE
GOVERNMENT; GOVERNMENT POLICIES; PUBLIC OPINION

<482> CORT. AVAILABILITY: Rational Academy of Sciences, Transportation Research Board, 2101 Constitution Ave MW, Washington, DC 20418 \$4.00 for Transportation Research Record 561

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Olsen, P.J.; Westley, G.W.
Oak Ridge Wational Laboratory, Energy Division,
Regional and Orban Studies Section: Oak Ridge
Wational Laboratory, Computer Sciences

Peport No. ORNI-NSF-EP-78, 76 p.
1975, January
SPONSOP: National Science Foundation, RANN Program
RETWORSOP: TROCKS; UNBAN AREAS: REGIONAL ANALYSIS;
TRANSPONTATION; DISTANCE; VELOCITY; HIGHWAYS;
TABLES (DATA); HISTORY: FORECASTING;
INTERSTATE TRANSPORTATION; TRAVEL TIME;
MARKET; GROWTH

Opinion Wesearch Corp.
ADDPESS: North Harrison Street, Princeton, NJ
08580 08540
TITLE: Driving and Energy Conservation.
Highlight Report. Volume XXI

Report No. PP-261162, FEA/D-76/983, 28 p.
1976, March
SPONSOR: Federal Energy Administration, Office of
Energy Conservation and Environment
FRYWORDS: EWEBGY CONSERVATION: COMMUTING:
STPVETS: BIHAVIOR: AUTOHOBILE DRIVERS:
REGIONAL ANALYSIS: ATTITUDES: EMERGY
CONSERVATION: CAMPOLING: ASSILVER: PREF CONSTRPTION: CARPOOLING: GASOLINE: FORL BCONONY AVAILABILITY: BTIS

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Ossenbruggen, P.J.; Fishman, H.M.
New Haspshire, University of, College of
Engineering and Physical Sciences; Penney
(J.C.) Co. Inc., Real Estate Dept.
ADDRESS: UNH, Durhem, FR: JCPC, New York, NY
TITLE: Impact of Transit Line Extension on
Residential Land Use

Paper published in Transportation Research Record 627, 10-13 1977 1977
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration
VHIWORDS: LAND USE: PRSIDENTIAL SECTOR: PAPID
TRANSIT SYSTEMS: TRANSPORTATION: REGULATIONS:
LAND DEVELOPMENT
LYAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. RW, Washington, DC 20418
\$2.70 for Transportation Research Record 627

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Institute of Gas Technology
ADDRESS: Chicago, IL
IIII): Clean Fuel from Coal Is Goal of U-Gas Process

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RETWORDS: COAL: COAL GASIFICATION: ALTERNATE PUBLS: LOW BTU GAS; U-GAS PROCESS; DIAGRAMS; PUBL OIL; NATURAL GAS; TABLES (DATA); ASRES; PILOT PLANTS; DENONSTRATIOF PLANTS

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Paul, P.W.; Regreany, H.J.
Carnegie-Helion University, Mechanical
 Engineering Dept.
ADDRESS: Pittsburgh, PA
FITLE: Applied Studies in Advanced Foiler
 Technology for Fankine Cycle Power Systems

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

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

Report No. COO-1258-1, N.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
KEYMORDS: ALTERRATE FUELS; METHANOL; COMPARATIVE
EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL
ECONOMY; GASOLINE; PERFORMANCE; COMPUTERIZED
SIMULATION; GRAPMS (CHARTS); TABLES (DATA);
TESTING TESTING AVAILABILITY: MTIS

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Penner, P.S.
Illinois, University of, Center for Advanced
Computation
ADDRESS: Urbana, IL 61801
FITLE: The Dollar, Energy and Labor Intensity of
an Electric Commuter Railroad

CAC Technical Memorandum No. 24, 13 p. 1974, September RETWORDS: LABOR INTENSITY; TRANSPORTATION FORDS: LABOR INTERSITY; TRANSPORTATION SYSTEMS; RAIL TRANSPORTATION; EMERGY CONSUMPTION; FINANCIAL DATA; LOAD PACTOR; VEHICLE RILES TRAVELED; PASSENGER TRANSPORTATION; ELECTRIC RAIL SYSTEMS

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Persut, H.; Vuchic, V.R.
Chicago Regional Transportation Authority;
Pennsylvania, University of, Dept. of
Engineering
ADDRESS: CRTA, Chicago, IL; UP, Philadelphia, PA
TITLE: Evaluation of Alternative Station Spacings
for Rapid Transit Lines (Abridgment) (Discussion)

Paper published is Transportation Research Record

SRI Project TCU 5419, 101 p.
1977, August
SPONSOR: Energy Research and Development
Administration
REYBORDS: PEGULATIONS: EMERGY 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: "he Nickel-Zinc Battery: A Viable
Alternative for Vehicle Powering

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Plectric Vehicle Symposium (sponsored by the Electric Vehicle Council and the International Union of Producers and Distributors of Plectrical Energy), held in Dusseldorf, Germany, August 31 - September 2, 1976, 28 p.

1976, September RETWOODS: NICKEL-ZINC BATTERIES; ELECTRIC YEMICLES; RESEARCH: PERFORMANCE; FODELS; 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: 1421 S. Sheridan Road, Tulsa, OK 74101
TITLE: Petroleum/2000

Oil and Gas Journal, 75(35), 75th Anniversary Issue, 538 p.
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REYWORDS: PETROLEUM: FORECASTING: EXPLORATION: PRODUCTION: PIPELINES: NATURAL GAS LIQUIDS: REFINING: PETROLEUM REFINING: PETROCHEMICALS: PROCESSING: PETROLEUM INDUSTRY: ALTERNATE FUELS: GRAPHS (CHARTS): HISTORY: LIQUEFIED HATURAL GAS: INTERNATIONAL RELATIONS
AVAILA BILITY: \$6.00

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Phoebe, C.H.
Gulf Research and Development Co.
ADDRESS: Pittsburgh, PA 15230
**ITLE: Passenger Car Fuel Economy in Short Trip
Operation. Technical Progress Report for

Period May 1, 1977 - November 30, 1977

Report No. CCO/4248-1, 23 p.
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SPONSOP: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: FUEL ECONOMY; GASOLINE; HYDROGEN;
HETHANOL; FUEL INJECTION SYSTEMS; STIRLING
ENGIVES; GAS ENGINES; AUTOHOBILES;
COMPARATIVE EVALUATIONS; DRIVING CYCLE;
HIGHWAY TRANSPORPATION; EMPRGY STORAGE;
VEHICLE TRIPS; TESTING; FUPL CONSUMPTION;
VEHICLE TRIPS; TRAVELED; PHOTOGRAPHS;
AUTOHOBILE OCCUPANCY

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Pigan, J.G.; Agent, K.R.; Mayes, J.G.; Zegeer,
C.Y.
Rentucky Dept. of Transportation, Bureau of
 Highways
TITLE: Optisal Highway Safety Improvement
 Investments by Dynamic Programming

Report presented at the 58th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 585, 49-59 1976 KEYWORDS: HIGHWAYS; SAFETT; PLANNING; MANAGEMENT; INVESTMENTS; OPTIMIZATION AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, pc 20418 \$3.60 for Transportation Research Record 585

<496> Pipeline and Underground Utilities Construction ADDRESS: 3314 Mercer St., Houston, TX 77027 TITLE: Pipeline and Underground Utilities Construction: Annual Contractors Issue 1978

Pipeline and Underground Utilities Construction, 33(7), v.p. 1978, June 15
KEYNORDS: CONSTRUCTION; EQUIPMENT; COMPRESSORS; MANUPACTURERS; UTILITIES; EMERGY TRANSPORT; SERVICES; ENGINERRING; USA; INTERNATIONAL ORGAMIZATIONS; UNDERGROUND PACILITIES; WATEP PIPELIMES; PIPELIMES; EXCAVATION

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Popular Science
ADDRESS: 380 Madison Ave., New York, NY 10017
TITLE: Hotorcamping Handbook 1977

136 p.
1977, Spring
KETWORDS: 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
Engine

Pinal Report, Report No. SAND 77-8299, 108 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KETWORDS: SPARK IGNITION EMGINES: VARIABLE
DISPLACEMENT ENGINES; EXHAUST PECIFCULATION

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SYSTEMS: AUTOMOTIVE EMISSIONS: FUEL ECONOMY:
HEASUREMENT: TESTING: DRIVING CYCLE: UPBAN
TRANSPORTATION: RECHANICS: GRAPHS (CHAPTS):
DIAGRAMS: HYDROCARBONS: NITROGEN OXIDES
AVAILABILITY: GPO, Stock No. 061-000-00108-5

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Peport No. PB-260667, DOT-TSC-OST-76-37, v.p. 1976, August
SPONSTR: T.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Systems Development and Technology, Office of Systems Engineering KEYMORDS: ELECTRIC VEHICLES; BATTERIES; PERFORMANCE; LIFE-CYCLE COST; EMERGY COMSERVATION; GOVERNMENT POLICIES; FUEL CONSUMPTION: SPYLICIENCY; TABLES (DATA); GRAPHS (CHARTS); COMPARATIVE EVALUATIONS; ECOMOMICS; COSTS; VANS; REGULATIONS; INTERNAL COMBUSTION ENGINES; EMERGY CONSUMPTION; MARKET AVAILABILITY; NYIS

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Powell, J.D.; Hubbard, M.
Stanford University, Dept. of Aeronautics and
Astronautics
ADDRESS: Stanford, CA 99305
TITLE: Closed-Loop Control of Internal Combustion
Engine Tabaust Talasions

Report No. PB-239850, 63 p.
1974, Pebruary
SPONSOR: U.S. Dept. of Transportation, Office of
Systems Engineering, University Research
Program
ETWORDS: AUTOMOTIVE PHISSIONS; INTERNAL
COMPUSTION ENGINES; PUBL-AIR RATIO; CONTROL
EDUIPMENT; DESIGN: COMPARATIVE EVALUATIONS
AVAILABILITY: MTIS

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Pozdena, R.J.

Stanford Research Institute
ADDRISS: 333 Reventwood Avenue, Menlo Park, CA
98025

TITLE: Porecasts of Aircraft Activity by
Altitude, Borld Region, and Aircraft Type

Report Fo. FAA-AVP-76-18, Forecasts of Worldwide
Aviation Activity, 132 p.

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SPONSOF: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy
REYWORDS: FORECASTING: AIRCRAFT: ECONOMETRIC
MODELS: REGIONAL ANALYSIS: OPEPATING COSTS:
INTERNATION: TABLES (DATA): GROWTH: DATA
BASES: STATISTICS: CARGO TRANSPORTATION;
HISTORY: MODELS
AVAILABILITY: MIIS

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Pratt (P.H.) Associates Inc.
ADDRESS: 10400 Connecticut Avenue, Kensington, ND
20795

TITLE: The Potential for Transit as an Energy Saving Option

1975, November
SPONSOR: Federal Energy Administration
RETHORDS: PUBLIC TRANSPORTATIOF; URBAN
TRANSPORTATION; EMERGY CONSUMPTION; EMERGY
COMSERVATION; VEHICLE HILES TRAVELED;
AUTOHOSILES; REGIONAL AWALYSIS; PASSENGER
TRANSPORTATION; GRAPHS (CHARTS); TABLES
(DATA); HODELS; EFFICIENCY; BALTIMORE
(MARYLAND); CHICAGO; SAN DIEGO; ALBUQUERQUE;
SOCIO-BCONOHIC FACTORS; HASS TRANSPORTATION;
GOVERNMENT POLICIES; BUSES (VEHICLES); RAIL
TRANSPORTATION; STATE AMALYSIS

<503> 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
RETURDS: REGULATIONS; LEGISLATION; GOVERNMENT
POLICIES; HISTORY; PROPARE; NATURAL GAS; FUEL
OIL; PETROLEUM INDUSTRY; IMPORTS;
ALLOCATIONS; ENERGY SUPPLIES; PETROLEUM;
PRICES; COSTS; ENERGY SHORTAGES; REFINING;
LEGAL ASPECTS; US FEA; CONSUMERS; TABLES
(DATA)

Public Technology Inc.; Urban Consortium for Technology Initiatives, Transportation Task Force
ADDRESS: 1140 Connecticut Avenue NF, Fashington, DC 20036
TITLE: Transportation Heeds Summary

32 P.
1976, September
SPONSOR: U.S. Dept. of Transportation, Urban Hams Transportation Administration; U.S. Dept. of Transportation, Pederal Highway Administration KEYWORDS: TRANSPORTATION; RESEARCH: ASPRALTS;
TRANSPORTATION SISTEMS; 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
ADBRESS: Casbridge, MA 02139
TITLE: Pricing in Urban Transportation: A Survey
of Papirical Evidence on the Elasticity of
Travel Demand

Report Mo. MIT 76-014, 133 p.
1976, July
REYMORDS: URBAN TRANSPORTATION: PRICES; RATES
(COSTS): HODELS; ELASTICITY (ECONOMICS);
GASOLIME: DEMAND (ECONOMICS): ENERGY
COMSERVATION; INCOME: TAPLES (DATA): ENERGY
CONSTRUCTION; THE COME: TAPLES (DATA): ENERGY
CONSTRUCTION; MIT, Center for Transportation
Studies, 77 Massachucetts Avenue, Cambridge,
MA 02139 \$6.00

Report No. DOT-TST-76T-40, 130 p.
1976, September
SPONSOR: U.S. Dept. of Transportation, Office of
University Research
KETWORDS: FORECASTING; BAIL TRANSPORTATION;
RAILROADS; HIDDESTERN STATES; CARGO
TRANSPORTATION; COSTS; TABLES (DATA); HAPS;
COMMODITIES; INPUT-OUTPUT ANALYSIS; REGIONAL
ARALYSIS; HISTORY
AVAILABILITY: NTIS

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Purdue University, Institute for
Interdisciplinary Engineering Studies
ADDRESS: West Lafayette, IW
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; ENERGY DENAND; COSTS; PERFORMANCE; TABLES (DATA): ELECTRIC VEHICLE RANGE; TRANSPORTATION; PETROLEUM; ENERGY COMSERVATION; TECHNOLOGY ASSESSMENT; INSTITUTIONAL PACTORS; SAPETY
AVAILABILITY: HTIS

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Pushkarev, R.S.; Zupan, J.H.
Regional Plan Association
ADDRESS: 235 East 45 Street, New York 10017
TITLE: Power for the RTA: An Bassination of
Puture Ridership, Service, and Electric Power
Regulrements for Retropolitan Transportation
Authority Facilities

RPA Bulletin 126, 90 p.
1977, June
SPONSOR: New York State Power Authority
NETWORDS: HEW YORK CITY; WAIL TRANSPORTATION;
ELECTRIC POWER DERAND; EMPLOTRENT; CONNUTERS;
PUBLIC TRANSPORTATION; URBAN TRANSPORTATION;
AUTOMOBILES; REGIONAL ANALYSIS; PEAK-HOUR
DEMAND; ELECTRIC VEHTCLES; GRAPHS (CHARTS);
HAPID TRANSIT SYSTEMS; TABLES (DATA);
PLAWRING; BOOTPHENT; SUBWAYS; AIR
CONDITIONING; HEGEMERATIVE BRAKING; HASS
TRANSPORTATION

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Rabe, P.T.
Environmental Impact Center Inc.
Environmental Impact Center Inc.
ADDRESS: 55 Chapel Street, Newton, NA 02158
FITLE: Uncertainties in Estimates of Pleet
Average Fael 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 Center

RETWORDS: AUTOHOTIVE FLEETS; FUEL ECONOMY; FUEL CONSURPTION; TABLES (DATA); STRATIFICATION; ESTIMATES; STATISTICAL AWALYSIS; TESTING AVAILABILITY: WITS

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Rabe, F.T.
Environmental Impact Center Inc.
ADDRESS: 55 Chapel Street, Newton, HA 02158
TITLE: Study Design for a Method of Projecting
Vehicle Hiles 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
Engineering
KEYHORDS: VEHICLE MILES TRAVELED; FORECASTING:
TRAVEL; AUTOHOBILES; MODELS; RESEARCH; DATA
ACQUISITION; ESTINATES; COSTS
AVAILABILITY: NTIS

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Rabe, F.T.
Bavironmental Impact Center Inc.
ADDRESS: 55 Chapel Street, Newton, HA 02158
TITLE: Dynamic Hodels 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
Engineering
REYBORDS: *ODELS; SALES; COMPUTERIZED SIMULATION;
GEOMORICS); TRANSPORTATION; AUTOMOBILES;
PRICES; SIZE; OWNERS
AVAILABILITY: WITS

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Raschbichler, H.G.
Scittan
ADDRESS: Box 5456, Santa Barbara, Cl 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 Ameronautics and Space
Administration
REFFORDS: BLECTRIC VEHICLES; PLASTICS; ECONOMIC
ANALYSIS: PRODUCTION; DESIGN
AVAILABILITY: NYIS

<513> Rechel, R. TITLE: Transportation Policies and Energy Conservation

An Issue Report, 71 p.
1976
REIWORDS: TRANSPORTATION; EMERGY CONSERVATION;
GOVERNMENT POLICIES; TRANSPORTATION MODE
CHOICE; PUBL COMSUMPTION; REGULATIONS;
RIGHWAY TRANSPORTATION; SERVICES; CARGO

<513> COPT. TRANSPORTATION; PUBLIC TRANSPORTATION; BAIL TRANSPORTATION; URBAN TRANSPORTATION; AIR TRANSPORTATION; WATER TRANSPORTATION; PIPTLINE TRANSPORTATION; ECONOMIC IMPACT; RYPENDITURES

AVAILABILITY: The Conservation Foundation, 1717
Rassachusetts Avenue, H.W., Washington, DC
20036

<514>
Recker, W.W.; Golob, T.P.
California, University of, Institute for
Transportation Studies; General Motors Corp.,
Research Laboratories, Transportation and
Urban Analysis Dept.
ADDRESS: CU, Irvine, CA; GHCRL, Warren, HI &8090
FITLE: A Mon-Compensatory Model of Transportation
Behavior Based on Sequential Consideration of
Attributes <518>

Peport No. GHR-2621, 23 p.
1978, January 10
KEYMORDS: TRANSPORTATION; HODELS; BEHAVIOR;
DECISIONS; ATTITUDES; SHOPPING TRIPS; URBAN
TRANSPORTATION; VEHICLES

(515> Peccreation Vehicle Industry Association ADDPESS: Box 204, 14650 Lee Rd., Chantilly, VA 22021
TITLE: RV Financial Facts

Quarterly publication, approximately 4 p. RETPORDS: FINANCIAL DATA; RECREATION VEHICLES; PRODUCTION; SALES; INDUSTRIES; INFORMATION

<516> Color Pecreation Vehicle Industry Association ADDRESS: P.O. Box 204, 18650 Lee Road, Chantilly, VA 22021

TITLE: Pecreation Vehicle Pigures, Pacts and Forecasts: 1961 - 1981

Paper presented at seminar held at the Essex House Hotel, New York, NY, on March 31, 1977, 11 p. 1977 1977
SPONSOR: Mitchell, Mutchins Inc.
RFIWORDS: PECREATION VEHICLES: FORECASTING:
TRAILERS: CAMPERS: MOTOR HOMES: TABLES
(DATA): SALES

Recreation Vehicle Industry Association,
Marketing and Public Relations Departments
ADDRESS: 14650 Lee Road, Chantilly, Va 22020
TITLE: Pacts and Trends 1977: 5th Annual
Bistorical Review of Production and Shipments
of the Recreation Vehicle Industry

Annual publication, 9 p.

RETWORDS: RECREATION; PORECASTING; RECREATION THRICLES; INDUSTRIES; PRICES; PRODUCTION; SALES; MARKET; TABLES (DATA); GRAPHS (CHAPTS); BRERGT DEMAND; MOTOR HORES; TRAILERS; CAMPERS; TRUCKS; REGIONAL ANALYSIS

<518> Color Reed, H. h.; Roos, H.; Wolfe, H.; Digregorio, R. U.S. Dept. of Transportation, Transportation Systems Center ADDRESS: Kendall Square, Cambridge, HA 02142 TITLE: A Study of the Costs and Benefits Associated with AVN

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1977, February
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration, Office of
Technology Development and Deployment
KEYWORDS: TRANSPORTATION; TECHNOLOGY; COSTS;
MAINTENANCE; OPERATING COSTS; BUSES
(VEHICLES); TAXICABS; BEREFIT COST AWALTSIS;
TABLES (DATA); GRAPHS (CHARTS); EMERGY
CONSERVATION; MONITORING; AUTOMATIC VEHICLE
MONITORING; URBAN TRANSPORTATION; AUTOMOTIVE
FLEETS AVAILABILITY: MTIS

<519> Regional Plan Association ADDRESS: 235 East 45 Street, New York, NY 10017 TITLE: Where Transit Works: Urban Densities for

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1976, August
SPONSOR: Tri-State Regional Planning Commission; U.S. Dept. of Transportation, Urban Hass Transportation Administration: Ford Transportation Administration; Ford Foundation; Rockedeller Foundation REYWORDS: URBAN AREAS; PUBLIC TRANSPORTATION; COSTS; BUSES (VEHICLES); RAPID TRANSIT SISTEMS; COMMUTERS; COMMUTETY DEVELOPMENT; LAND USE; PROTOGRAPHS; GRAPHS (CHARTS)

<520> Requeiro, J.F.
John Deere Product Engineering Center
ADDRESS: Holine, 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., Hilwaukee Section
KETWORDS: FARM EQUIPMENT: TRACTORS; AGRICULTURE;
DIESEL ENGINES; FUEL CONSUMPTION; DESIGN; PRODUCTION: GRAPHS (CHARTS)

AVAILABILITI: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 for SaE SP-411

<521> Reichman, S. Hebrew University
ADDRESS: Jerusales, Israel
TITLE: Conceptual Problems in Evaluation of
Travel Time

Paper published in Transportation Research Record 587, 24-29 1976 SPONSOR: National Academy of Sciences, SPONSOR: Mational Academy of Sciences,
Transportation Research Board
KETWORDS: TRAVEL TIME: ECONOMIC AWALYSIS;
CONSUMERS: BEHAVIOR; RESEARCH
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20018
\$2.40 for Transportation Research Record 587

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Reichman, S.; Stopher, P.R.
Rebrew University: Cornell University
ADDRESS: RM, Jerusalem, Israel: CU, Ithaca, HY
TITLE: Applications of Value of Travel Time to
Travel Demand Estimation

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SPONSO R: Mational Academy of Sciences,
Transportation Research Board
KEYWORDS: TRAVEL TIME; URBAN TRANSPORTATION;
MODELS; WRHICLE TRIPS; COSTS; INTERCITY TRANSPORTATION AVAILABILITY: Bational Academy of Sciences, Transportation Research Board, 2101 Constitution Avenue. NF, Washington, DC 20418 \$2.40 for Transportation Research Record 587

Paper published in Transportation Research Record 587, 6-11

1976

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Reilly, J.
Capital District Transportation Authority
ADDRESS: Albany, NY
TITLE: Transit Costs During Peak and Off-Peak

Paper presented at the 1977 Annual Heeting of the Transportation Pesearch Board, held in Washington, DC, January 1977

1977, January
KEYWORDS: COSTS; PATES (COSTS); DEHAND
(ECOMONICS); HASS TRANSPORTATION

Reilly, J.J.; Wiswall, R.H.; Waide, C.H. Brookhaven Mational Laboratory, Dept. of Applied Science ADDRESS: Tpton, 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;
ANTONO BLIES; HAGRESION HYDRIDES; ALUBINUM
HYDRIDES; DESIGN; STABILITY; COMPARATIVE
EVALUATIONS: TABLES (DATA); DIAGRAMS;
ALTERNATE FUELS
AVAILABILITY: NETS AVAILABILITY: MTIS

(525) Reister, D.S.
Lastitute for Energy Analysis
ADDRESS: Oak Ridge, TW 37830
TITLE: The Total Energy Cost of Freight Transport

Report No. ORAU/IEA(M)-77-7, v.p.
1977, Pebruary
SPONSOR: Energy Research and Development
Administration
RETWORDS: COSTS; EMERGY COMSUMPTION; CARGO
TRANSPORTATION; MET EMERGY; RAIL
TRANSPORTATION; WATER TRANSPORTATION; TRUCKS;
IMTERCITY TRANSPORTATION; AIR TRANSPORTATION;
INPUT-OUTPUT ANALYSIS; COMPARATIVE EVALUATIONS

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Reprint from Survey of Current Business, February 1978, 17-20
1978, Pebruary
KEYWORDS: HIGRATION; EMPLOYMENT; REGIONAL AMALYSIS: SOCIO-ECOMOMIC PACTORS; EARBINGS; TABLES (DATA); LABOR MIGRATION; URBAN AREAS; STATE AMALYSIS; BURAL AREAS

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Rice, P.L.
Oak Ridge Mational Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TM 37830
TITLE: Energy Conditions in the South

Report No. ORNL/TH-5568, 338 p.
1976, December
SPONSOP: Energy Research and Development
Administration
XEYWORDS: EMERGY DEMAND; EMERGY SUPPLIES; EMERGY
RESOURCES: TABLES (DATA); HAPS; NATURAL GAS;
PETROLEUR; COAL; HYDROELECTRIC POWER; MUCLEAR
POWER; PETROLEUN PRODUCTS; ALABAMA; ARKAMSAS;
FLORIDA; GEORGIA; KEMTUCKY; LOUISIAWA;
HISSISSIPPI; MORTH CAROLINA; OKLAROHA; SOUTH
CAROLINA; TENNESSEE; TEXAS; VIRGINIA; WEST
VIRGIMIA; SOUTHERN STATES; REGIONAL AWALYSIS;
STATE AMALYSIS

STATE ANALYSIS AVAILABILITY: NTIS

(528> <528> Rice, P.L. Oak Ridge Mational laboratory, Energy Division, Economic Analysis Section ADDRESS: Oak Ridge, TM 37830 TITLE: 1975 Energy Conditions in the South

Report No. ORNL/TH-6190, 254 p.
1978, March
SPONSOR: U.S. Dept. of Energy
KETWORDS: SOUTHERN STATES; STATE ANALYSIS; EMERGY
SUPPLIES; NATURAL GAS; PETROLEUR; COAL;
EMERGY RESERVES; EMERGY CONSUMPTION; REGIONAL
ANALYSIS; HIDROELECTRIC POWER; RESIDENTIAL ANALYSIS; HIDROELECTRIC POWER; RESIDENTIAL SECTOR; CONHERCIAL SECTOF; INDUSTRIAL SECTOR; TRANSPORTATION; ELECTRIC UTILITIES; PRODUCTION; TABLES (DATA); EMERGY DEHAND; ELECTRIC POWER DEHAND
AVAILABILITY: MTIS

<529> Rice, R.G.
Toronto, University of, Dept. of Civil Engineering
ADDRESS: Toronto, Camada
TITLE: Evaluation of Road and Transit System
Requirements for Alternative Urban Forms

Paper prepared for presentation at the Annual Heeting of the Transportation Research Board, 29 p. 1978, January REYWORDS: ORBAN AREAS; LAND USE; HODELS; TRANSPORTATION; PLANNING; TRAVEL; VEHICLE

C3307
Riddell, F.R.; Oliver, R.C.; Reichenbach, R.E.
Institute for Defense Analyses, Science and
Technology Division
ADDRESS: 400 Aray-Mary Drive, Arlington, VA 22202
fITLE: DOD Energy R & D. Part II: Military

<530> CONT. Fuel Options -- Performance and R 5 D Implications

Peport *o. AD/A 042272, IDA Paper P-1116, 108 p. 1977, March

1977, March
SPONSOF: U.S. Dept. of Defense, Defense Advanced
Research Projects Agency; U.S. Dept. of
Defense, Office of the Director of Defense
Pessearch and Engineering
RETPOPDS: WILLTARY; FUELS; CONSUMPTION; EMERGY
HANAGEMENT; FORECASTING; PETROLEUM; SYNTHETIC
FUELS; AVIATION FUELS; TABLES (DATA); OIL
SHALE; HYDROCARBONS; ALTERNATE FUELS;
RESPARCH; DEVELOPMENT; ENGINES; TRANSPORTATION
AVAILABILITY: HTIS

Rieber, M.; Soo, S.L.; King, P.; King, Y.T.; teung, T.; Wu, H.; Wu, J. Illinois, University of, Center for Advanced Computation

Computation
ADDRESS: Urbana, IL 61801
TITLE: Comparative Coal Transportation Costs:
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, 388 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 p. for Vo

1977, August
SPONSOR: U.S. Dept. of Interior, Bureau of Mines;
Federal Energy Administration
ETWORDS: COAL: TRANSPORTATION; COSTS; ECONOMICS;
TRUCKS; RALL TRANSPORTATION; SLURRIES;
BARGES: PIPELINE TRANSPORTATION; PHEUMATIC DANGES; FIFELINE TRANSPORTATION; PROGNATIC TRANSPORT; CONVETORS; COMPARATIVE EVALUATIONS; HODELS; CAPITAL COSTS; OPERATING COSTS; TARLES (DATA); GRAPHS (CHARTS); WATERWAT TRANSPORTATION; REGIONAL ANALISIS; E"GIMEERING; CARGO TRANSPORTATION AVAILABILITY: NTIS

<532> Rinde, J.A.: Chiao, T.T.: Stone, R.G.
Lawrence Liversore Laboratory
ADDRESS: University of California, Liversore, CA
94550 TITLY: Composite Fiber Plywheel 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
SPOMSOR: Energy Research and Development
Affinistration

RTHANDSTRACTION
RETHORDS: FLUMBELS; EMERGY STORAGE: COMPOSITE
MATERIALS; PIRERS; DESIGN; DEVELOPMENT;
UTILIZATION; HIRRID ELECTRIC-POWERED
VEHICLES; LAWPENCE LIVERHORE LABORATORY;
PHYSICAL PROPERTIES; RESEARCH PROGRAMS;
TABLES (DATA): GRAPHS (CHARTS)

Ring, S.L.; Prewer, K.A.; Butler, D.L.

Iowa State "niversity, Civil Engineering and
Engineering Research Institute

ADDRESS: Ames, IA

TITLE: Fraluation of Interaction Between Rural
Regional Transportation and Energy

Availability

Report presented at the 54th Annual Heeting of the Transportation Research Board, published in "Transportation Energy Conservation and Deaand," Transportation Research Record 561,

1976
SPONSOR: U.S. Dept. of Transportation, Office of University Research
KEYWORDS: RURAL AREAS: BURAL TRANSPORTATION; RAIL
TRANSPORTATION; POOD; TRANSPORTATION; RAIL
SOCIO-ECONOMIC FACTORS; RAILBOADS; MAPS;
IOWA; ELECTRIC POWER GENERATION; AGRICULTURE;
BEGIOWAL AWALYSIS; LIFE STYLE; STATE
GOVERNMENT; GOVERNMENT POLICES
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 Hotors 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, Pebruary 28-March 4, 1977, 20 p.

SPONSOR: Society of Automotive Engineers
RETWORDS: FUEL ECONOMY; COMPUTER PROGRAMS;
AUTOMOTIVE EMISSIONS; TESTING; ENGINES;
CATALYTIC CONVERTERS; TABLES (DATA);
COMPARATIVE EVALUATIONS; PERFORMANCE; GRAPHS
[CHAPTS]; OPTIMIZATION; AUTOMOTIVE EMISSION CONTPOL

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

<535> Roan, V.P.
Plorida, University of, Dept. of Mechanical
Engineering
ADDRESS: Gainesville, PL
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

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
REYWORDS: ELECTRIC VEHICLES; URBAN
TRANSPORTATION; BUSES (VEHICLES); HYBRID
ELECTRIC-POWERED VEHICLES; DESIGN;
COMPUTERIZED SIMULATION; DRAG; DISSEL
ENGINES; TESTING; ROAD TESTS; AERODYMANICS;
GRAPHS (CHARTS)
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<536> Roberts, P.O. Rassachusetts Institute of Technology, Center for Transportation Studies ADDRESS: Cambridge, NA 02139 <536> <536> COBT. TITLE: Factors Influencing the Demand for Goods Novement

CTS Report No. 75-16, Working Paper No. 1, 3% p.
1975, September
SPONSOR: U.S. Dept. of Transportation, Office of
University Research
KEYWORDS: CARGO TRANSPORTATION; HARKET;
DISTRIBUTION; COSTS; CONSUMERS; DEHAND
(ECONOMICS); PURCHASING; GRAPES (CHARTS);
INVESTORIES; TABLES (DATA); ECONOMIC
ANALYSIS; HOURLS; SYSTEMS ANALYSIS;
CORMODITIES

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Roberts, P.O.
Rassachusetts Institute of Technology, Center for Transportation Studies
ADDRESS: Cambridge, NA 02139
TITLE: Forecasting Freight Plows Using a Disaggregate Freight Demand Hodel

CTS Peport Wo. 76-1, 26 p.
1976, January
SPONSOR: Pedecal Energy Administration
RETWORDS: FORECASTING: CARGO TRANSPORTATION;
MATREMATICAL HODELS: COSTS: TARIFFS:
COMPODITIES: DEHAND (ECONOMICS); PLANWING;
PATES (COSTS)

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Roberts, P.O.
Nassachusetts Institute of Technology, Center for Transportation Studies
ADDRESS: Cambridge, NA 02139
TITLE: Developing Freight Origin-Destination Data for Tae in Freight Planning

Report No. CTS 76-3, 18 p.
1976, February
SPOWSOR: U.S. Dept. of Transportation,
Transportation Systems Center
KEYWORDS: CAPGO TRANSPORTATION; SHIPMENTS; DATA
ACQUISITION; COMMODITIES; SURVEYS; HODELS;
DATA COMPILATION; COSTS; TABLES (DATA);
INFORMATION; PLANNING; DEMAND (ECONOMICS);
DISTANCE

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Roberts, P.O.; Terziev, M.N.; Kneafsey, J.T.;
Wilson, L.B.; Sauvelson, R.D.; Chiang, U.S.;
Deephouse, C.V.
Hassachusetts Institute of Technology, Center for
Transportation Studies
ADDRSS: Cambridge, HA 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, 17s p.
1976, November
SPONSOR: Federal Energy Administration, Office of
Transportation Policy Research
KETWORDS: INTERCITY TRANSPORTATION: CARGO
TRANSPORTATION: COSTS; MODELS: FORECASTING:
TRUCKS; RAIL TRANSPORTATION: TRAVEL TIME:
DELATS; TARIFYS; PUBL CONSUMPTION: MATERWAY
TRANSPORTATION: SHIPHENTS: FUBL RCONONT:
TOWNAGE: TABLES (DATA): COMMODITIES

U.S. Dept. of Commerce, Mational Bureau of Standards, Institute of Basic Standards ADDRESS: Washington, DC 20234 TITLE: Evaluation of Autosotive Fuel Flowseters

Report No. PB-268502, NBS TH 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
KEYMORDS: AUTOHOBILES; FUEL ECONOMY; HEASURING
INSTRUMENTS; FUEL CONSUMPTION; TESTING;
DIAGRAMS
AVALLABILITY: HTIS; also available from GPO,
Stock No. 003-003-01799-0

Report No. PB-250884, RMC-UR-286, 321 p.
1975, December
SPONSOR: Council on Environmental Quality;
Federal Energy Administration
KEYWORDS: ENERGY CONSERVATION; PASSENGER
TRAMSPORTATION; INTERCITY TRAMSPORTATION;
MODELS; FORECASTING; SOCIO-ECONOMIC FACTORS;
TRAVEL; NOISE (SOUND); AIR POLLUTION;
ACCIDENTS; LAND USE; OPERATING COSTS; SPEED
LIMITS; GASOLINE; TAXES

Report No. PB-250883, RMC Report UR-286, 30 p.
1975, December
SPONSOR: Council on Environmental Quality:
Federal Energy Administration
RETWORDS: INTERCITI TRANSPORTATION; GOVERNMENT
POLICIES; NODELS; FUEL ECONOMI; TAXES; ENERGY
CONSUMPTION; ECONOMICS; STATISTICS; VEHICLE
MILES TRAVELED; FORECASTING; TRANSPORTATION
HODE CHOICE
AVAILABILITY: NTIS

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Rockwell International, Space Division
ADDRESS: Canoga Park, CA
TITLE: Economic and Technical Peasibility Study
for Energy Storage Plywheels

Report No. ERDA 76-65, 436 p.
1975, December
SPONSOR: Energy Research and Development
Administration, Division of Conservation
Research and Technology
RETWORDS: FERSIBILIT: FLIWHEELS: EMERGY STORAGE:
TABLES (DATA): TECHNOLOGY: FORECASTING:
ECOHOMICS: UTILIZATION: TRANSPORTATION:
BLECTRIC UTILITIES: COMPERCIAL SECTON:
INDUSTRIAL SECTOR: RESEARCH: DESIGN:
RESIDENTIAL SECTOR: RIBERD BLECTRIC-POWERED
VEHICLES: ELECTRIC VEHICLES: INSTITUTIONAL
PACTORS: SAPETY: GRAPHS (CHARTS): DIAGRAMS

<540> Robertson, B.; Bausgarten, G.P.

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Roelke, R.J.; McLallin, K.L.
**ational Aeronautics and Space Administration,
 Lewis Research Center
ADDRESS: Cleveland, OR 44135
Tytus: Cold-air Performance of the
 Compressor-Drive Turbine of the Department of
 Phergy Baseline Automobile Gas-Turbine Engine

Report No. DOE/NASA/1011-78/25, MASA *H-78894, E-9480, 22 p. E-9480, 22 p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KETWORDS: GAS TURBINE ENGINES: PERFORMANCE: US
DOE: AUTOHOBILES: ABROUNDABICS: VELOCITY:
TESTING: ENGINES: EFFICIENCY: EQUIPMENT:
HTASUREMENT: PRESSURE REASUREMENT: GRAPHS
(CHAPTS): DIAGRAMS: TEMPERATURE: TORQUE
ATAILAPILITY: NTIS

<545> COSO D.A.; Hachman, J.F.; Duffy, T.E. International Harvester Co., Solar Division ADDRESS: 2200 Pacific Highway, San Diego, CA 92138

TITLE: Rutomotive 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
KETWORDS: RYDROGEN; ANTOMOBILES; MAGNESIUM
HYDPIDES; ENERGY STORAGE; ALTERNATE FUELS;
MAGNESIUM ALLOYS: RESEARCH; HYDRIDES;
REFUELING; TABLES (DATA); GRAPHS (CHARTS);
HYDPOGEN STORAGE
AVAILABILITY: HTIS

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Pomenberg, R.; Bufferd, A.; Coonley, P.;
Hamilton, W.; Kaimer, R.; Raber, P.T.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendell Square, Cambridge, NA 02142
PITLE: Institutional Pactors in Transportation
Systems and Their Potential for Bias Toward
Vehicles of Particular Characteristics Peport NO. NCP/H1043-01, CONS/1043-1, 428 p.
1978, Pebruary
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REYSORDS: HYSELD ELECTRIC-POWERED VEHICLES;
INSTITUTIONAL FACTORS; LEGISLATION; TAXES;
REGULATIONS: ELECTRIC VEHICLES; TRAPPIC
CONTROL; GOVERNHENT POLICIES; AUTOHORIVE
INDUSTRY; ELECTRIC POWER; BATTERY CHARGING;
VEHICLE PARKING; TABLES (DATA); REGIONAL
ARALYSIS; PRICES; RATES (COSTS); PETROLEUM;
URRAW AREAS
AVAILABILITY; STIS

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<547> Rosenqvist, J.K.G.; Gunnesson, S.G.; Lundholm, S.G.R. RB United Stirling (Sweden) AB 6 Co. ADDRESS: Sweden
TITLE: The Development of a 150 km (200 HP)
Stirling Engine for Redium 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, Hichigan, Pebruary 28-March 4, 1977, 12 p. 1977 1977
SPONSOR: Society of Automotive Engineers
KETWORDS: STIRLING ENGINES; HEAT EXCHANGERS;
PERFORMANCE: COSTS; DIESEL ENGINES; GRAPHS
(CHARTS); COMPARATIVE EVALUATIONS; PUEL
COMSUMPTION; FUEL ECONOMY; TRUCKS; DIAGRAMS; COMPOUNTION: FUEL ECONOMY: TRUCKS: DIAGRAMS: COMPROL EQUIPMENT AVAILABILITY: Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Farrendale, PA 15096

(SBR) Rail Transit Vehicles in Urban Hass Transit Systems

Paper published in Transportation Research Record 627, 21-28 SPONSOR: U.S. Dept. of Transportation, Urban Hass Transportation Administration RETWORDS: HAINTENANCE; COST ANALYSIS; SCHEDULING; RETUDENS: BAISTENARCE; COST ANALYSYS; SCHEDULING RAIL TRANSPORTATION; RODELS; PLANNING AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2001 Constitution Ave. Mt, Washington, DC 20418 \$2.20 for Transportation Research Record 627

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ADDRESS: Chula Vista, CA 92010
FITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle Report No. DOB/NASA/0592-78/1, NASA CR-135340, RHR-78-035, 222 p. BRR-78-U3D, case F.

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

TRANS. ELECTRIC VEHICLES; DESIGN; POWER TRAIN RESEARCH CONTOR

KETTORDS: ELECTRIC VEHICLES; DESIGN; POWER TRAIN

SISTEMS; PERFORMANCE; ELECTRIC VEHICLE PANGE;

DRIVING CICLE; EFFICIENCY; AUTOHOTIVE

ENGINEERING; TESTING; SINDIATION

AVAILABILITY; WITS

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Rowlett, B.H.; Hurry, R.
Airesearch Hanufacturing Co.
ADDRESS: Torrance, CA
TITLE: Wear-Term Electric Vehicle Program: Phase
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Report No. SAF/1213-1, 259 p.
1977, August

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REMORDS: Electric VERICLES: DESIGN: PERFORMANCE:
SAFETY: BATTERIES: TABLES (DATA); GRAPHS
(CHARTS): DIAGRAMS: REPERF STORMER:
ECOMONICS: COSTS: DEVELOPMENT: RODELS:
SIMULATION: LIPS-CYCLE COST: TRANSPORTATION
AVAILABILITY: ETIS

(551) Nechanical Technology Inc. ADDRESS: Latham, MT 12110 ADDRESS: Latham, ST 12/10
TITLE: Hydrodynamic Air Lubricated Compliant
Surface Bearing for an Automotive Gas Turbine
Engine. I - Journal Bearing Performance

Report No. CONS/9427-1, MASA-CR-135368, 148 p. Report No. CORS/942/-1, NADA-CR-135500, ...
1976, April
SPOMSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration
KEYWORDS: TESTING; AUTOMOTIVE ENGINES; GAS
TREBINE ENGINES; BEARINGS; DESIGN;
PERFORMANCE; TEMPERATURE
AVAILABILITY: HTIS

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Sacco, J.F.: Hajj, H.H.
South Carolina, University of, Dept. of
 Government and International Studies: South
 Carolina, University of, Traffic and
 Transportation Center
ADDRESS: Columbia, SC 29208
ITILE: 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,

1976
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration
KEYWORDS: EMERGY SHORTAGES; TRAVEL; ATTITUDES;
AUTOMOBILES; SOUTH CAROLINA; PUBLIC
TRAMSPORTATION; GASOLIME; AVAILABILITY;
SERVICES; EMERGY COMSERVATION; SURVEYS;
VELOCITY; BEHAVIOR; PRICES; TABLES (DATA);
BUSES (VEHICLES); CARPOOLING
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Roard, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

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Paper No. 780088, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, Pebruary 27 - March 3, 1978, 12 p.

REYWORDS: UNITED KINGDOM; ELECTRIC VEHICLES; EATTERIES; DESIGN; VANS; LEAD-ACID BATTERIES; HESEARCR; PROTOGRAPHS AVAILABILITY: Society of Automotive Engineers Inc., 400 Common wealth Drive, Varrendale, PA 15096 \$2.50

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Sanders, D.B.; Reynen, T.A.; Bhatt, K.
De Leuw, Cather and Co.; Urban Institute
ADDRESS: Washington, DC
TITLE: Characteristics of Urban Transportation
Systems: A Handbook for Transportation Systems: Planners

V.P. 1978, May SPOWSOR: U.S. Dept. of Transportation, Urban Hass Transportation Administration: U.S. Dept. of

Transportation, Pederal Highway Administration REYWORDS: URBAN TRANSPORTATION: PLANNING: RAFL TRANSPORTATION: RUSES (VEHICLES): RAPID TRANSIT SYSTEMS: HIGHWAY TRANSPORTATION: VELOCITY; CAPACITY; OPERATING COSTS; EMERGY COMSSHPTION; EMISSIONS; ACCIDENTS; REGIONAL AWALYSIS; COMPARATIVE EVALUATIONS; GRAPHS (CHARTS); TABLES (DATA)

(5555) Brecutive Office of the President, Office of Hanagement and Budget ADDRESS: Washington, DC TITLE: Predicting Transporter's Choice of Rode

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TRANSPORTATION; BARGES; COSTS; COMPUTERIZED
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Report No. COM-75-1054, MA-RD-920-75021, v.p. 1975, April 12 SPONSOR: U.S. Dept. of Commerce, Haritime Administration Administration
KEYWORDS: FORECASTING: WATER TRANSPORTATION;
FUELS; PRICES; AVAILABILITY; MARINE
TRANSPORTATION; RESIDUAL DILS; TANKER SHIPS;
CARGO TRANSPORTATION; FUEL CONSUMPTION;
ALTERNATE FUELS; PETROLEUR; DEMAND
(BCONOMICS); SUPPLY (ECONOMICS); ENERGY
DEMAND; EMERGY SUPPLIES
AVAILABILITY: HTIS

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Schimpeler, C.C.; Corradino, J.C.; Jarvis, J.J.;
 Unger, V.F.; 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

KETWORDS: HIGHWAYS; PLANNING; PORECASTING; TRAFFIC: MODELS; TABLES (DATA); SCREDULING; CONSTRUCTION

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AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.60 for Transportation Research Record 585

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SPORSCR: U.S. Dept. of Transportation, Office of
the Secretary; U.S. Dept. of Transportation,
Transportation Systems Center
KEWOFDS: ECONOMETRIC MODELS; MARKET;
AUTOMOBILES; DERAND (ECONOMICS); FORECASTING;
SALES; WENICLE REGISTRATIONS: FUBL ECONOMY;
SIMULATION; GOVERNMENT POLICIES; COSTS; STOCKS
AVAILABILITY: HTIS

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Schink, G.R.; Loxley, C.J.
Wherton SPA Inc.
ADDPESS: One University City, \$025 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.F.A.
Automobile Demand Model

Folume II of 3 volumes, v.p.

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the Secretary: U.S. Dept. of Transportation,
Transportation Systems Center

RETWORDS: AUTOHODILES; MARKET; DERAND
(ZCONOHICS): SIMULATION; ECONOMETRIC MODELS;
FORECASTING; GASOLIME; PRICES: TABLES (DATA);
INCOME; TAKES: GOVERNMENT POLICIES: OPEC

AVAILABILITY: HTIS

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ADDRESS: One University City, 4025 Chestnut
Street, Philadelphia, PA 19104
TITLE: An Analysis of the Automobile Market:
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Appendices to the Wharton E.F.A. Automobile
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FORFCASTING; DEMAND (ECONOMICS); TABLES (DATA)
AVAILABILITY: NTIS

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Schmift, F.W.; Wagner, C.E.
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ADDRESS: Detroit, HI
TITLE: Baseline Gas Turbine Development Program.
Eighteenth Quarterly Progress Report

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KETWORDS: GAS TURBINE ENGINES; DESIGN;
EFFICIENCY; FUEL ECONOMY; GRAPHS (CHARTS);
TABLES (DATA); DIAGRAMS; VEHICLES;
PERFORMANCE; DEVELOPMENT
AVAILAPILITY; NTIS

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Schwartz, H.J.
Hational 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
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COMPUTERIZED SIMULATION; TRAVEL; AUTOMOBILES;
BATTERIES; UTILIZATION
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Mational Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: New Batteries and Their Impact on Electric
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SPONSOR: Energy Research and Development
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Report No. N76-21701, NASA TH X-71916, Technical Paper presented at Twenty-Seventh Power Sources Symposium, Atlantic City, New Jersey, June 21-24, 1976, 7 p.

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KEYMORDS: BATTERIES; ELECTRIC VEHICLES; MARKET; PETROLEON; PUEL CONSUMPTION; COMMERCIALIZATION AVAILABILITY; NTIS

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Schwartz, M.L.
Hiami University
ADDRESS: Hiami, OH
TITLE: Marketing Approach Using Product Diffusion
Knowledge to Measure Consumer Transit
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Report No. SAN/1295-1, 304 p.
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SPONSOR: Fnergy Research and Development
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KEYWORDS: ELECTRIC VEHICLES; DESIGN; PATTERIES; PERFORMANCE: TABLES (DATA): GRAPHS (CHARTS);
DIAGRAMS: LIPE-CYCLE COST: COSTS: EPFICIENCY;
ENERGY STORAGE; URBAN TRANSPORTATION; ENERGY
COMSUMPTION; EMERGY CONSERVATION; WEIGHT
AVAILABILITY: HTIS

<567> Seda, B. Research Institute for Rotating Electrical Machines ADDRESS: Brno, Czechoslovakia TITLE: Development of Electric Vehicles in Czechoslovakia

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KEYMORDS: ELECTRIC VEHICLES: DEVELOPMENT:
CEECHOSLOVARIA: BUSSES (VEHICLES): COMPROL AVAILBILITY: Electric Vehicle Council, 90 Park Ave., New York, NY 10016 \$1.50

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Sevian, W.A.: Salzano, F.J.
Brookhaven Fational Laboratory
ADDRESS: Tyton, NY
TITLE: Systems Study of Two Synthetic
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Report No. BHL-20071, CONF-741013-4, paper presented at the 145th Heeting of the Electrochemical Society, New York, New York, Oct. 17, 1974, 10 p.

SPONSOR: Energy Research and Development Administration RETURNES ALTERNATE FUELS; COAL; HIDHOGER; RETURNES SYNTHETIC FUELS; FORECASTING; HODELS; ENVIRONMENTAL IMPACT; TRANSPORTATION AVAILABILITY: NTIS

<569> Shaughnessy, A.E.
Wational Acadesy of Sciences, Wational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue, Washington, DC
20418 TITLE: Railroad Riectrification: The Issues Transportation Research Board Special Report 180, 88 p. 1977 RETWORDS: RAIL TRANSPORTATION; BAILHOADS; ELECTRIC RAIL SYSTEMS; COMPERENCES; EQUIPMENT; COSTS; ELECTRIC POWER DEHARD; FINANCING; PLANBING; CAPITAL COSTS; HAINTENANCE; ECONOMIC ANALYSIS AVAILABILITY: \$3.80

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Shaw, H.L.; Wood, R.K.
Logistics Management Institute
ADDRESS: Washington, DC
TITLE: Volumes and Transportation Costs of Possil
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SPONSOR: Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Econopic Analysis Divison; Energy Research and Development Administration, Administrator for Planning, Analysis, and Evaluation RETWORDS: PETROLEUM; COSTS; COAL; TRANSPORTATION; HATURAL GAS; REGIONAL ANALYSIS; EMERGY CONSOMPTION; HODELS; ENERGY SYSTEMS; SIMULATION; EMERGY SUPPLIES; GRAPHS (CHARTS); SUPPLY (ECOMONICS)

AVAILABILITY: NTIS

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Shergy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: Bartlesville, OK
TITLE: Hotor Gasolines, Finter 1976-77

Report No. BERC/PPS-77/3, 89 p. Report No. BERC/PPS-77/3, 89 p.
1977, June
RETFORDS: GASOLINE; SURVEYS: TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION; UNLEADED
AUTOMOTIVE FUELS; OCTANR; RAPS; HARKETING;
TYENDS; PHYSICAL PROPERTIES
AVAILABILITY: MIS

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Shelton, B.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. REPORT NO. BERCYPPS-7/75, 3s p.
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REYWORDS: DIESEL FUELS: FUEL OIL: TABLES (DATA):
GRAPHS (CHARTS): REGIONAL AWALTSIS: SURVEYS;
CHEMICAL PROPERTIES: CHEMICAL COMPOSITION; TRETING AVAILABILITY: NTIS

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Report No. BERC/PPS-78/1, 90 p. REPORT NO. SANCTION 1978, 1978, JANUARY RESERVORDS: GASOLINE; SURVEYS: TABLES (DATA): GRAPHS (CHARTS); DISTILLATION; UNLEADED <573> COHT. AUTOROTIVE PUELS; OCTABE: HAPS; HARKETIEG; TREEDS; PHYSICAL PROPERTIES AVAILABILITY: ETIS

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Shelton, E.fl.
7.S. Dept. of Energy, Bartlesville Energy
Pessearch Center
ADDRESS: Rartlesville, OK
TITLE: Aviation Turbine Puels, 1977

Report Bo. BERC/PPS-78/2, 13 p.
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REYWORDS: AVIATION FUELS; JET ENGINE FUELS;
COMPARATIVE EVALUATIONS; STATISTICS; CHEMICAL PROPERTIES

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Sherrer, P.W.
U.S. hept. of Transportation, Pederal Highway
Alministration, Highway Statistics Division,
Office of Highway Planning
ADDRESS: Washington, DC
TITLE: Road User and Property Taxes on Selected
Motor Vehicles: 1973

RETWORDS: ROADS; PROPERTY VALUES; TAXES; VEHICLES; HIGHWAYS; MOTORCICLES; AUTOMOBILES; BYSPS (VEHICLES); TRUCKS; TABLES (DATA); GRAPPS (CHARTS): STATE GOVERNMENT; HAPS AVAILABILITY: GPO \$0.90, Stock No. 5002-00098

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Dak Ridge Mational Laboratory, Energy Division,
Pegional and Orban Studies Section

ADDRESS: Oak Ridge, TH 37830

TITLE: Characteristics of Automotive Fleets in
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Transportation Energy Conservation
RETWORDS: AUTOHOTIVE FLEETS: AUTOHOBILES;
INVESTORISS: PURCHASING: PUBL ECONOMY;
OFFERSHIP; SUBVEYS; TABLES (DATA); SIZE;
VENICLE REGISTRATIONS; VENICLE RILES
TRAVELED: CHARACTERISTICS
AVAILABILITY: HTIS

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Shonka, D.B.; Loebl, A.S.; Patterson, P.D.;
 O'Comnor, T.P.; Ogle, A.C.; Bose, A.B.;
 Greene, D.L.
Oak Ridge National Laboratory, Energy Division,
 Regional and Urban Studies Section
ADDRESS: Oak Ridge, TW 37380
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
RETWORDS: EMERGY CONSERVATION: RIGHWAY TRANSPORTATION; AIR TRANSPORTATION; RAIL TRANSPORTATION; RAIL TRANSPORTATION; PARTIES TRANSPORTATION; STATISTICS; TABLES (DATA); GRAPHS (CHARTS); VEHICLES;

REGULATIONS: EMERGI CONSUMPTION; DEMAND
(ECONOMICS): FUEL ECONOMY: FUEL CONSUMPTION;
AUTOMOBILES; EMERGY INTERSITY: TRAVEL; EMERGY
DEMAND; PASSENGER TRANSPORTATION; AUTOMOTIVE
FLEETS; PETROLEUM; SALES; PUBLIC
TRANSPORTATION; UBBAN TRANSPORTATION; VEHICLE
REGISTRATIONS: VEHICLE HILES TRAVELED;
FORECASTING; GOVERNMENT POLICIES; EMERGY
SUPPLIES; WATER TRANSPORTATION
AVAILABILITY: MTIS

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Silberman, J.B. (ed.)
Bational Academy of Sciences, Mational Research
 Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
 DC 20418
TITLE: Value of Travel Time

Transportation Research Record 587, 41 p. RETWORDS: TRAVEL TIME; TRANSPORTATION; VEHICLE TRIPS; PRICES; PLANNING; HODELS; PASSENGER TRANSPORTATION; COSTS; INTERCITY TRANSPORTATION; BEHAVIOR; USERS; ECONOMIC AWALISIS; BENEFIT COST AWALISIS; COST EFFECTIVENESS; TRAFFIC; PESEARCH; MOBILITY AVAILABILITY: \$2,40

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ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation Energy Conservation and Demand

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EMERGY DEMAND; DEMAND (ECONOMICS);
CONFERENCES; MEETINGS; URBAN TRANSPORTATION;
ATTITODES; EMERGY SHORTAGES; RURAL AREAS;
COMMUTING; MEM JERSEY; GASOLIME: OMMERSHIP;
ENVIRONMENTAL IMPACT; TABLES (DATA)
AVAILABILITY: \$5.00

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 Reeting of the Righway Research Board, published in Righway Research Record No. 439, 19-27

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TRAVEL TIME: PEAK-HOUR DEMAND: VELOCITY:
URBAN TRANSPORTATION: URBAN AREAS; DISTANCE;
GRAPHS (CHARTS)

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AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20818
\$2.00 for Highway Research Record No. 439

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Simpson and Curtin; Booz, Allen Applied Research Inc.
ADDRESS: S&C, 1346 Chestnut Street, Philadelphia, PA 19107; B-A, 4733 Bethesda Ave., Bethesda, HD 2001a
TITLE: Transbus Public Testing and Evaluation Program

Report Mo. PB-251882, UNTA-IT-06-0025-76-1, 245 p.
1976, January
SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration
REYWORDS: TRANSPOS; TESTING; BUSES (VEHICLES);
PUBLIC OPINION; QUESTIONNAIRES; SURVEYS;
TABLES (DATA); TRANSPORTATION DISADVANTAGED;
PHOTOGRAPHS; PASSENGER TRANSPORTATION
AVAILABILITY: MTIS

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Skinner, L.Z.
U.S. Dept. of Transportation, Federal Righway Administration
TITLE: Comparative Costs of Orban Transportation Systems

Pinal Report, 100 p.
1978, June
REWORDS: COSTS; DRBAN TRANSPORTATION;
TRANSPORTATION SYSTEMS; COMPARATIVE
EVALUATIONS; TRAVEL TIME; PLANNING;
TRANSPORTATION HODE 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.
Searzal Motors Corp., Research Laboratories,
 Physics Dept., Environmental Activities Staff
ADDRESS: Warren, HI
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.
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KEYWORDS: TIRES: VELOCITY: MODELS; FUEL ECONOMY; AUTOMOBILES; FRICTION; WEAR
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

<584> Sobel, K.L.: Batchelder, J.H. Hultisystems 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 RETWORDS: UBBAR TRANSPORTATION; PUBLIC TRANSPORTATION; PUBLIC OFFICE HOBILITY: PUBLIC OPPRIOR
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
KEYFORDS: AUTOMOBILES: FUEL ECONOMY: TESTING;
FUEL CONSUMPTION: UTILIZATION: OPERATION;
DESIGN: LUBRICANTS: GASOLINE: BIBLIOGRAPRIES

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Report No. SAE SP-411, Off-Highway Vehicle
Heeting, Milwaukee Wisconsin, September
13-16, 1976, 5a p.
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Milwaukee Section
KEYMORDS: AUTOMOTIVE ENGINES; AUTOMOTIVE
ENGINEERING; FUEL CONSUMPTION; FUEL ECONOMY;
DESIGN; AUTOMOTIVE ENISSIONS; FARM EQUIPMENT;
DIESEL ENGINES: GRAPHS (CRARTS); DIAGRAMS;
SYNTHETIC FUELS; AUTOMOTIVE EMISSION COMTROL;
DYNAMOMETERS; TABLES (DATA); TRACTORS;

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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

LUBRICATING OILS

12 p.
1974, October 3
RETHORDS: PLANNING; TRANSPORTATION; ENERGY
CONSERVATION; INTERCITY TRANSPORTATION;
TABLES (DATA); SIMULATION; EMERGY
CONSUMPTION; GOVERNMENT POLICIES; BUSES
(VEHICLES); RAIL TRANSPORTATION; AUTOMOBILES;
AIR TRANSPORTATION; RAPID TRANSIT SISTEMS;
SUBSIDIES; TAXES

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

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 Dustin, M.O.

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GRAPHS (CHARTS); EMERGY COMSUMPTION
AVAILABILITY; MIS

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SISTEMS: BATTERIES; PASSENGER TRANSPORTATION;
DRIVING CYCLE; PERFORMANCE; HILEAGE; EMERGY
CONSUMPTION; STANDARDS; PHOTOGRAPHS; GRAPHS
(CHAPTS); ELECTRIC VEHICLE RANGE
AVAILABILITY: HTIS

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ADDRESS: SRI, San Antonio, TX; CE, Denver, CO;
SOHIO, Grand Junction, CO
TITLE: Identification of Probable Automotive
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ATTOMOTIVE PUELS; DIESEL PUELS; MARKET;
TRANSPORTATION; EMERGY FLOW; TABLES (OATA);
FORECASTING; EMERGY DEMAND; SYMTHETIC
PETROLEMS; REFINING; PROPERTIES; OIL SHALE;
ALCOHOL FUELS; AUTOMOBILES; METHANOL; COAL;
PRODUCTION; HUDROCARBONS; INTERNAL COMPUSTION
EMGINES; OCTANE; GASOLINE

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TRANSPORTATION; GREAT LAKES; EMPICIENCY

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ADDRESS: Arlington, VA
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ELASTICITY (ECONOMICS): BUILDINGS: EMERGY
CONSUMPTION: STANDARDS: ATTITUDES: PUBLIC
OPINION; INCENTIVES: INSULATION: APPLIANCES

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RETWORNS: FURLS: PRICES: FORECASTING: COAL;
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MATURAL GAS: SYNTHETIC GAS: SYNTHETIC PATORAL GAS; SYMTHETIC GAS; SYMTHETIC PETFOLEMEN; ELECTOR: COMMERCIAL SECTOR; INDUSTRIAL SECTOR: COMMERCIAL SECTOR; INDUSTRIAL SECTOR: TRANSPORTATION; EMERGY MODELS: NUCLEAR FOELS; GRAPHS (CHARTS); TABLES (DATA); EMERGY DENAMD

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98025
TITLE: Fuel and Energy Price Forecasts: Final
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RETRORDS: ENERGY SUPPLIES: ENERGY HODELS: EMERGY
BALANCE: DEFAND (SCOMONICS): PRICES: COSTS;
TABLES (DATA): GRAPHS (CHARTS): RESIDENTIAL
SECTOR: COMMERCIAL SECTOR: INDUSTRIAL SECTOR; TRANSPORTATION: FURLS: EMERGY CONVERSION: ECONOTICS AVAILABILITY: Electric Power Research Institute, 3412 Millview Are., Palo Alto, CA 94304

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ADDRESS: Henlo Park, CA 94025
TITLE: Long Ters Energy Alternatives Propulsion:
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LIFE-CYCLE COST; ENVIRONMENTAL IMPACT; COAL
LIQUEFRACTION: BATTERIES; TABLES (DATA);
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TRANSPASSION TRANSMISSIONS AVAILABILITY: NTIS

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GOVERNMENT AVAILABILITY: FTIS

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Transportation Institute
ADDRSSS: University Park, PA 16802
PITLE: An Experiment in Preight Rodal Choice:
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HIGHWAY TRANSPORTATION; TRUCKS: COMBODITIES;
RAIL TRANSPORTATION; PROCES; COMBODITIES;
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RARRET; COMPETITION; RATES (COSTS); TOWNAGE;
DISTANCE; TABLES (DATA); REGIONAL ABALTSIS;
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AVAILARILITY; HTIS

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AVAILABILITI: Mational Academy of Sciences,
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Constitution Ave. NV. Washington, DC 20418
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INCOME; VEHICLE TRIPS; COST ESTIMATES;
IFSURANCE; TABLES (DATA); SURVETS;
AUTOMOBILES; OPERATING COSTS; ELASTICITY
(ECONOTICS); OCCUPANCY; GRAPHS (CHARTS);
HAINTENANCE; FUEL ECONOMY

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ADDRESS: 3286 M Street NW, Washington, DC 20007
FITTE: Statistical Peport on Urban Energy
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CONSUMPTION: GOVERNMENT POLICIES; URBAN
AREAS; REBRGI RESOURCES; PRICES; PETROLEUM;
MS DOT; STATISTICS; TABLES (DATA); COAL;
NATURAL GAS; ELECTRIC POWER; RESIDENTIAL
SECTOR; INDUSTPIAL SECTOR; TRANSPORTATION
AVAILABILITY: NTIS

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ADDRESS: Stanford, CA 94305
TITLE: U.S. Gasoline Desand: An Economic
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RETWORDS: GASOLINE; PUTL ECONOMY; AUTOHOBILES;
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AUTOHOTIVE INDUSTRY; PRICES; GOVERNMENT
POLICIES; ECONOMIC AWALYSIS; ELASTICITY
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Tacina, R.
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Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Experimental Evaluation of
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KETWORDS: TOTAL INJECTION SYSTEMS; ATOMIZATION; EVAPORATION; DIAGRAMS; GRAPHS (CHARTS); GAS TURBINES: CATALISTS; COMBUSTORS; AUTOMOBILES AVAILABILITY: MTIS

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ADDRESS: Kendall Square, Cambridge, NA 02142
TITLE: Transportation Statistical Data and
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Affairs, Office of Transportation Systems
Analysis and Information
REFURDES: TRANSPORTATION; STATISTICS; GOVERNBENT
POLICIES; INFORMATION; AVAILABILITY
AVAILABILITY: NTIS

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Taussig, W.H.
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ADDRESS: Cansan Street Tillage, Cansan, NR 03741
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UNITED KINGDOM; STATISTICS; AIR
TRANSPORTATION; REVENUE; COMPARATIVE
PYALUATIONS; PASSENGER TRANSPORTATION;
OPEPATING COSTS; CAPITAL COSTS; CARGO
TRANSPORTATION; USA; PRODUCTION; FINANCIAL
DATA; EARNINGS; PROPITS
AVAILABILITY; MTIS

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TITLE: The Heed for and Deployment of
Inexhaustible Energy Resource Technologies:
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SPONSOR: Energy Research and Development
Administration
RETWORDS: ENERGY RESOURCES; SOLAR EMERGY; NATURAL
GAS: SPACE HEATING; TECHNOLOGY; EMERGY
DMHAMD; EMERGY CONVERSION; COST ANALYSIS;
SUPPLY (ECONOMICS): GRAPHS (CHARTS); IMPORTS;
TABLES (DATA); SYNTHETIC PUELS; PRICES; RATES
(COSTS); COMMERCIAL SECTOR; ELECTRIC POWER;
UTILIZATION; TRANSPORTATION

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ADDRESS: Cleveland, OH 44135
TITLE: A Stirling Engine Computer Model for
Performance

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AVAILABILITY: GPO, Stock No. 757-139/1201

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(CHAPTS); DIAGRAMS; AUTONOTIVE EMISSIOMS;
FEBSIBILIT; TESTING; WASTE HEAT; RECOVERY;
UTILIZATION; DEMONSTRATION
AVAILABLITY: NTIS

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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
SPOMSOR: 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

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Duffey-Arastrong, H.: Sandys, R.C.
Stanford Research Institute
ADDRESS: Menlo Park, CA 94025
TITLE: A Methodology for Making a Quantitative
Assessment of Passenger Transportation
Alternatives

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SPONSOR: U.S. Dept. of Defense, Naval Facilities
Engineering Command, Office of Naval
Research; Energy Research and Development
Administration
KETHORDS: PASSENGER TRANSPORTATION;
TRANSPORTATION HODE CHOICE; LAMD USE; EMERGY
CONSERVATION; AIR QUALITY; TRAFFIC; EMERGY
CONSUMPTION; COMMUTERS; COSTS: HIGHMAIS;
MODELS; STATISTICS; IMPUT-OUTPUT AMALYSIS;

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Towle, W.L.; Graze, J.E.A.; Chilenskas, A.A.;
Ivins, R.O.
Argonne Mational Laboratory
ADDRESS: 9700 South Cass Ave., Argonne, IL 60439
TITLE: Cost Estimate for the Commercial
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Report No. ANL-76-12, 67 p.
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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REIMORDS: COSTS; LITHIUM/METAL SULFIDE BATTERIES;
LOAD HAWAGEMENT; UTILITIES; MANUFACTURING;
LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES;
PRICES; ECONOMICS; DIAGRAMS
AVAILABILITY; MTIS

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Washington, DC 20024
TITLT: Trinc's Blue Book of the Trucking
Industry: 1977 Edition

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KEYWORDS: THUCKS; INDUSTRIAL SECTOR; FINANCIAL
DATA; STATISTICS: TABLES (DATA); HAMPOFER;
INTERCITY TRANSPORTATION; EQUIPMENT; BALANCE
SHEPTS; EXPENSES; REVENUE; REGIONAL ANALYSIS;

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ADDPES: 2430 Pennsylvania Ave. NW, Washington,
DC 20037
TITLE: 1977-78 Truck Trailer Manufacturers
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**PYPORDS: DIRECTORIES: MANUPACTURERS: TRUCKS:
TRAILEPS: CONTAINERS

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ADDRESS: McLean, VA 22101
TITLE: Allocation of Matural Gas Under Energy
Emergencies: Analysis of Selected Federal

Doc. Wo. 97461-8001-RU-00, v.p.
1978, September
SPONSOF: Oak Ridge National Laboratory
REYWORDS: GOVERNMENT POLICIES; ALLOCATIONS;
FATORAL GAS; RATIONING; EMPRCY EMERGENCY
PLANNING; PIPELIMES; EMERGY PLOW; PRODUCTION;
STATP ANALYSIS; COSTS; PORECASTING; PRICES;
FUEL SUBSTITUTION; TRANSPORTATION; PROPAME;
MINNESOTA; OHIO; TABLES (DATA)

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REYMORDS: HANAGEMENT: FLORIDA: TRANSPORTATION: SCHEDULING: STATE GOVERNMENT: PLANNING: DECISION MAKING

AVAILABILITY: Mational Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Mashington, DC 20418 \$3.60 for Transportation Research Record

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Turner, F.C.: Davis, R.E.
International Road Pederation
ADDRESS: 1023 Washington Ruilding, Washington, DC
27005
TITLE: A Comparative Analysis of Orban
Transportation Requirements, Volumes I and II

Report No. PB-267788, PHWA-PL-77013, 52 p. for Yolume I; Report No. PR-267789, PHWA-PL-77014, 832 p. for Yolume II 1977, February 25
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KEYWORDS: COMPARATIVE EVALUATIONS; URBAN TRANSPORTATION; TRBLES (DATA); REGIONAL ANALYSIS; SOCIO-ECOHONIC FACTORS; RAIL TRANSPORTATION; POPULATION (STATISTICS); COSTS; VEHICLE REGISTRATIONS; BUSES (VEHICLES); TRUCKS; AUTOHOBILES; HASS TRANSPORTATION; BRUSSELS; CANADA; PARIS; HUNICH (GERMAN FEDERAL REPUBLIC); UNITED KINGDOM; ITALT; JAPAH; MEXICO CITY; OSLO; SPAIN; STOCKHOLM; SWITZERLAND; ATLANTA; CHICAGO; DENVER; LOS ANGELES; NEW YORK CITY; PHILADELPRIA; SAN FRANCISCO; SEATTLE; WASHINGTON DC; REPUBLIC OF KOREA

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ADDPESS: Washington, DC
TITLE: Mational Traffic and Hotor Vehicle Safety
Act of 1966

Public Law 89-563, 89th Congress, S. 3005, 13 p.
1966, September 9
KEYWORDS: SAPETY; GOVERNMENT POLICIES;
REGULATIONS; STANDARDS; MOTOR VEHICLES;
ACCIDENTS; MANUPACTURERS
AVAILABILITY: House and Senate Document Room,
Capitol Building, Washington, DC

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KETWORDS: PAIL TRANSPORTATION; RAILROADS; INTERSTATE COMMERCE COMMISSION; REVENUE; GOVERNHENT POLICIES; RATFS (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

Public Law 92-513, 92nd Congress, S. 976, 17 p.
1972, October 20
RETWORDS: PASSENGER TRANSPORTATION; STANDARDS:
MOTOR VEHICLES; AUTOMOBILES; GOVERNMENT
POLICIES; REGULATIONS; SAPETT; EQUIPMENT;
ACCIDENTS; LEGAL ASPECTS; IFSURANCE;
ODOMETERS; BUMPERS
AVAILABILITY: House and Senate Document Room,
Capitol Ruilding, Washington, DC

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U.S. Congress
ADDPESS: Washington, DC
TITLE: Noise Control Act of 1972

Pablic Law 92-574, 92nd Congress, H.R. 11021 1972, October 27 KETWORDS: MOISE POLLUTION; GOVERNMENT POLICIES; REGULATIONS: STANDARDS: COMBERCIAL SECTOR: EQUIPMENT: AIRCRAFT: LEGAL ASPECTS; RAILROADS; MOTOR VEHICLES; INTERSTATE <628>
<628> COST.
TRANSPORTATION; TRANSPORTATION
AVAILABILITY: Nouse and Senate Document Room,
Capitol Building, Washington, DC

<629> U.S. Congress ADDRESS: Washington, DC TITUE: Pederal-Aid Righway Act of 1976 and Bighway Safety Act of 1976

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1976, Ray 5
REYMORDS: INTERSTATE TRANSPORTATION; HIGHWAYS;
HIGHWAY TRANSPORTATION; CONSTRUCTION;
GOVERNMENT POLICIES; APPROPRIATIONS; TRAPFIC
COMPROL; SAFETT; RAIL TRANSPORTATION; RUSES
(VRHICLES)
AVAILABILITY: House and Senate Document Room,
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Congressional Committee Print, 47 p.
1977, June 6
SPONSOR: U.S. House of Representatives, Committee on Pays and Heans
KEIWORDS: TRANSPORTATION; LEGISLATION; TAXES;
ANTONOBILES; ECOMONICS; GASOLINE; FUEL
CONSUMPTION; INDUSTRIES; REVENUE; EMERGY
POLICY; EMERGY CONSERVATION; TABLES (DATA);
INCOME: FUEL ECOMONY

<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, Committe on Interior and
Insular Affairs
REYFORDS: EMERGY POLICY; PLANNING; LEGISLATION;

In sular Affairs

KEYVOR DS: EMERGY POLICY: PLANNING: LEGISLATION:
SOCIO-ECOMOBIC FACTORS: EMERGY SUPPLIES;
EMERGY DEMANO: SOCIAL IMPACT: PRICES: POSSIL
FM ELS: COAL: PETROLEUM: NATURAL GAS: MUCLEAR
EMERGY: EMERGY COMSERVATION: TABLES (DATA):
MATIONAL EMERGY PLAN
RVALLBILITY: 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 Hass Transit. Volume I: Summery

Report No. PB-253679, OTA-T-16, 82 p.
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RETHORDS: HASS TRANSPORTATION; GOVERNMENT
POLICIES; URBAN TRANSPORTATION; URBAN ARRAS;
PLANNING: TECHNOLOGY ASSESSMENT; PINANCING;
PHOTOGRAPHS; TABLES (DATA); STATE ANALYSIS
AVAILABILITY; NTIS

<633> U.S. Dept. of Connerce, Bureau of Econonic Analysis ADDRESS: Washington, DC TITLE: 1975 Business Statistics. Twentieth Biennial Edition

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1976, May
KEYBORDS: STATISTICS; INCOME; PRICES; FINANCIAL DATA; TRADE; CONSTRUCTION; EMPLOYMENT;
INTERNATIONAL TRADE; TRANSPORTATION; ELECTRIC POWER; NATURAL GAS; PETROLEUN; COAL; TABLES (DATA); INDUSTRIES; EARNINGS
AVAILABILITY: GPO \$5.10

<634> U.S. Dept. of Commerce, Bureau of the Census ADDRESS: Rashington, DC TITLE: 1967 Census of Transportation. Commodity Transportation Survey - Commodity Groups: Part 2, Selected Hajor TCC 3-Digit Classes

Report No. TC67-C3-2, 373 p.
1970, June
KEYBORDS: TRUCKS; CARGO TRANSPORTATION;
HANUPACTURERS; INDUSTRIES; COMMODITIES;
DISTRIBUTION; TABLES (DATA); FEIGHT
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 Swall Manufacturing Plants

Report No. TC67-C3-4, 39 p.
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KEYNORDS: TPAFFIC; 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
KEYGORDS: IMPERMATIONAL TRAVEL; INTERNATIONAL
MARKET PROPERTY. TOTAL TRAVEL; INTERNATIONAL
MARKET PROPERTY. TOTAL TRAVEL; INTERNATIONAL

REFEORDS: INTERNATIONAL TRAVEL: INTERNATIONAL TRADE: TRANSPORTATION: COMMODITIES: CARGO TRANSPORTATION: SURVEYS: TABLES (DATA): GRAPHS (CHARTS); WEIGHT: WATER TRANSPORTATION; AIR TRANSPORTATION; AIR TRANSPORTATION; AIR TRANSPORTATION; AIR TRANSPORTS: INPORTS: REGIONAL ANALTSIS: QUESTIONNAIRES: DISTANCE AVAILABILITY: GPO

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U.S. Dept. of Connerce, Bureau of the Census,
Business Division
ADDRESS: Washington, DC
TITLE: 1972 Census of Wholesale Trade. Subject
Series: Petroleus Bulk Stations and Terminals

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Series No. WC72-3-2, 157 p.
1975, October
KEYWORDS: PETROLEUM; PETROLEUM PRODUCTS; STATE
ANALYSIS; STORAGE; CAPACITY; REGIONAL
ANALYSIS; LIQUEPIRO PETROLEUM GARRS; TABLES
(DATA); STATISTICS; SALES; WHOLESALE TRADE;
RETAIL TRADE; CAPITAL COSTS; TRANSPORTATION
AVAILABILITY; GPO

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U.S. Dept. of Connerce, Rureau of the Census, Poreign Trade Division
ADDRESS: Washington, DC 20233
TITLE: United States Foreign Trade: Bunker Puels. Oil and Coal Laden in the United States on Vessels Engaged in Foreign Trade

Annual and Wonthly reports, Foreign Trade Series \$10, v.p.
KEYWORDS: COAL; INTERNATIONAL TRADE: DIESEL PUELS; MARINE TRANSPORTATION; PUEL OIL: USA; ENERGY CONSUMPTION; INFORTS; EXPORTS; PETROLETH; TABLES (DATA); MARBORS; STATISTICS; WATER TRANSPORTATION; SHIPS

<639>
U.S. Dept. of Connerce, Bureau of the Census, Industry Division
ADDRESS: Washington, DC
TITLE: Annual Survey of Oil and Gas: 1976

Current Industrial Reports, Series No.

18-13 (76)-1, 45 p.
1977, December
**ETWORDS: 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

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U.S. Pept. of Commerce, Bureau of the Census, Population Division
ADDRESS: Washington, DC
TITLE: Consuser 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
RETWORDS: COMSUMERS; INCOME; REGIONAL ANALYSIS;
STATE ANALYSIS; POPULATION (STATISTICS); AGE
GROUPS; RACE; POVERTY; SEX
AVAILABILITY: GPO

C641> U.S. Tept. 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
RETWORDS: INDUSTRIAL SECTOR; CONSTRUCTION
INDUSTRY; HATERIALS; COMMERCIAL SECTOR;
HAUPACTURING; FORECASTING; GROWER; LUMBER
I*DUSTRY; PAPER INDUSTRY; HETAL INDUSTRY;

TRANSPORTATION; TABLES (DATA); GRAPHS (CHARTS); CHEMICAL INDUSTRY; FARRETING; WHOLUSALE TRADE; RETAIL TRADE; HOUSEHOLD GOODS; COMMUNICATION; HACRIMERT; ELECTRICAL EQUIPMENT

AVAILABILITY; GPO, Stock No. 003-008-00179-3

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U.S. Dept. of Connerce, Haritime Administration,
Office of Subsidy Administration
ADDRESS: Washington, DC
TITLE: Herchant Fleets of the World: Oceangoing
Steam and Hotor Ships of 1,000 Gross Tons and
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Annual report, Report No. HAR-560-20, 47 p.
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KEYMORDS: HARINE TRANSPORTATION; TOWNAGE;
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CARGO TRANSPORTATION; TABLES (DATA);
INVENTORIES

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372 p.
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RETTORDS: WATER TRANSPORTATION; CARGO
TRANSPORTATION; STATISTICS; INTERNATIONAL
ANALYSIS; PASSENGER TRANSPORTATION; SKIPS;
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AVAILABILITY; GPO, Stock No. 003-007-00083-9

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TITLE: Waterborne Commerce of the United States: Calendar Year 1976. Parts 1-5

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RETRORDS: WATER TRANSPORTATION; TABLES (DATA);
STATISTICS; COMMERCE; WATERWAY
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AWALYSIS; TRADE; TRAFFIC; HARBORS; COASTS;
BARGES; INTERNATIONAL TRADE
AVAILABILITY: U.S. Aray Engineering Division, New
England, 424 Trapelo Road, Waltham, NA 02154

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ADDRESS: Washington, DC
TITLE: Energy Energencies

Report No. CPG 1-28, v.p.
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RETPORDS: REMEGT EMERGENCY PLANNING; MEALTH;
SAPETY; SPACE MEATING; ELECTRIC POWER DEHAND;
BATTRAL GAS; STATE GOVERNMENT; PUBL
COMSCHPTION; ALLOCATIONS; FUEL ECONOMY;
BMERGY COMSERVATION; RESIDENTIAL SECTOR;
TRANSPORTATION

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ADDRESS: Washington, DC 20585
FITLE: Electric and Hybrid Vehicle Program:
Small Bushoss Planning Grants

Progres Announcement No. EM-78-N-01-4205, 45 p.
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KETWORDS: ELECTRIC VEHICLES; MYBRID
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PLANNING; ERSEARCH

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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, PY 1977

Report No. DOE/EDP-0018, 163 p.
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REYWORDS: PLANBING; TECHNOLOGY; TRANSPORTATION;
HIGHWAY TRANSPORTATION; BLECTRIC VEHICLES;
ENGINES; HYBRID ELECTRIC-POWERED VEHICLES;
ALTERNATE FUELS; SYNTHETIC FUELS; HITIGATION;
HEAFTH; SAFETT; ENVIRONMENTAL IMPACT;
DIAGRAMS; STIRLING ENGINES; GAS TORBINE
ENGINES; PIPELINE TRANSPORTATION; STRATIFIED
CHANGE ENGINES; DRIVING CYCLE; FUEL
CO MSUMPTION; COMPARATIVE EVALUATIONS
AVAILABILITY; MTIS

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U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Office of Business assistance Programs
ADDRESS: Washington, DC 20585
TITLE: Voluntary Business Energy Conservation Program: Progress Report No. 6

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1978, April
REYBOADS: INDUSTRIES; INDUSTRIAL SECTOR; ENERGY
CORSERVATION; EMERGY CONSUMPTION; AVIATION;
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CONSTRUCTION INDUSTRY; EMERGY DENAMD; AIR
CONDITIONING; PUELS; GRAPHS (CHARTS)
AVAILABILITY; GPO, Stock No. 061-000-00052-6

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Report No. CONF-760165, Proceedings of the Norkshop held January 13-14, 1976 in Knoxville, TH, 187 p. 1978, June SPONSOR: U.S. Dept. of Transportation; Federal Energy Administration; Tennessee, University of

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RETURNS: CARGO TRANSPORTATION; PLANNING; DEHAND
(ECOMONICS); URBAN TRANSPORTATION; RAIL
TRANSPORTATION; INTERNATIONAL TRADE; TRUCKS;
TABLES (DATA); GRAPES (CHARTS); WATER
TRANSPORTATION; CONHODITIES; RATES (COSTS);
SHIPMENTS; LAND USE; SOCIO-ECONONIC FACTORS;
ENVIRONMENTAL IMPACT; GOVERNMENT POLICIES;

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ADDRESS: Washington, DC
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ENVIRONMENTAL IMPACT; SUPPLY (ECONOMICS);
TABLES (DATA); TECHNOLOGY ASSESSMENT; POSSIL

Review Draft, Report No. DOE/ET-0010/1(D), 399 p.
1977, December
REYBORDS: RESIDENTIAL SECTOR; CONTERCIAL SECTOR;
TRANSPORTATION; INDUSTRIAL SECTOR;
ENVIRONMENTAL IMPACT; SUPPLY (ECONOMICS);
TABLES (DATA): TECHNOLOGY ASSESSMENT; POSSIL
FUELS; COAL; SOLAR EMERGY; ENERGY
CONSERVATION; ENERGY SUPPLIES; DEHAND
(ECONOMICS); PLANNING; HARKET; ENERGY
CONSERVATION; ENTORAL GAS; PETROLEUM; ELECTRIC
FOWER GENERATION; HEALTH; SAPETY; COMPARATIVE
EVALUATIONS; GRAPHS (CHARTS); RESEARCH;
COMPERCIALIZATION; PORECASTING

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U.S. Dept, of Energy, insistant Secretary for Environment; U.S. Dept. of Energy, Office of Technology Ispacts; U.S. Dept. of Energy, Office of Planning Coordination
ADDRESS: Washington, DC
ZITLE: Environmental Development Plan (EDP):
Summary and Status of Environmental
Development Plans, PY 1978

Report Ho. DOE/EDP-0025, 83 p.

1978, April
REMORDS: SOLAR EMEPGI; GEOTHERHAL EMFRGI; FOSSIL
FUELS; COAL GASIFICATION; EMERGY
COMSERVATION: COAL LIQUEFACTION; TECHNOLOGY;
HAGMETOHIDRODYNAMICS; COMBUSTION; COAL;
MUCLDAR EMERGY; BIORASS; UNCOMPUBTIONAL
EMERGI SOURCES; PHOTOVOLTAIC CONVERSION; AIR
POLLUTION; WATER POLLUTION; BUILDINGS;
INDUSTRIAL SECTOR; TRAMSPOPTATION; HEALTH;
SAFETY; SOCIO-ECOMONIC FACTORS; EMVENOMEMBAL
IMPACT; ELECTRIC POWER; OCEAN THERMAL EMERGY
COPPURSION
AVAILABILITY; WITS

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U.S. Dept. of Emergy, Division of Transportation
Emergy Conservation
ADDRESS: Washington, DC
TITLE: The First Annual Report to Congress on the
Implementation of Public Law 94-413: The
Ricctric and Sybrid Vehicle Research,
Development and Demonstration Act of 1976

Report No. DOB/CS-0002/1, 78 p.
1977, December
RETPORDS: BLECTRIC VEHICLES; RESEARCH PROGRAMS;
BESEARCH: DEVELOPMENT; US DOE; GOVERNMENT
POLICIES; DENONSTRATION; INDUSTRIES
RYAILABILITY: GPO, Stock No. 061-000-00024-1

<653> U.S. Dept. of Energy, Division of Transportation Energy Conservation ADDRESS: Washington, DC 20585 TITLE: Program Planning Document: Highway Webicle Alternative Puels Utilization Program (APUP)

Report No. DOB/CS-0029, v.p.
1978, April
RETWORDS: ALTERNATE FUELS; HIGHWAY
TRANSPORTATION; UTILIZATION; EMERGY
CONSURPTION; SYNTHETIC FUELS; FUNDING;
RESEARCH; PETROLEUR; TECHNOLOGY ASSESSMENT;

<653> CORT. GRAPHS (CHARTS)

<65a> 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
RETWORDS: ALTERNATE FORLS: UTILIZATION; US DOE:
INTERNATIONAL AWALYSIS: TRANSPORTATION;
WANTED TO ANALYSIS: TRANSPORTATION;

<655> U.S. Dept. of Energy, Division of Transportation Energy Conservation ADDPESS: Washington, DC TITLE: Electric and Hybrid Vehicle Desonstration: 1978

Report Fo. DOR/CS-0046, 13 p.
1978
REYWORDS: ELECTRIC VEHICLES; HYBBID
ELECTRIC-POWERED VERICLES; US DOE; HARRET;
DEHONSTRATION; UTILIZATION; ELECTRIC VEHICLE
RANGE: RESEARCE
AVAILABILITY: GPO, Stock Mo. 061-000-00171-9

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U.S. Dept. of Energy, Division of Transportation
Energy Conservation, Office of Highway
Vehicle Systems
ADDRESS: Washington, DC
TITLE: Highway Vehicle Systems Contractors
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Thirteenth Summary Report, Report No.
COMF-771037, proceedings of a conference held
October 4-6, 1977, Dearborn, Hichigan, 430 p.
1978, Harch
RETWORDS: COMPERENCES: AUTOMOTIVE ENGINES: US
DOR: 645 TURBINE ENGINES: HEAT ENGINES; MASA;
FUEL ECONOMY: PASSENGER TRANSPORTATION: HEAT
EXCHANGESS: STIRLING ENGINES: DESIGN:
ALTERNATE FUELS: TRANSPORTATION: ENERGY
CONSERVATION: DIAGRAMS; PHOTOGRAPHS; GRAPHS
(CHARTS)
AVAILABILITY: HTIS

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U.S. Dept. of Energy, Economic Regulatory
Administration
ADDPESS: Washington, DC
TITLE: Fotice of Proposed Rulemaking and Public
Hearing to Establish Contingency Gasoline
Pationing Plan

<658> U.S. Dept. of Energy, Economic Regulatory Alministration ADDRESS: Washington, DC TITLE: Preliminary Findings and Views Concerning the Exception of Kerojet Puels from the Handatory Petroleum Allocation and Price Regulations

Report No. DOE/ERA-0002, 104 p.
1976, January
KSYNORDS: AIR TPANSPORTATION; EMERGY DEMAND;
BISTORY; EMERGY SUPPLIES; COSTS; PETROLEUM;
TABLES (DATA); AVIATION FUELS; TURBIBES;
KEROSENE; ECONOMIC IMPACT; IMPORTS;
DISTRIBUTION; FORECASTING; REFINERIES;
HILITARY UTILIZATION; TRANSPORTATION;
REGULATIONS; PRICES; MARKET; ALLOCATIONS

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J.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
Bandatory Petroleum Allocation and Price
Regulations: Supplement to September 1977
Report

Report No. DOE/ERA-0012, 72 p.
1978, May
KEYNORDS: GASOLINE; PETROLEUH; ALLOCATIONS;
REGULATIONS; EMERGENCY BURRGY PLANNING;
GOVERNHENT POLICIES; EMERGY SHORTAGES; EMERGY
DEMAND; PRICES; HISTORY; FUEL COMSUMPTION;
HARKET; TABLES (DATA); SALES; FORECASTING;
EMERGY 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 Hotor Gasoline from the Handatory Allocation and Price Regulations

34 p.
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RETWORDS: ENVIRONMENTAL IMPACT; ALLOCATIONS;
REGULATIONS; GASOLINE; GOVERNMENT POLICIES;
PRICES; VEHICLES; EMERGY POLICI; REGIONAL
AMALYSIS; WATER QUALITY; AIR QUALITY

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U.S. Dept. of Energy, Economic Regulatory
Administration, Office of Regulations and
Bescaency 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
KETWORDS: INDUSTRIAL SECTOR; STATE ANALYSIS;
COMPETITION; TABLES (DATA): US DOE; SALES;
ECOMONIC IMPACT; REGIGNAL ANALYSIS; FOEL
COMSUMPTION; GASOLINE; EMERGY SHURTAGES;
PRICES; REGULATIONS; PETROLEUM; ALLOCATIONS;
FORECASTING; ECONOMIC ANALYSIS; GROSS
HATIORAL PRODUCT; EMPLOYMENT; INCOME;
TRANSPORTATION

<662> U.S. Dept. of Energy, Energy Information <662>
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ADDRES: Washington, DC 20461
PITLE: Energy Information Administration Annual
Seport to Congress: 1977. Volume I

Report No. DON/RIA-00036/1, 106 p.
1978, February
RETWORDS: US DOE: DATA ACQUISITION: EMERGY
SUPPLIES: REERGY DEHAND: SYSTEMS ANALYSIS:
HISTORY

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Administration
ADDRESS: Washington, DC
TITLE: 1977 Energy Information Administration
Annual Report to Congress. Volume II:
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Their Impacts. (Also Executive Sussery)

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1978

REFFORDS: FORECASING: EMERGY DEHAND: EMERGY SUPPLIES; IMPORTS: TABLES (DATA); AIR POLICTION; GROWTH: GRAPHS (CHARTS); HISTORY; COMPETITION; REGULATIONS; INTERNATIONAL AMALTSIS: PRICES; RESIDENTIAL SECTOR; IMPOSTRIAL SECTOR; IMPOSTRIAL SECTOR; EMERGY COMSUMPTION; EMERGY SOURCES; PETROLEUM; NATURAL GAS; MUCLEAR YUELS; ELECTRIC FOWER; UNCONVENTIONAL MERGY SOURCES; ALTERNATE PUBLS; ECONOMIC AMALYSIS:

SOURCES: ALTERNATE FUELS: ECONORIC APALYSIS: ECONORIC IMPACT: ENVIRONMENTAL IMPACT

<664>
U.S. Dept. of Energy, Energy Information Administration
Administration
ADDRESS: Vashington, DC
TITLE: Energy Information Administration Annual
Report to Congress. Volume III: Statistics and Trends of Energy Supply, Demand, and Prices

Peport Ro. DOE/EIA-0036/3, Volume III of 3 volumes, 145 p.

1978, Bay
REYWORDS: TRANSPORTATION; STATISTICS; TABLES
(DATA); TRENDS; HISTORY; CONSUMERS; BNERGY
CONSUMPTION; EMERGY SUPPLIES; MATURAL GAS;
PETROLBUR; FOSSIL FUELS; EIPORTS; IMPORTS;
GASOLINE; SALES; GEOFMERMAL POWER GENERATION;
SOLAR EMERGY; DIESEL FUELS; RESIDENTIAL
SECTOR; PRICES; ELECTRIC POWER; NUCLEAR
EMERGY; GRAPHS (CHARTS)

<665>
U.S. Dept. of Energy, Energy Information
Administration, Office of Energy Data and
Interpretation
ADDRESS: Washington, DC 20467
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 Bineral Industry Surveys), 10 p. 1978, Hay 31 KHYPORDS: PRIROLEUM; IMPORTS; PRODUCTION; PEGIONAL ABALYSIS; PETROLEUM PRODUCTS; EMERGY DEMAND: TABLES (DATA) <666> U.S. Dept. of Energy, Nevada Operations Office ADDRESS: Les Vegas, NY TITLE: Driver hid and Education Test Project. Pinal Report

Report No. DOE/CS-0043, v.p.
1978, July
SPONSON: U.S. Dept. of Rnergy, Division of
Transportation Energy Conservation
RETHORDS: AUTOHORILE DRIVERS; EDUCATION;
AUTOHORIVE PUBLS; FUEL ECONOMY: AUTOHORILES;
TRUCKS; TESTING; HEASURING INSTRUMENTS;
DRIVING CYCLE; PERDBACK; TABLES (DATA);
GRAPMS (CHARTS); HORIBLY VARIATIONS
AVAILABILITY; BTIS

<667> U.S. Dept. of Energy, Office of Public Affairs ADDRESS: Washington, DC 20461 TITLE: DOE Proposes Energency Gasoline Rationing Plan

Department of Energy Information Press Release, m-76-219, 8 p. 1978, June 22 KEYWORDS: RATIONING; HEARINGS; EMERGY POLICY; GASOLINE; ALLOCATIONS; SALES; HARRETING; VEHICLES; PATROLEUM; GOVERNAENT POLICIES; AUTOHOBILES; PUBLIC SERVICES; COMSUMERS; PLAWNING; EMERGY POLICY AND CONSERVATION ACT; EMERGY EMERGENCY PLANNING

<668> U.S. Dept. of Energy, Office of the Under Secretary, Task Force on Alcohol Fuels ADDESS: Washington, DC 20585 TITLE: Alcohol Fuels Program Plan

Report No. DOE/US-0001/2, v.p.
1979, March
KETWORDS: ALCOHOLS; ETHANOL; HETHANOL; LIQUID
PUBLS; ALTERNATE PUBLS; SOCIO-ECONONIC
PACTORS; INDUSTRIAL SECTOR; PRICES; ECONONIC
ANALYSIS; EMBRGY RESOURCES; PETROLEUM; EMBRGY
EMBRGENCY PLANNING; COAL; BIOMASS; SOLID
WASTES; PLANNING; UTILIZATION; RESBARCH;
EMVIRONMENTAL IMPACT; TABLES (DATA)
AVAILABILITY; GPO, Stock No. 061-000-00064-0

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
REYWORDS: ALCOHOL FUELS; ALTERNATE FUELS; US DOE;
ETHANOL; HETHANOL; COMMERCIALIZATION;
PRODUCTION; FUEL CONSUMPTION; COSTS;
UTILIZATION; PLANNING; RESEARCH; GOVERNMENT
POLICIES

<670> U.S. Dept. of Interior, Bureau of Mines ADDRESS: Washington, DC FITLE: Minerals Yearbook: 1975. Folume 1. Metals, Minerals, and Yuels

Annual report, 1550 p.
1977
KETFORDS: HIMERALS; STATISTICS; TABLES (DATA);

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HETALS; FOSSIL PUBLS; PRODUCTION; HIMING;
RETRACTION; INDUSTRIES; COAL; MATURAL GAS;
PETPOLEM PRODUCTS; URABIUN; STATE AWALYSIS;
REGIONAL ANALYSIS; INTERNATIONAL TRADE
AVAILABILITY: GPO, Stock No. 024-004-01922-1

C671> U.S. Dept. of Interior, Bureau of Bines ADDRESS: Washington, DC TITLE: Minerals in the U.S. Economy: Ten-Year Supply-Demand Profiles for Mineral and Fuel Commodities (1966-75)

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KETPOROS: HIRERALS; PUELS; RESOURCES; TABLES
(DATA); SUPPLY (ECONOMICS); DEBAND
(ECONOMICS); RETALS; EMERGY SUPPLIES;
(CHONODITIES; TABLES (DATA); EMERGY SOURCES
AVAILABILITY; GPO

<672> T.S. Dept. of Interior, Bureau of Rines ADDRESS: Washington, DC TITLE: Status of the Rineral Industries: 1977

46 p.
1977
RETWORDS: HINERALS; INDUSTRIES; RIFIEG; HETALS;
GRAPHS (CHARTS); STEELS: PRODUCTION;
ALUHIUUR; TRANSPORTATION; ECONORICS;
PETROLETH RETYRING; IMPORTS; EXPORTS;
INTERNATIONAL TRADE; CONSTRUCTION HATERIALS;
EX PETR RESOURCES; COAL; PETROLEOH; NUCLEAR
FUELS; NATURAL GAS; URANIUH; IRON;
BECLAHATION; PLASTICS

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7.S. Dept. of Interior, Bureau of Rines, Division of Puels Data
ADDRESS: Washington, DC 20241
TITLE: Mineral Industry Surveys: Petroleum Refineries in the United States and Puerto Rico, January 1, 1977

Annuel report, 17 p.
1977, July 18
KEYMORDS: PETROLEUH; PUERTO RICO; PETROLEUH
REFIRERIES; PRODUCTION; CAPACITY;
DISTILLATION; REGIONAL ANALYSIS; TABLES
(DATA); CONSTRUCTION; STATE ANALYSIS

<678>
U.S. Dept. of Transportation
ADDRESS: Washington, DC
TITLE: U.S. Dept. of Transportation Piscal Year
1979 Budget in Brief

18 p.
1978, January
RETWORDS: BUDGETS; GOVERNMENT POLICIES;
TRANSPORTATION; TABLES (DATA); RAIL
TRANSPORTATION; RIGHMAY TRANSPORTATION; AIR
TRANSPORTATION; LEGISLATION; SAPETY; URBAN
TRANSPORTATION; RASS TRANSPORTATION

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7.S. Pept. of Transportation appress: Washington, DC 20590

TITLE: U.S. Department of Transportation. 10th Annual Report: Piscal Year 1976

Annual Report for Piscal Year 1976, 97 p. 1978

KEYWORDS: US DOT: TRANSPORTATION: TABLES (DATA):
WATEP TRANSPORTATION: HIGHWAY TRANSPORTATION:
RAIL TRANSPORTATION: HATERIALS: 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
REYWORDS: FUEL ECOMONY; HOTOR VERICLES; FUEL
COMSUMPTION; TESTING; TABLES (DATA);
AUTOMOBILE TRANSBISSIONS; URBAN
TRANSPORTATION; WEIGHT; SPEED LIMITS;
INTERSTATE TRANSPORTATION; HISTORY;
AUTOMOTIVE EMISSIONS; AUTOMOBILES; WEATHER;
DRIVING CYCLE

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U.S. Dept. of Transportation; U.S. Environmental Protection Agency
ADDRESS: Washington, DC
TITLE: Study of Potential for Hotor Vehicle Fuel Economy Improvement: Safety Implications Panel Report

Report No. 2, 45 p.
1975, January 10
KETWORDS: FUEL ECONOMI; WEIGHT; SPEED LIGITS;
SAPETT; AUTOMOBILES; TRANSPORTATION;
STATISTICS; TABLES (DATA); URBAN AREAS;
INJURIES; STATE ANALYSIS; HISTORY; SALES;
HAWUFACTORERS; RURAL AREAS; AUTOMOTIVE
ENGINES; TRAFFIC CONTROL; ACCIDENTS;
PERPORNANCE; DRIVING CYCLE

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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
KEYBORDS: FUEL ECOBOHY: HILEAGE; AUTOHOTIVE
BRISSIOWS: AIR QUALITY: DIESEL ENGINES:
TABLES (DATA): TRUCKS; FORECASTING; GROWTH;
HYDROCARBONS; CARBON HOOXIDE; NITROGEN
OXIDES; AUTOHOBELIES; HISTORY; GASOLINE;
HODELS; TRANSPORTATION

(679) U.S. Dept. of Transportation, Coast Guard ADDRESS: Washington, DC 20590 TITLE: Boating Statistics: 1977

Himeteenth annual report, Report No. CG-357, %1 p. 1978, Ray 1 RETRODOS: BOATS; SAFETT; ACCIDENTS; STATE ANALYSIS; TABLES (DATA) <680>
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U.S. Pept. of Transportation, Coast Guard ADDRESS: Washington, DC TITLE: Recreational Boating in the Continental United States in 1973 and 1976: The Wationwide Boating Survey

Report Fo. AD-A052907, CG-B-003-78, v.p.
1978, March
KEYWORDS: RECREATION: TRANSPORTATION; BOATS;
SAFETT: SURVEYS: QUESTIONNAIRES;
COMMUNICATION; EQUIPMENT; ACCIDENTS; WATER
TRANSPORTATION; HAPS; TABLES (DATA)
AVAILABILITY: NTIS

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U.S. Dept. of Transportation, Coast Guard, Harine 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 Mavigable Waters of the United
States

Final Report, 131 p.
1976, October
KEYWORDS: POLLUTION REGULATIONS; HARINE
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
RETWORDS: AVIATION FUELS; AIR TRANSPORTATION;
AIRCRAFT: TRAFFIC: REGULATIONS: FUEL
CONSUMPTION: TESTING: NOISE (SOUND); AIR
POLLUTION CONTROL EQUIPMENT: VELOCITY;
EQUIPMENT: FUEL ECONOMY; EFFICIENCY
AVAILABILITY: WIIS

<683> U.S. Oept. of Transportation, Pederal Aviation Administration, Office of Aviation Policy ADDRESS: Washington, DC 20591 TITLE: Aviation Porecasts - Fiscal Years 1978-1989

Report No. FAR-AVP-77-32, 169 p.
1977, September
RETFORDS: FORECASTING: AVIATION: STATISTICS:
AIRCRAPT: SOCIO-ECONOMIC FACTORS: COMMUTING:
ECONOMITIE RODDELS: AIR TRANSPORTATION:
PHOTOGRAPHS: REMIONAL ANALYSIS: REVENUE:
PASSENGER TRANSPORTATION: CARGO
TRANSPORTATION: TABLES (DATA): GRAPHS
(CHARTS): HATMEMATICAL HODELS: AIRPORTS

<684> U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy ADDRSS: Washington, DC 20591 TITLE: Terminal Area Porecast - 1978-1988 Report Ro. FAA-AVP-77-17, v.p. 1977, April 8 RETWORDS: PORECASTING; PASSENGER ENPLANEMENTS; AIRPORTS; MAPS; REGIONAL ANALYSIS; TABLES (DATA); GROWTH; AIR TRANSPORTATION; AVIATION AVAILABILITY; NTIS

<685> U.S. Dept. of Transportation, Pederal Aviation Adainistration, Office of Aviation Policy ADDRESS: Washington, DC 20591 TITLE: Third Annual PAA Forecast Conference Proceedings

Report No. PAA-AVP-78-7, proceedings of conference held in Reston, Virginia, December 1977, 68 p.
1978, June RETFORDS: FORECASTING; AIR TRANSPORTATION; FEDERAL AVIATION ADMINISTRATION; PLANNING; STATE GOVERNMENT; LOCAL GOVERNMENT; COMMUTERS; CONFERENCES

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U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy, Aviation Proceeds Branch
ADDRESS: Washington, DC 20591
FITLE: Profiles of International Passengers at U.S. Airports, 1976

Report No. PAA-AVP-77-27, 319 p.
1977, April
REYWORDS: AIRPORTS; INTERNATIONAL TRAVEL;
PASSENGER TRANSPORTATION; AIR TRANSPORTATION;
TABLES (DATA); GRAPHS (CHARTS); PASSENGER
ENPLANMENENTS; REGIONAL ANALYSIS

<687> U.S. Dept. of Transportation, Federal Aviation Administration, Office of Hanagement 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: HTIS

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U.S. Dept. of Transportation, Federal Highway Administration
ADDRESS: Washington, DC
TITLE: Highway Statistica, Susmary to 1975
Report No. PB-273520, PHWA-HP-HS-575, 294 p.
1977
RETEORDS: HIGHWAY TRANSPORTATION; STATISTICS;
HISTORY: HILLTRATION: PIWANCING: PRESS.

HISTORY: UTILIZATION: PINANCING: POBLS;
YBRICLES; LICENSING: AUTOHOBILE DRIVERS;
TAXES; STATE GOVERNMENT; VERICLE
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 Orban Transportation Planning: PLANPAC/BACKPAC. General Information Manual

450 p.
1977, April
RETWORDS: COMPUTER PROGRAMS; URBAN
TRANSPORTATION; PLANNING; IMPORMATION; LAND
USE; VERICLE TRIPS; TRAPPIC; SIMULATION;
TRAVEL; AIR QUALITY; BIBLIOGRAPHIES
AVAILABILITY: GPO, Stock No. 050-001-00125-0

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U.S. Dept. of Transportation, Federal Highway Administration
ADDRESS: Washington, DC
FITLE: Nationvide Personal Transportation Study: Transportation Characteristics of School Children

Report No. 4, 32 p.
1975, July
RETWORDS: TRANSPORTATION; TRAVEL; TRAVEL TIME;
MILEAGE; SCHOOLS; CHILDREN; BUSES (VERICLES);
BICTCLES; PUBLIC TRANSPORTATION; SURVEYS;
PASSENGER TRANSPORTATION; STATISTICS; TABLES
[DATA]; VEHICLE HILES TRAVELED; DISTANCE; AGE
GROOPS

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U.S. Dept. of Transportation, Federal Highway Administration
ADDRESS: Fashington, DC
TITLE: Fationvide Personal Transportation Study: wode of Transportation and Personal Characteristics of Tripmakers

Report No. 9, 49 p.
1973, November
REYWORDS: TRAVEL; PUBLIC TRANSPORTATION; NOTOR
VEHICLES; TRANSPORTATION HODE CHOICE;
PASSEGRE TRANSPORTATION; AGE GROUPS;
SURVEYS; CENSUS; AIR TRANSPORTATION; TRUCKS;
VEHICLE HILLES TRAVELED; DISTANCE;
SOCIO-ECONOMIC FACTORS; TABLES (DATA)
AVAILABILITY; GPO

<692> D.S. Dept. of Transportation, Pederal Highway Administration ADDRSS: Washington, DC TITLE: Highway Statistics: 1976

Report No. PHWA-HP-HS-76, 161 p.
1976
KETMORDS: HIGHWAYS; STATISTICS; HIGHWAY
TRANSPORTATION; VERICLES; LICENSES;
AUTOROTIVE FURLS: FUEL CONSURPTION; TAXES;
STATE GOVERNMENT; VERICLE REGISTRATIONS;
REVENUE; RATES (COSTS); TRAVEL; VELOCITY;
SPEED LINITS; FUNANCING; GOVERNMENT POLICIES;
ROADS: MILBAGE; 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 1976, March
KEYWORDS: RAIL TRANSPORTATION; PASSENGER
TRANSPORTATION; MORTHEASTERN 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.D.
1974
REYPORDS: RAIL TRANSPORTATION; RAILROADS;
ELECTRIC VERICLES; 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.
1972, January
KEYWORDS: AUTOMOTIVE PUBLS; FMEL ECOMONY;
REGULATIONS: PASSEMCER TRAMSPORTATION;
MATIONAL EMERGY PLAM: HAMUFACTURERS; EKERGY
CONSUMPTION; PETROLEUM; STANDARDS; RESERVCH
PROGRAMS; VERICLE HILES TRAVBLED; HILEAGL.
GOVERNMENT POLICIES; GASOLINE

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U.S. Dept. of Transportation, National Highway Traffic Safety Administration
ADDRESS: Washington, DC 20590
TITLE: Applicability of Federal Motor Vehicles
Standards to Electric and Hybrid Vehicles

Report No. DOT-HS-802611, 36 p.
1978, January
KEWHORDS: MOTOR VEHICLES; SAFETY; STANDARDS;
PERFORMANCE; ELECTRIC VEHICLES; PASSENGER
TRANSPORTATION; TESTING; ACCELERATION: HYBRID
ELECTRIC-POWERED VEHICLES; PUSES (VEHICLES);
TRUCKS; COSTS

<697> U.S. Dept. of Transportation, Mational Highway Traffic Safety Administration, Office of Passenger Vehicle Research, Technology Assessment Division ADDRESS: Washington, DC 20590 TITLE: Automotive Fuel Economy Contractors' Coordination Heeting: Susmary Report

Report No. DOT-RS-803362, Sussary Report of the Automotive Fuel Economy Research and Analysis Program Contractors' Coordination Heeting held in Washington, DC, April 24-26, 1978, 899 p.

1978
REYNORDS: FUEL ECONOMY: FUEL CONSUMPTION;
HEETINGS: STA HDARDS: TRANSPORTATION;
EFFICIENCY: RESEARCH PROGRAMS: DATA
COLLECTION; STATISTICS: TECHNOLOGY;
ENGINEERING: HANDFACTURING: HARRETING;
GOVERNMENT POLICIES: DISSEL ENGINES: SPARK
IGNATION BROINES: AUTONOTIVE TRANSMISSIONS;
CONSUMERS; HAINTENANCE; VEHICLES: TESTING;

61p.

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LUBBICABTS: DEHAND (SCONOMICS); ECONOMIC
MODELS: FORECASTING: TABLES (DATA); GRAPHS
(CHATTS): PHOTOGRAPHS: WEIGHT: COSTS;
ANTOMOTIVE INDUSTRY: BEHAVIOS: ENVIRONMENTAL
PROTECTION AGENCY

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U.S. Dept. of Transportation, Mational Highway Traffic Safety Administration, Technical Reference Division
ADDRESS: Washington, DC 20590
TITLE: Peel Economy ... & Subject Bibliography from Highway Safety Literature

Report No. PB-265387, DOT RS-802 147, v.p.
1977, January
KEYWORDS: BIELLOGRAPHIES; HIGHWAY TRANSPORTATION;
FUEL ECONOMY; ENERGY CONSERVATION;
PERFORMANCE; PASSENGEN TRANSPORTATION;
TROCKS; GASOLINE; FOEL CONSUMPTION;
AUTOMOTIVE EMISSIONS; GOVERNMENT POLICIES;
BEGULATIONS; ADTOHOBILES; ENGINES; SAPETY
AVAILABILITY: ETIS

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U.S. Dept. of Transportation, Office of the Secretary
ADDRESS: Washington, DC
TITLE: The Status of the Mation'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 Cossittee Print No. 95-29, 483 p. 1977, September
SPONSOR: U.S. House of Representatives, Consittee on Public Works and Transportation
RETWORDS: RIGHWAYS; TRAVEL: PERFORMANCE;
INVESTMENTS: REGIONAL REALISTS: FORECASTING;
TABLES (DATA); GRAPHS (CHARTS)

(700) U.S. Dept. of Transportation, Office of the Secretary ADDRESS: Washington, DC TITLE: 1978 Mational Transportation Study. Manual I: General Information

Report No. OHB-04-5-72004, 66 p.
1972, May
RETURE DS: TRANSPORTATION; STATE ANALYSIS;
SUPVETS; PLANNING; ORGANIZATIONS; STATE
GOVERNMENT: AIMPORTS; RIGHNAIS;
TPANSPORTATION SISTEMS; GOVERNMENT POLICIES;
EPPICIENCT; SAPETT; ENVIRONMENTAL IMPACT;
TABLES (DATA)

<701>
U.S. Dept. of Transportation, Office of Transportation Plansing Analysis
ADDRESS: Washington, DC
TITLE: Catalog of Tabulations: 1974 Mational Transportation Study

T.P.
1975, Pebruary
RETWORDS: TRANSPORTATION; STATE ANALYSIS; TABLES
(DATA); UPBAN TRANSPORTATION; CAPITAL COSTS;
GROUTH: RIGHWAYS; BUSES (VEHICLES); AIRPORTS;
PAIL TRANSPORTATION; CONHUTERS; VEHICLE HILES

<702> U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office ADDRESS: Kendall Square, Cambridge, HA 02142 FITLE: Bural Passenger Transportation: State-of-the-Art Overview

V-P.
1976, October
RETORDS: ELDERLY; RURAL TRANSPORTATION;
PASSENGER TRANSPORTATION; POVERTY; BURAL
AREAS; POPULATION (STATISTICS); OWNERSHIP;
TABLES (DATA); SOCIO-ECOMONIC FACTORS;
REGIONAL ANALYSIS; PUBLIC TRANSPORTATION;
AUTOHOBILES; HOBILITY; TRANSPORTATION
SYSTEMS; TRANSPORTATION DISADVANTAGED; STATE
AWALYSIS

<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 Hass
Transportation Administration
KEYWORDS: LIGHT RAIL TRANSIT; PASSENGER
TRANSPORTATION; URBAN TRANSPORTATION;
COMPARATIVE EVALUATIONS; REGIONAL AWALYSIS;
CANADA; RIGHT-OF-WAY; TABLES (DATA); HAPS

U.S. Dept. of Transportation, Transportation
Systems Center, Technology Sharing Program
Office
ADDRESS: Kendall Square, Cambridge, HA 02142
TITLE: Rural Passenger Transportation Primer

Selected Transportation Topics, 70 p.
1977, January
SPOMSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R & D Policy
KEYWORDS: RURAL TRANSPORTATION; REGIONAL
ANALYSIS: POVERTY: HIMMESOTA: SOUTH CAROLIMA;
PASSENGER TRANSPORTATION; PLANMING;
PENHSTLYANIA; ELDERLY; BIBLIOGRAPHIES; STATE
ANALYSIS: TRANSPORTATION DISADVANTAGED

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U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office ADDRESS: Rendall Square, Cambridge, NA 02142 TITLE: Hini-bus Profile

Selected Transportation Topics, 41 p.
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R 8 D Policy
KEYWORDS: BUSES (VERICLES): PASSENGER
TRANSPORTATION: EMGINES: TABLES (DATA):
DESIGN: ELECTRIC VEHICLES: DIRECTORIES:
HARDFACTURERS: FUEL CONSUMPTION: PERFORMANCE

<706> 0.5. Dept. of Transportation, Transportation Systems Center, Transportation Information Division ADDPASS: Kendall Square, Cambridge, MA 02142 TITUS: Transportation Safety Information Report: October, Howenber, and December 1977 and Annual Summary

Quarterly Report, Report No. HTISUB/C/224-004, DOT-TSC-924-77-4, 113 p.

DOT-TSC-P20-77-0, 113 p.
1978, March
SPCHSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans, and
International Affairs
REFFORDS: TRANSPORTATION: SAFETY: ACCIDENTS:
TRUDRIES: GRAPES (CHARTS); TABLES (DATA)
AVAILABILITY: BTIS

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T.S. Dept. of Transportation, Transportation Systems Center, Transportation Information Divison
ADDRESS: Kendall Square, Cambridge, NA 02142
TITLE: Profiles of Scheduled Air Carrier
Passenger Traffic for Top 100 U.S. Airports,
August 6, 1976

Report No. FAR-AVP-77-30, 207 p.
1977, July
SPONSOR: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy, Aviation Forecast Branch
KETWORDS: AIR TRANSPORTATION: AIRCRAFT: TRAFFIC;
PASSENGER TRANSPORTATION; AIRPORTS: TABLES
("ATA); GRAPHS (CHARTS); PASSENGER
E-PLAWEMENTS: SERVICES

<708>
U.S. Dept. of Transportation, Urban Hass
Transportation Administration
ADDRESS: Washington, DC 20590
TITLE: Wrban Hass Transportation Act of 1964 and
Related Laws, as Amended Through Pebruary 5,
1976

131 p.
KEYWORDS: URBAN TRANSPORTATION; HASS
TRANSPORTATION; LEGISLATION; GOVERNMENT
POLICIES; REGULATIONS
AVAILABILITY: GPO, Stock No.
050-014-00007-0/Catalog No. TD 7.5:UR1/3

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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 Shacing Program Office
ADDRESS: DOT/UHTA, Trans Point Building, 2100 2nd
Street SW, Washington, DC 20590; DOT/TSC,
Rendall Square, Cambridge, MA 02102
TITLE: People Rover Profiles

35 p.
1977, Hay
KETFORDS: PASSENGER TRANSPORTATION; URBAN AREAS;
PHOTOGRAPHS; DERONSTRATION; OPERATION;
PERFORMANCE: AUTORATED GUIDENAY TRANSIT

<710> C710>
U.S. Dept. of Transportation, Urban Hass
Transportation Administration, Policy and
Program Development, Office of Program
Evaluation
ADDRESS: Washington, DC 20590
TITLE: The URTH Rail Modernization Program. The
Distribution of Capital Grant Funds for Rail
Rehabilitation and Modernization, 1965-1977

1976, July
REFEORDS: BAIL TRANSPORTATION; CAPITAL COSTS;
EMERGY CONSUMPTION; RAPID TRANSIT SYSTEMS;
GROWTH; GOVERNMENT POLICIES; REGIONAL
ANALYSIS; US DOT; HAINTENANCE; RETROPITTING;
HODERSIZATION; OPERATING COSTS; EMPLOYMENT;
PASSENGER TRANSPORTATION; COMMUTERS; TABLES
(DATA); PAILROADS; FUNDING

(711) <717)</p>
U.S. Environmental Protection Agency, Emission Control Technology Division, Standards U.S. Environmental Protection Agency, Emission
Control Technology Division, Standards
Development and Support Branch
ADDRESS: Ann Arbor, HI 48105
TITLE: The Effect of Dynamometer Inertia
Increment and Power Setting on Emissions and
Fuel Economy for Hotorcycles. Technical
Support Report for Regulatory Action

Report No. PB-270721, NC 75-03, 13 p.
1975, August
RETWORDS: HOTORCYCLES; DYNAHOHETERS; EMISSIONS;
PUEL CONSUMPTION; TABLES (DATA); FUEL
ECONOMY; TESTING; HOMENT OF INERTIA; WEIGHT
AVAILABILITY: WIIS

(712) U.S. Environmental Protection Agency, Emission Control Technology Division, Standards Development and Support Branch ADDRESS: Ann Arbor, HI #88105 TITLE: Motorcycle Usage. Technical Support Report for Regulatory Action

Report No. PB-270710, NC 76-02, 15 p.
1976, January
KBYWORDS: SURVEIS; UTILIZATION; HOTORCYCLES;
SIZE; TRANSPORTATION; EMISSIONS; CONMUTING;
VEHICLE TRIPS; VELOCITY; TABLES (DATA);
INFORMATION NEEDS
AVAILABILITY: HIS

<713>
T.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
KRYWORDS: BICYCLES: AIR POLLUTION: ENVIRONMENTAL PROTECTION AGENCY; CONHUNITY 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 Consittee Print, 95th Congress, 1st Session, Hearings on H.R. 4263, held Harch 28, 29, April 5, 6, 18, and 19, 1977, 940 p.

<714> <714> CONT. REYWORDS: US DOE; REARINGS; EMERGY POLICY;

<7.15> U.S. International Trade Commission ADDWESS: Washington, DC 20436 TITLE: Automotive Trade Statistics, 1964-76

Series B, USITC Publication No. 839, 103 p.
1977, October
KFTWORDS: AUTOROBILES: STATISTICS: TABLES (DATA);
INTERNATIONAL TRADE: IMPORTS: SALES: EXPORTS:
CONSUMPTION: PRICES: VEHICLE REGISTRATIONS

<716> U.S. Senate, Committee on Energy and Matural Resources ADDRESS: Washington, DC FITLE: Foonomic 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
REFFORDS: ECOMONIC IMPACT; EMERGY POLICY;
MATIONAL EMERGY PLAN: TAXES; GASOLINE; PUEL
ECOMONY; TRANSPORTATION; THERNAL INSULATION;
EMERGY COMSENVATION; IMPUSTRIAL SECTOR;
UTILITIES; PEICES; PETROLEON; NATURAL GAS;
COAL; RESEARCH; MUCLEAR EMERGY; MUCLEAR
PEACTOR SAFETY; SOLAR EMERGY

<717>
U.S. Senate, Consittee on Energy and Matural Resources: Pederal Energy Administration ADDPESS: Washington, DC TITLE: Pegulation of Domestic Crude Oil Prices

Publication No. 95-8, 95th Congress, 1st Session, Publication No. 95-8, 95th Congress, 1st Session, 233 p.
1977, March
REWORDS: REGULATIONS; PETROLEUM; PRICES;
ECONOMIC IMPACT; SUPPLY (ECONOMICS);
PRODUCTION: TABLES (DATA): GRAPHS (CHARTS);
LEGISLATION; GOVERNEET POLICIES
AVAILABILITY: U.S. Senate Committee on Energy and Natural Resources

<718>
U.S. Senate, Consittee 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

Congresional Consittee Print, 95th Congress, 1st Sassion, Serial No. 95-102, hearings held July 25, 26 and August 1, 1977, 748 p. 1978

RETWORDS: AUTOROBILES: WATIOWAL EMERGY PLAN; OPROS: AUTOHODILES; WATLOWAL EMBROY PLAN; BWARFOY COUSEWWAITON; TRANSPORTATION; GOVERNMENT POLICIES; EQUIPMENT; EFFICIERCY; STANDARDS; RESIDENTIAL SECTOR; SPACE HEATING; ELECTRIC HOTORS; ELECTRIC POWER DEHAND; TURBACES; EMBROY CONSUMPTION; DEVERAGES; FUEL ECONOMY; TRUCKS; TABLES (DATA)

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G.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

KEYWORDS: EMERGY COMSERVATION; GOVERNMENT WORDS: EMERGY COMSERVATION: GOVERNMENT
POLICIES: EMERGY SHORTAGES; IMPORTS;
PETROLEUM; EMERGY RESOURCES; EMERGY
COMSUMPTION; INDUSTRIAL SECTOR;
TRANSPORTATION; SOLAR EMERGY; PRICES; IMCOME;
EMERGY SUPPLIES; RESIDENTIAL SECTOR;
RETROFITTING; BULLDIMES; APPLIANCES; GRAPHS
(CHARTS); COSTS; COGEMERATION; ELECTRIC
POWER; TABLES (DATA); PERFORMANCE; STANDARDS;
AUTOHOBILES; 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
RETWORDS: DIESEL FUELS; GASOLINE; PWERGY
CONSERVATION; US DEPT OF COMMERCE; GOVERNMENT
POLICIES; TRUCKS; TRANSPORTATION; POOD
INDUSTRY; CONSUMERS; MANUFACTURERS;
DISTRIBUTION; FUEL COMSUMPTION; LEGISLATION;
CARGO TRANSPORTATION

<721> N.S. Senate, Committee on Governmental Affairs ADDRESS: Washington, DC TITLE: Department of Energy Organization Act

Congressional Committee Print, Report Ro. 95-164 to accompany 5.826, 95th Congress, 1st Session, 125 p.

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KETWORDS: US DOE: LEGISLATION: EMERGY POLICY;
GOVERNMENT POLICIES: US PEA; US ERDA: PEDERAL
POWER COMMISSION; EMERGY COMSERVATION;
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, 1-, 16, 17, 18, 22, 24, 25, 29, 31 and April 8, 1977, 1322 p.

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KETHORDS: US DOE; EMERGY POLICY; LEGISLATION;
GOVERNMENT POLICIES; HEARINGS
AVAILABILITY: GPO

<723> U.S. Travel Data Center

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ADDRESS: Suite 450, 1100 Connecticut Ave. HW, Pashington, DC 20036
TITLE: 1976 National Travel Survey: Full Year Report

1977
KEYWORDS: TRAVEL; SURVEYS; TABLES (DATA);
TOURISH; AUTOROBILES; TRUCKS; AIR
TRANSPORTATION; REGIONAL ANALYSIS; VENICLE
TRIPS
AVAILABILITY: \$20.00

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U.S. Travel Data Center
ADDRESS: Suite 410, 1100 Connecticut Avenue NW,
Washington, DC 200 16
TITLF: Proceedings: 1978 Travel Outlook Forus

Proceedings of conterence held Washington Hilton Hotel, Washington, D.C., December 1, 1977, 171 p.

1978
SPONSOR: Travel Research Association
RFYMORDS: TRANSPORTATION: TRAVEL: RMRRGY POLICY;
PIEL CONSUMPTION: EMERGY CONSUMPTION:
PATIONAL EMERGY PLAN: GRAPHS (CHARTS):
TOURIST: ECONOMIC ASSLISS: INTERNATIONAL
TRAVEL: ALF TRANSPORTATION: RECREATIONAL
TRAVEL: AUTOMOBILES: BUSES (VEHICLES): RAIL
TRANSPORTATION: NOTELS: TARLES (DATA)
AVAILABILITY: \$25,00

<7250 T.S. Travel Data Center Appress: 1100 Connecticut Ave. NW, Washington, DC 20036 TITLE: Survey of State Travel Offices: 1977-1978 Annual Peport, 82 p. 1977, October 31 REFYORDS: TRAVEL: TOURISM: STATE ANALYSIS; PUBLIC RELATIONS

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n.S. Travel Data Center
ADDRESS: Membington, DC 20036
TITLE: 1976 Mational Travel Expenditure Study:
Summary Report

178 p.
1977, December 15
REPRORMS: TRAVEL; EXPENDITURES; AUTOMORILES;
TRUCKS; ARE TRANSPORTATION; VERICLE TRIDS;
STATISTICS; MOTELS; PUBLIC TRANSPORTATION;
TANIFS (DATA); POOD; WEEKEND TRAVEL;
SOCIO-RECORDIC PACTORS; PRINCLE MILES
TRAVELED; BUSES (VEHICLES); RAIL
TWANSPORTATION
AVAILABILITY: \$25,00

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T.S. Travel Data Center
RDDTRSS: 1100 Connecticut Avenue NV, Vashington DC 20036
TITLE: The Impact of Travel on State Economies: 1976

56 p.
1978
RRYWORDS; TODRISH; TRAVEL; STATE ANALYSIS;
VRHICLE HILFS TRAVELED; EXPREDITHERS;
AUTOMORILES; PORLIC TRANSPORTATION; FOOD;
RRYERUF; HOTELS; PRPLOTRENT; STATISTICS;

TABLES (DATA); PAYROLLS; ECONORIC INPACT AVAILABILITY: \$15.00

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Uirichson, D.L.
Iowa State University, Dept. of Science and
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ADDRESS: Ames, IA 50011
TITLE: Pleet Test of Re-Refined Oil. First
 Annual Progress Report

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1977, Nay
SPONSOR: Energy Research and Development
Administration
KETWORDS: LUBRICATING CILS; PFTROLEUM PRODUCTS;
TESTING; PERPORBANCE; AUTOMORTLES; TRUCRS;
AUTOMOTIVE PLENTS; TRANSPORTATION;
COMPARATIVE EVALUATIONS; TABLES (DATA); OILS;
PRINCLEIN REPINING
AVAILABILITY: MIS

Underhill, B.; Gott, P.; Hurter, D.; Hathews, H.;

Metcalf, B.; Micol, J.; Parry, J.; Stratton,
L.; Strong, S.; Dullivan, D.; Teeters, P.;

Whittier, A.

Little (Arthur D.) Inc.

ADDRESS: 25 Acorn Park, Cambridge, HA 02180

TITLE: Recommended Performance Standards for

Electric and Hybrid Vehicles

Report No. SAM/1335-1, 164 p.
1977, September
SPONSOR: Energy Remearch and Development
Administration, Division of Transportation
Energy Conservation
REYWORDS: ELECTRIC VEHICLES: HYBRID
REKCTRIC-POWERED VEHICLES: PREFORMANCE:
STANDARDS; RESBARCH: QUESTIONNAIRFS; SURVEYS;
TABLES (DATA): GRAPHS (CHARTS)

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Union College, Graduate Studies and Continuing Education
ADDRESS: Schenectady, NT 12308
TITLE: Fourth National Conference on the "Rffects of Knergy Constraints on Transportation Systems"

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

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SPONSOR: Energy Research and Development
Administration, Divinion of Transportation
Energy Conservation
REYBORDS: TRANSPORTATION; COMPRENCES; RMERGY
SHORTAGES; PLANNING; RFFICIENCY; INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
INTRACITY TRANSPORTATION; RAIL
TRANSPORTATION; GOVERNMENT POLICIFS; RLECTRIC
VENICLES; RESEARCH; ENERGY CONSUMPTION

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Hanewehr, L.R.; Rnoop, C.W.
Ford Motor Co., Ford Research Staff
TITLE: Riectrical Component Modeling and Sixing
for RV Simulation

Paper No. 780215, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Hichigan, <731>
<731> CONT.
 Pebruary 27 - Harch 3, 1978, 13 p.
1978
RETWORDS: BLECTRIC VEHICLES; HODELS; PERFORMANCE;
 ELECTRIC VEHICLE RANGE; DRIVING CYCLE;
 BATTERIES; SIEE; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Varrendale, PA
15096 \$2.50

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Urban Consortius for Technology Initiatives,
Transportation Task Force; Public Technology
Inc.
ADDRESS: PTI, 1140 Connecticut Ave EW,
Washington, DC 20036
TITLE: Urban Goods Hovesent
Information Bulletin, 22 p.

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1978, Pebruary
SPONSOR: U.S. Dept. of Transportation
KEYWORDS: COHNODITIES; CARGO TRANSPORTATION;
TRUCKS; BALIKOADS; LOCAL GOVERNMENT; URBAN
AREAS; TRAFFIC; INSTITUTIONAL FACTORS;
PLANNING
AVAILABILITY: HTIS

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.
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SPOMSOR: U.S. Dept. of Transportation

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SPOUSOR: U.S. Dept. of Transportation
KETFORDS: SCHEDULING: COMBUTING: WORK: WORKING
COMDITIONS: RESEARCH: DEMONSTRATION:
DIRECTORIES: TRAFFIC: TRANSPORTATION
AVAILABILITY: HTIS

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Orban Consortium for Technology Initiatives,
Transportation Task Porce: Public Technology
Inc.
ADDRESS: PTI, 1140 Connecticut Ave. HW,
Washington, DC 20036
TITLE: Asphalt Improvements
Information Bulletin, 29 p.

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SPOMSOR: U.S. Dept. of Transportation
RETWORDS: HIGHWAYS; CONSTRUCTION; ASPHALTS;
CONCRETES; RECYCLING; ADDITIVES

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Trban 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,
Flanning Division; U.S. Dept. of
Transportation, Pedertl Righway Administration
KSTOORDS: TRAPPIC COUNT: VERICLS RILES TRAVELED;
AUTOROSILE OCCUPANCY: SEASOWAL VARIATIONS:
TRUCKS; WSIGHT; AUTOROSILES: RRODE ISLAND;
REASURING INSTRUMENTS; COMPUTER PROGRAMS;
RIGHATS
AVAILABILITY: Rhode Island Dept. of
Transportation, Flanning Division, State

Office Building, Providence, RI 02903

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Vaaler, L.E.; Brocean, E.V.
Battelle Columbus Laboratories
ADDRESS: Columbus, OR
TITLE: Mathematical Hodel for the Design of Grids
for Electric Vehicle Batteries

Paper No. 780221, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Hichigan, February 27 - Harch 3, 1978, 12 p. 1978 REYNORDS: ELECTRIC VEHICLES; LEAD-ACID BATTERIES; HODELS; PERFORMANCE; DESIGN; TABLES (DATA) AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Varrendale, PA 15096 \$2.50

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1976, June
SPONSOR: Rational Aeronautics and Space Administration, Ames Research Center REPRORDS: BMBERT COST ANALYSIS; EMBREY CONSUMPTION; EMBRGY CONSERVATION; AIR TRANSPORTATION; PASSENGER TRANSPORTATION; ECONORIC ANALYSIS; OPERATING COSTS; HARRET; TABLES (DATA); GRAPHS (CRRTS); DESIGN; FUEL COMSUMPTION; COMPARATIVE EVALUATIONS; PROPITS RVAILABILITY; MTIS

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van Giessel, R.; Reinink, P.
R.v. Philips' Gloeilanpenfabrieken
ADDRESS: Germany
TITLE: Design of the 4-215 D.A. Automotive
Stirling Engine

Paper No. 770082, presented at the Society of Automotive Engineers' International Automotive Congress and Exposition, Cobo Mail, Detroit, Michigan, February 28-March 4, 1977, 16 p.

1977
SPONSOR: Society of Automotive Engineers
RETWORDS: STIRLING ENGINES: PERFORMANCE: FUEL
BCONGNI; DESIGN: DIAGRAMS; GRAPHS (CHARTS);
PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers
Inc., 800 Commonwealth Drive, Varrendele, PA
15096

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Yelona, W.D.
U.S. Dept. of Transportation, Office of Systems
Analysis and Information, Strategic Planning
Division
ADDRESS! Washington, DC 20590
FITCH: The Bole of Travel Time Limits in Urban
Growth (A Postulated Orban Area Definition)

1973. April

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<739> CORT. (7.59) LUNT: REYMORDS: DRBAN AREAS; GROWTH; TRAVEL; URBAN TRANSPORTATION; PLANNING; TRANSPORTATION

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Yeziroglu, T.N. (ed.)
Yiaai, University of, School of Engineering and Environmental Design; Hiami University, Clean Energy Pessarch 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, Plorida, v.p.

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SPORSOR: Energy Research and Development Aministration: Miami, University of, School of Continuing Studies
KETWORDS: HYDROGEN: CONFERENCES: HYDROGEN PRODUCTION: NUCLEAR REMERGY: SOLAR ENERGY: COAL: THERMOCHEMICAL PROCESSES: GRAPHS (CHAPTS): ELECTROLISIS: TRANSISION: HYDROGEN STORAGF: VERTICLES: ALTERNATE FUELS: TRANSPORTATION: HYDRIDES: HATERIALS: OTILIZATION: AIRCRAFT: AUTOMOBILES: INDUSTRIAL SECTOR: ECONOMICS
AVAILABILITY: School of Continuing Studies, P.O. Box 248005, University of Miami, Coral Gables, PL 33124 S75.00 (while the supply lasts)

Voltz, S.B.; Wise, J.J.
Wobil Research and Development Corp.
ADDRFSS: Paulsboro, BJ 08066
TITLE: Development Studies on Conversion of
Rethanol and Related Cxygenates to Gasoline

Pinal Report, Report No. FE-1773-25, 336 p.
1976, November
SPONSOR: Energy Research and Development
Administration
RYTHORDS: HETHANOL: GASOLINE: CONVERSION:
ECONONICS: TECHNOLOGY; PLUIDIZED BED
PROCESSORS: TABLES (DATA): GRAPHS (CHARTS):
ALTERNATE FUELS: SYNTHETIC PUELS
AVAILABILITY: HTIS

<742> Yoorhees (Alan H.) and Associates Inc. ADDRESS: McLean, VA 22101 TITLE: Pactors and Trends in Trip Length

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1968
SPONSOR: American Association of State Highway Officials; U.S. Bureau of Public Roads; National Academy of Sciences, Bational Research Council, Highway Research Board KEYWORDS: VEHICLE TRIPS; TRAFFIC; URBAN AREAS; LAND USE; URBAN TRANSPORTATION; TRANSPORTATION SYSTEMS; SOCIO-ECONORIC PACTORS; PLANNING; PORECASTING; REASUREMENT; TRAVEL; MODELS; INCOME; GRAPHS (CHARTS); TABLES (DATA); TRUCKS; COMPUTENCES SHOULATION; POPULATION (STATISTICS); ERPLOYMENT AVAILABILITY: Mational Academy of Sciences, Highway Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$3.20

Yoorhees (Alan H.) and Associates Inc. ADDRESS: 7798 Old Springhouse Rd., Westgate Research Park, McLean, VA 22101 TITLE: Study of Future Paratransit Pequirements Report No. PB-264082, URTA-IT-06-0104-77-2, 266 p. 1977, January SPONSOR: U.S. Dept. of Transportation, Urban Hass Transportation Administration
KEYWORDS: FORECASTING: PARATRANSIT: URBAW AREAS;
LEGAL ASPECTS: EMERGY CONSUMPTION: COSTS;

AUTOHOBILES; EBERGI CONSUMPTION; COSTS; AUTOHOBILES; VEHICLES; HASS TRANSPORTATION; CONRUTERS; VAMPOOLS; COMPARATIVE EVALUATIONS; TABLES (DATA) AVAILABILITY: NTIS

(744) Wagner, J.R.; Waughton, J.; Brooks, W.P.; Davis,

R.
Brookhaven National Laboratory, National Center
for Analysis of Energy Systems
ADDRESS: Opton, NY
fITLE: Light Duty Highway Fleets: The Potential
for Alternative Technologies in Fleets
Operated by Corporations and State and Local

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

Data, "Report No. BNL-50904
1978, March 3
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYNORDS: AUTOHOTIVE PLEETS; HODELS; FORECASTING;
HARKET; VEHICLE REGISTRATIONS; AUTOHOBILES;
HIBRID BLECTRIC-POWERED VEHICLES; PURCHASING;
WEIGHT; EQUIPMENT; TRUCKS; HIGHWAY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CAPACITY; DISSEL PUBLS; AUTOHOTIVE ENGINES;
STREY TRANSPORTATION; SIZE; TABLES (DATA)

<745> Wakefield, E.H. TITLE: The Consumer's Blectric Car

136 p. 1977 1977
KEYWORDS: ELECTRIC VEHICLES; AUTOMOBILES; DESIGN;
FORECASTING; BEGULATIONS; ECONORICS;
EFFICIENCT; COMPARATIVE EVALUATIONS;
TECHNOLOGY; BATTERIES; OPERATION; COMTROL;
DIAGRAMS; GRAPHS (CHARTS)
AVAILABILITY: Ann Arbor Science Publishers Inc.,
230 Collingwood, 7.0. Box 1425, Ann Arbor, RI
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-Bile Energy Consumption and
Costs for Suburban Commuter Service Diesel

Report No. PB-242232, URTA-TL-11-0006-74-1, 59 p. Report No. PR-242232, URTA-IL-11-0006-74-1, 59 p.
1974, August
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration
RETWORDS: EMERGY COMSUMPPION; DIESEL ENGINES;
RAIL TRANSPORTATION; COMMUTING; COSTS;
POLLUTION; SERVICES; AUTOROBILES; COMPARATIVE
EVALUATIONS; CHICAGO
AVAILABILITY: HTIS <747>
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Walderhaug, A.J.
U.S. Dept. of Commerce, Bureau of Economic
 Abalysis
ADDRESS: Washington, DC 20230
FITLE: Revised Input-Output Tables for the United
 States: 1967

Report No. PB-270259, BEA-SP 77-029, 64 p.
1977, June
REYWORDS: IMPUT-OUTPUT AWALYSIS: IMDUSTRIES;
DEHAND (ECONOMICS); SUPPLY (ECONOMICS);
PRODUCTION: SALES: PRICES: INVENTORIES;
COSTS: CONSUMERS: STATISTICS; TABLES (DATA);
INDUSTRIAL SECTOR; COMMERCIAL SECTOR;
RESIDENTIAL SECTOR; IMPORTS; TRANSPORTATION
AVAILABILITY: NTIS

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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, Hichigan, February 27 - March 3, 1978, 12 p.

1978
RETWORDS: FUEL ECONOMY; HAINTENANCE; AUTOMOTIVE PHISSIONS: AUTOMOBILES; REPAIR: AUTOMOBILE DRIVERS: TESTING; FUEL COMSUMPTION: AUTOMOTIVE ENGINES; HILEAGE; 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
Wehicle

Report No. N76-15376, NASA TT-F-16817, 33 p.; translated from Elektrotechnische Zeitschrift Ausgabe, 94(11), 622-631 1975, December KEYWORDS: ELECTRIC VEHICLES; HATHEHATICS; BATTERIES; HECHABICS AVAILABILITY: WTIS

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Portisth Edition, 126 p.
1978
REYWORDS: AUTOHOTIVE INDUSTRY; INTERNATIONAL
TRADE; RECREATION VEHICLES; DIRECTORIES;
VEHICLES; RATERIALS; PRODUCTION; SALES;
TIRES; CONSTRUCTION; EQUIPMENT; AGRICULTURAL
EQUIPMENT; INFORMATION; VERICLE REGISTRATIONS
AVAILABILITY: \$35.00

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Warner, P.
Ogle (David) Ltd.
ADDRESS: United Ringdon
TITLE: A Purpose-Built Electric Taxi

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Watts, W.W.
Argonne Mational 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; HASS TRANSPORTATION; BAIL
TRANSPORTATION; BENEFIT COST ANALYSIS;
DECISION HAKING; LAND USE; TRANSPORTATION
SISTERS; 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 Pnergy Storage
Systems
ADDRESS: Washington, DC
TITLE: Battery and Electrochemical Systems
Program Summary: FY 1977

Report No. DOE/ET-0014, v.p.
1978, April
KEYWORDS: EMERGY STORAGE; BATTERIES; FUNDING;
RESEARCH PROGRAMS; UTILIZATION;
ELECTROCHEMICAL CELLS

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Weigel, W.
Scitran
ADDRESS: Box 5456, Santa Berbara, CA 93108
TITLE: Driving Cycles for Electric Orban Vehicles
and Hethods for Obtaining Them

Report No. 876-15375, WASA TT 7-16822, 16 p.; translated from Elecktrotechnische Zeitschrift Ausgabe, 94(3), 142-146 1975, December RETWORDS: ELECTRIC VEHICLES; SIMULATION; TABLES (DATA); URBAN TRANSPORTATION; TESTING AVAILABILITY: WIIS

<755> Weimer, G.A. FITLE: Haterials are the Key in Auto Weight Watching

Iron Age, 218(19), 33-39
1976, November 8
KETHORDS: AUTOHOTIVE IMPOSTRY; HATERIALS; WEIGHT;
PLASTICS: AUTOHOTIVE ENGINEERING;
PERFORMANCE: STEELS: FUEL ECONOMY; CORROSION;
PROCESSING; HARUFACTURING; ALURINUM

<756> Weiner, R. 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
KETWORDS: TRANSPORTATION SYSTEMS; SURVEYS; URBAN
AREAS: PLANNING; CAPITAL COSTS; HIGHWAYS;
PUBLIC TRANSPORTATION; REVENUE; URBAN
TRANSPORTATION; OPERATING COSTS

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Reiner, E.; Poole, B.
U.S. Dept. of Transportation, Assistant Secretary of Transportation Planning Analysis,
Evaluation and Planning Analysis Division,
Wrban Analysis Program
ADBRESS: 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

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Wheeler, P.K.
U.S. Congress, Congressional Budget Office,
Ratural Resources and Commerce Division
ADDRESS: Washington, DC
TITLE: Realroad Reorganization: Congressional
Action and Pederal Expenditures Related to
the Final System Plan of the U.S. Railway
Association

Background Paper No. 2, 58 p.
1976, January 15
RETWORDS: RAIL TRANSPORTATION; GOVERNMENT
POLICIES: EXPENDITURES: BUDGETS; PLANNING;
FUNDING: ECONOMICS: LEGISLATION
AVAILABILITY: GPO \$1.60

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White, K.E.
Excon Enterprises Inc.
TITLE: A Digital Computer Program for Simulating
Electric Vehicle Performance

Paper No. 780216, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Hichigan, Pebruary 27 - March 3, 1978, 16 p.

1978
RETWORDS: BLECTRIC VEHICLES; COMPUTERIZED
SIMULATION; COMPUTER PROGRAMS; MODELS;
DESIGN; AUTOMOTIVE CONTROL SYSTEMS;
PERFORMANCE; BATTERIES; DRIVING CYCLE; GRAPHS

(CHAPTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendele, PA
15096 \$2.50

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White, S.B.; Clayton, C.A.; Bressler, L.D.;
Stewart, J.R.

Research Triangle Institute; Worth Carolina, University of, Highway Safety Research Center ADDRESS: RTI, P.O. Box 12194, Research Triangle Park, MC 27709 TITLE: Improved Exposure Heasurements

Report No. RTI 252U-760, v.p.

1975, September 30

SPONSOR: U.S. Dept. of Transportation, National Highway Traffic Safety Administration
REYMORDS: VEHICLE HILES TRAVELED: ACCIDENTS;
SAFETY: AUTOHOBILE DRIVERS; RISKS; HIGHWAYS; MORTH CAROLINA; URBAN AREAS; RURAL AREAS;
TABLES (DATA); POPULATION (STATISTICS); AGE GROUPS; OWNERSHIP; VEHICLE REGISTRATIONS;
QUESTIONNAIRES; SEX; STATE ANALYSIS

<761>
Wilburn, H.C. (ed.)
Wational Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation and Land Development Policy

Transporation Research Record 565, 10 papers prepared for the 54th Annual Meeting of the Transportation Research Foard, 75 p. 1976 KETWORDS: TRANSPORTATION SYSTEMS; LAND USE; LAND DEVELOPMENT; GOVERNMENT POLICIES; PLANNING;

REYWORDS: TRANSPORTATION SYSTEMS; LAND USE; LAND DEVELOPMENT; GOVERNMENT POLICIES; PLANNING; SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL IMPACT; HIGHWAYS: UPBAN AREAS; SUBURBAN AREAS AVAILABILITY: \$6.00

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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
REYWORDS: BAY AREA RAPID TRANSIT SYSTEM;
COMSTRUCTION; INPUT-OUTPUT AWALYSIS; SYSTEMS
AWALYSIS; EMERGY 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, Bichigan, February 23-27, 1976, 5 p. 1976

1976
SPONSOR: Society of Automotive Engineers
KEYWORDS: TABLES (DATA); ELECTRIC VEHICLES;
BATTERIES; FUEL CELLS; GASOLINE; ENGINES;
EMERGY CONSUMPTION; COFSTRUCTION; COMPARATIVE
EVALUATIONS; INTERNAL COMBUSTION ENGINES
AVAILABILITI: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<764>
Williams, L.J.
Wational Aeronautics and Space Administration,
Ames Research Center
ADDRESS: Hoffett Field, CA 94035
TITLE: Air Transportation Energy Efficiency

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Paper presented at the Fourth Mational Conference on the "Effects of Energy Constraints on Transportation Systems," held at Union College, Schemectady, New York, on August 1-5, 1977, 46 p.

SPONSOR: Energy Research and Development
Administration
RETWORDS: AIR TRANSPORTATION; EFFICIENCY; ENERGY
CONSUMPTION; MASA; AIRCRAFT; GRAPHS (CHARTS);
FTEL CONSUMPTION

<765> Wilson, C. L. Walson, C.L.
Rassachusetts Institute of Technology, Workshop
on Alternative Energy Strategies (WAES)
ADDRESS: Cambridge, MA 02139
TITLE: Energy: Global Prospects 1985-2000 Report of the Workshop on Alternative Energy Strategies (WAES), 291 p. 1977
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