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TRANSPORTATION ENERGY CONSERVATION DATA BOOK

A Selected, Annotated Bibliography, Edition 3

Ву

A. R. Ehrenshaft

B. Y. Barber

P. I. Carroll

L. K. Plemons

P. A. Purnell

R. S. Weaver



November 1978

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Oak Ridge National Laboratory Oak Ridge, Tennessee

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Division of Transportation Energy Conservation

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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 Deboratory (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 $Book^1$ 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

Author -→ Martini, W.R. Corporate author -→ Washington, University of, Joint Center for Graduate Study Address: 100 Sprout Rd., Richland, WA 99352 Title: Stirling Engine Design Manual Publication description ----- Final Report, Report No. DOE/NASA/3152-78/1, NASA CR-135382, 370 p. Publication date - 1978, April Sponsor: U.S. Dept. of Energy, Division of Transportation Energy Conservation; National Aeronautics and Space Administration, Lewis Research Center Keywords: STIRLING ENGINES; DESIGN; MANUALS; BIBLIOGRAPHIES; PERFORMANCE; OPTIMIZATION; SIMULATION; MODELS; DIAGRAMS; RESEARCH Availability: NTIS

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

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

AVAILABILITY OF REPORTS

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

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

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

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

The U.S. Environmental Protection Agency (EPA) fuel economy ratings provide a complete data base for estimating fuel economy trends, but there has been much debate concerning whether these ratings are representative of actual fuel economy experienced on the road. Energy and Environmental Analysis, Inc., in collaboration with the U.S. Department of Energy, has completed the first significant contribution towards resolving this issue.

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

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

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

on-road miles per gallon = α + β * (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.

المعافرة والمعارض

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	Dynamometer tests ^d	Road tests ^d
EPA certification	1974-1977	1831				ပ	
Union Oil	1975	107				ပ	S
Dupont	1974-1976	99			×	ပ	
General Motors	1975-1976	1714			×		
Mobil Oil	1974-1977	63			×	ပ	
Shell 0il	1975-1977	30			×	ပ	
Motor Trend	1974-1977	121					0
Shell Canada	1975	94			×	ပ	
Consumer Letters	1974-1977	134		×			
Consumers Union	1975-1977	83					0
TRV	1974-1977	7.7	×				
Maryland Department							
of Transportation	1974-1977	845	×				
Maine Department of							
Transportation	1974-1977	18	×				
EPA emission							
factors data Industrial	1974–1976	1287		×		ပ	
hydrocarbons	1976	7	×				
J. Glass Leasing	1977	5	×				
New Jersey Department							
of Transportation	1974-1975	211	×				
Texaco 0il	1974-1977	38			×	ပ	
EPA	1974-1976	687	×				
API	1974-1975	4075	×				
AT&T	1976	٣	×				
Amoco 0il	1974-1977	156			×		

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

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

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

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

With this preliminary analysis, fleet results combined with 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.

A William Co.

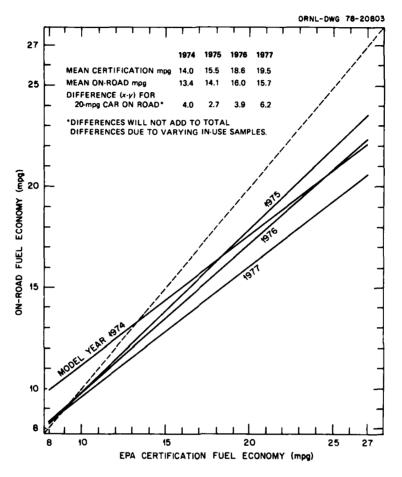


Fig. 1. Linear relation of EPA certification to on-road fuel economy for model years 1974 through 1977. Source: Compiled from B. D. McNutt, D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department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

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

Reviewed by Margaret Fels Princeton University Princeton, New Jersey

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

In response to a request from Senator Lloyd Bentsen, the Congressional Budget Office prepared a summary of existing estimates of energy consumption by urban transportation modes and presented a systematic methodology for using these estimates to compare the energy efficiency of these modes.

The overall goal of the study was to assess the energy conservation potential of available modes.

In order to include a complete range of contributions to the overall energy use, a hierarchy of four levels of comprehensiveness was developed, as shown in Fig. 1. Energy intensiveness measures the energy required to move the vehicle and is generally expressed as energy use per passenger—mile (propulsion energy use per vehicle—mile divided by the average occupancy per vehicle). Line—haul energy includes in the propulsion energy secondary energy contributions from vehicle manufacture, station operation, etc. Modal energy measures the average energy consumed per mile of a trip, which may include an access mode in addition to the main mode, and extra nonproductive travel miles (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

ORNL-DWG 78-21634

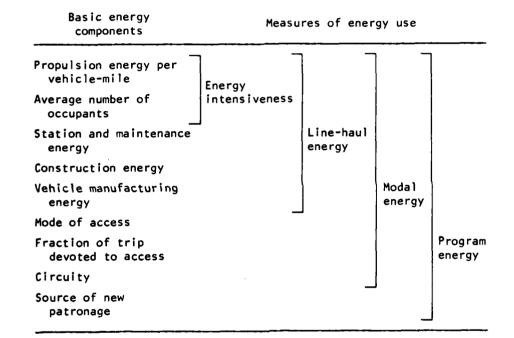


Fig. 1. Hierarchy of measures of energy use. Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. p. 8.

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

Mode of	Vehicle prop	Vehicle propulsion energy $^{\mathcal{Q}}$	(=0.40.00)
transportation	q(Bdm)	(Btu/mile)	orty (system)
Automobile	7.5	16,790	General urban $(six seat)^{\mathcal{C}}$
	11.4	10,970	General urban ^d
	13.5	9,260	General urban ^e
	13.9	8,990	New York metropolitan area $(1972)^f$
	15.0	8,330	General urban (four seat)
	22.5	5,260	General urban (light car) $^{\mathcal{G}}$
Vanpoo1	0.6	13,900	Minneapolis h
Dial-a-ride	4.2	29,780	Los Angeles $\hat{\iota}$
	7.0	17,850	General urban (gas vehicle) $^{\mathcal{G}}$
	7.3-9.0	13,900-17,130	Nine cities
	13.5	9,250	General urban (diesel vehicle) $^{\mathcal{G}}$
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	Clevelandk
•	1.35	92,560	New York City (Transit Authority) k
	1.44	86,680	Philadelphia ^k
	1.71	73,180	New York City (Transit Authority) f
	1.72	72,880	New York/New Jersey (PATH) R
	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)"
	2.41	51,879	$Chicago^{\mathcal{K}}$
	4.00	31,300	$Cleveland^{\theta}$

Table 1 (continued)

Mode of	Vehicle prop	Vehicle propulsion energy	(
transportation	$q(\mathtt{gqm})$	(Btu/mile)	CILY (System)
Heavy rail (new)	1.07	117,100	San Francisco (BART) k
	1.15	109,020	Philadelphia (Lindenwold) ^K
	1.23	101,780	San Francisco (BART)"
	1.44	86,900	Philadelphia (Lindenwold)
	1.45	86,100	Philadelphia (Lindenwold)"
	1.78	70,080	San Francisco (BART, actual)"
	2.13	58,800	San Francisco (BART, projected)"
	2.23	56,175	
	2.57-2.84	44,000-48,580	San Francisco (BART, projected) p
Commuter rail	0.80	154,500	San Francisco;
	96.0	129,900	San Francisco ,
	1.14	109,350	Chicago (average) $^{\kappa}_{i}$
	1.21	103,500	New York (average) $^{\kappa}$
	1.21	103,000	Philadelphia (average) ^K
	1.27	98,213	Bostonk
	1.80-2.90	43,150-69,540	Several cities $(1964)^{l}$
Light rail	1.19	105,000	Philadelphia (SEPTA, city) $^{\mathcal{G}}$
	1.45	86,400	Philadelphja (SEPTA, Red Arrow) $^{\mathcal{G}}$
	1.54	81,284	$Pittsburgh^{K}$,
	1.66	75,147	San Francisco (MUNI)
	2.17	57,750	Rochester (proposed) $^{\nu}$
	2.41	51,992	Newark
Bus	3.6	34,940	New York City (Transit Authority) $^{\mathcal{f}}$
	3.6	34,740	General urban (local bus) \dot{i}
	3.8	32,660	General urban $^{\mathcal{G}}$
	4.0	31,270	Atlanta $(1976)^q$

Table 1 (continued)

Mode of	Vehicle prop	Vehicle propulsion energy a	()
transportation	q(Sdm)	(Btu/mile)	
	4.1	30,500	$Cleveland^{\mathcal{C}}$
	4.4	28,430	Atlanta (projected, $2000)^q$
	8.4	26,310	Northern New Jersey ^f
	4.8	26,060	General urban (express bus)"
	5.6	22,330	Oakland (efficient bus) p
Personal rapid	6.2-13.1	₹,560-20,205	Two systems g
transit	9.6-31.0	4,030-13,000	General urban
Group rapid transit	4.2-15.4	8,100-30,000	General urban
Shuttle loop	7.4-11.4	11,000-17,000	General urban
transit	5.3	23,800 25,200	Dallas (Airtrans) ^C Dallas (Airtrans) ⁿ
Downtown people	1.75	71,400	Los Angeles (proposed) ^S

"Not 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.

Miles per gallon of gasoline or equivalent.

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

Mode and city (system)	Vehicle occupancy (passenger-miles	Load factor (passenger-miles
	per vehicle-mile)	per seat-mile)
Automobile		
Automobile National home-to-work and		
work-related travel ^a	1.4	0.28
,	1.4	0.20
Average for specific cities	1 1/	0.00
Philadelphia ^b	1.14	0.23
New Jersey ^c d	1.12-1.24	0.22-0.25
Albuquerque	1.43	0.29
Unicago"	1.43	0.29
San Diego $\frac{d}{d}$	1.48	0.30
Baltimore ^d	1.49	0.30
New York metropolitan area $_{_{2}}^{e}$	1.5	0.30
National urban area average d	1.63	0.33
Light rail		
Average for specific cities		
Newark ^f	9.4	0.15
Philadelphia (SEPTA, city) f	17.7	0.28
Philadelphia (SEPTA, Red Arrow)	17.8	0.28
San Franciscof	23.6	0.37
Cleveland ^d	26.5	0.42
Pittsburgh ^f	27.8	0.44
Fittsburgh	27.0	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) ^g	19.7	0.27
Boston (includes light rail)	25.6	0.36
${ t Chicago} f$	20.7	0.29
Cleveland f	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) g	21.4	0.30
Philadelphia (Lindenwold)	22.5	0.30
National urban area average ^h	24.5	0.34
· ·	£ 77.5	3.34
Urban bus		
Average for specific cities		
Albuquerque ^a	4.9	0.10
Southern Connecticut ^e	9.8	0.20
Chicago ^a	10.9	0.22
San Diego d .	11.7	0.23

Table 2 (continued)

Mode and city (system)	Vehicle occupancy (passenger-miles per vehicle-mile)	Load factor (passenger-miles per seat-mile)
New York City (Transit		
Authority)e	13.8	0.28
Baltimore ^d .	19.1	0.28
National urban area average, 1973^h	11.5	0.23
Dial-a-ride		
Nine cities ^h	1.00-2.86	0.05-0.15
Seven cities $^{\hat{i}}$	0.8-3.3	0.04-0.17
Median	1.62	0.09
Commuter rail		
Average for specific cities		
New York metropolitan area f	24.2	0.24
${\tt Boston}^f$	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 ^J	47.5	0.48
National urban area average n	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

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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)

Mode	Propulsion energy	Average number of occupants	Station and maintenance energy	Construction energy	Vehicle manufacturing energy
Single-occupant automobile	11,000	1.0	2,000	125	1,100
Average automobile	11,000	1.4	2,000	125	1,100
Carpool	11,000	т	2,000	125	1,100
Vanpool	14,000	6	2,000	200	2,000
Dial-a-ride	15,500	1.6	2,000	200	2,000
Heavy rail (old)	61,000	24	6,000	3,000	1,500
Heavy rail (new)	75,000	21	15,000	4,000	1,500
Commuter rail	105,000	07	7,000	1,200	2,500
Light rail	75,000	20	7,000	1,700	2,000
Bus	30,000	11.5	006	370	1,200
Personal rapid transit	11,000	2	2,000	300	1,000
Group rapid transit	20,000	9	9,000	009	1,000
Shuttle loop transit	23,000	10	7,000	009	1,000

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and effigy: 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^a	0	1.0	NA
Carpool	NA	0	1.15	15 bus 25 carpool 60 single-occupant auto
Vanpool	NA	0	1.2	5 bus 40 carpool 55 single-occupant auto
Dial-a-ride	NA	0	1.4	10 bus 25 walk 45 auto (15 taxi) 20 new trip ^b
Heavy rail (old)	20 bus 40 auto 40 walk	15	1.2	NA
Heavy rail (new)	10 bus 70 auto 20 walk	18	1.3	45 bus 35 auto 10 new trip ^b 10 other
Commuter rail	5 bus 15 walk 80 auto	18	1.3	30 bus 40 auto 10 new trip ^b 20 other
Light rail	20 bus 50 walk 30 auto	10	1.2	50 bus 30 auto 10 new trip 10 other
Bus (express)	25 auto 75 walk	10	1.1	25 bus 55 auto 10 new trip ^b 10 other

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

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

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

Mode	Operating energy intensity	Line- haul energy	Modal energy	Program energy (net savings)
Single-occupant automobile	11,000	14,220	14,220 ^a	NA^b
Average automobile	7,860	10,160	10,160 ^a	NA
Carpool	3,670	4,740	5,450	4,890
Vanpool	1,560	2,020	2,420	7,720
Dial-a-ride	9,690	12,310	17,230	$(12,350)^{c}$
Heavy rail (old)	2,540	3,100	3,990	NA
Heavy rail (new)	3,570	4,550	6,580	(980) [©]
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. ${}^b\mathrm{NA}$ — 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.

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

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

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

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

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

References

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Reviewed by Gwendolyn H. Walton Oak Ridge National Laboratory Oak Ridge, Tennessee

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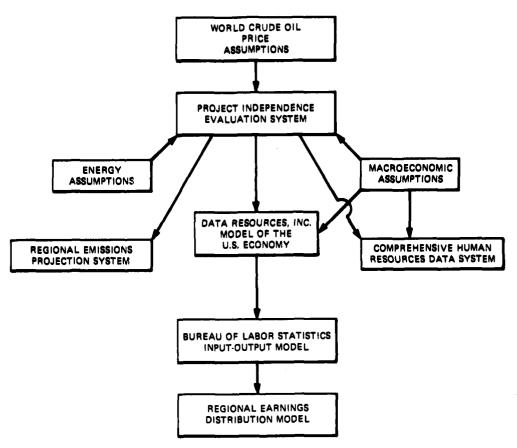


Fig. 1. Schematic representation of the energy/economic/environmental assessment system. Source: Adapted from Energy Information Administration. 1978. Energy Information Administration 1977 annual report to Congress, Vol. II. DOE/EIA-0036/1. U.S. Department of Energy, Washington, D.C. Fig. 2, p. 5.

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

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

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

- 1. Passenger-miles
- 2. Transportation services rendered
 - a. Vehicle-miles per year
 - b. Passenger-miles per year
 - c. Average vehicle occupancy
- 3. Fuel consumption
 - a. Gallons per year
 - 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 Characterisation of the U.S. Transportation System and the Oak Ridge National Laboratory's Transportation Conservation Data Book: Edition 2 (ORNL-5320), both published after this report, are not included.

5. Fuel cost

- a. Percentage of total operating cost
- b. Percentage of total operating cost plus travel time cost Some disaggregated data are presented for each mode.

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

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

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

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

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

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

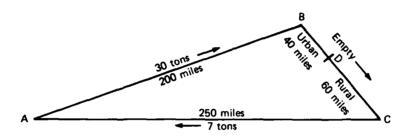
location with only one possible means of transportation (usually the automobile), a fair comparison cannot be made with other means of transport. Direct energy consumption and energy intensity alone are not always worthwhile information. Other factors such as the time factor and the hourly monetary value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

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

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

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

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Full load out, long dead head for partial return load

A-B loaded, 30 tons, 200 miles at 3.5 mpg = 57.14 gal C-A loaded, 7 tons, 250 miles at 4.8 mpg = 52.08 gal 37 tons 109.22 gal

Ton-miles = (30 tons) × (200 miles) = 6000 ton-miles (7 tons) × (250 miles) = 1750 ton-miles 7750 ton-miles

B-D Empty, 60 miles at 6 mpg = 10.00 gal D-C Empty, 40 miles at 3 mpg (urban stop and go) = 13.33 gal 23.33 gal

Total = 132.55 gal

Ton-miles/gal = 7750 ton-miles \div 132.55 gal = 58.47 ton-miles/gal Tons shipped per gallon = 37 tons \div 132.55 gal = 0.2791 ton/gal Empty mileage of 100 miles \div 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.

Reviewed by Kenneth J. Reed Oak Ridge National Laboratory Oak Ridge, Tennesses

OAK RIDGE NATIONAL LABORATORY'S REPORTS ON GASOLINE DEMAND

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

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

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

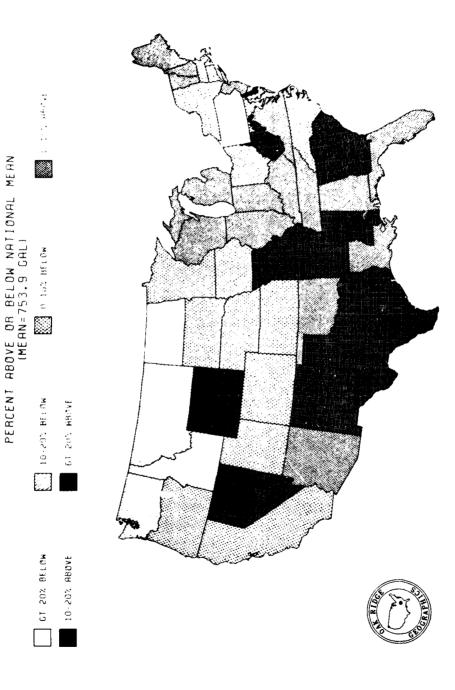


Fig. 1. 1975 gasoline consumption per vehicle. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 2, p. 7.

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 URNI DWC 17 20781

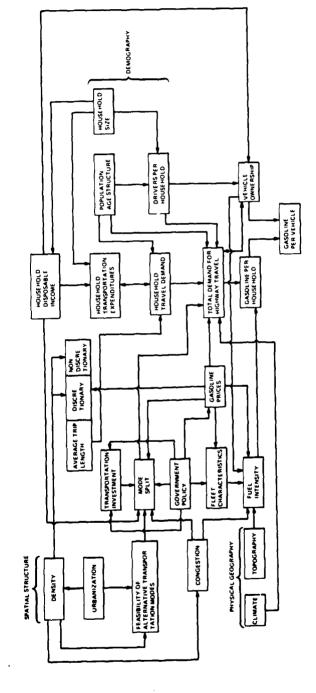


Fig. 2. Gasoline consumption per vehicle at the state level: a conceptual diagram. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 6, p. 20.

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.
- 2. Geographical distribution: available data on sales by region for Mercedes and Peugeot (SRI cautions that demand for these autos exceeds supply, and sales patterns reflect corporate allocation procedures more than intrinsic demand; hence, regression analysis is not possible.
- 3. Fuel availability: data on number of diesel service stations by state and on diesel and gasoline prices by city.

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

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

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> Reviewed by 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 costeffective. 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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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 study of the Office of Policy and Evaluation, U.S. Department of Energy, to examine the following three assumed levels of penetration of diesel cars into the new-car market:

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

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

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

1. Refinery operations

- a. Exxon study: A new refinery in 1990-2000 could achieve as much diesel as gasoline output (G/D = 1.0).
- b. Amoco and Mobil studies: The limit to refinery flexibility would be reached at G/D ratios of 0.6 to 0.7. A larger proportion of diesel (i.e., a lower ratio), if economical, would involve shifts in other product demands or new refining technology.

2. Diesel penetration

- a. Amoco and Mobil studies: If the increased distillate production is all used in diesel cars, a G/D ratio of 0.7 amounts to total motor fuel production consisting of 30% diesel, which is sufficient to sustain 40% of the total U.S. automobile fleet. A reasonable time frame is considered to be 1985 or beyond.
- b. Banner and Moore Associates study: Approximately 60% of the new-car fleet and 50% of the total car fleet in 1995 can be diesels.

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

3. Petroleum savings

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

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

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

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

In contrast to these hypothesized situations, U.S. automobile manufacturers were found to anticipate a very slow growth of the diesel car population, with imported diesels expected to comprise less than 5% of the total import fleet by 1985. A potential barrier to rapid penetration of diesel cars is emission control. These control measures include the $NO_{\mathcal{X}}$ 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 over-all 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 1972, 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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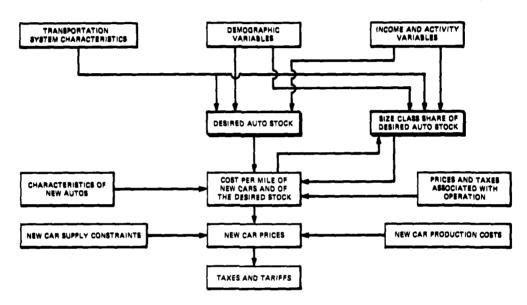


Fig. 1. Basic structure of the Wharton model. Long-run outputs are in boldfaced boxes. Source: Adapted from G. R. Schink and C. J. Loxley. 1977. An analysis of the automobile market: Modeling the long-run determinants of the demand for automobiles, Vol. I. Wharton EFA, Inc., Philadelphia. Chart 3B, p.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

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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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1977, September SPONSOP: Energy Research and Development Administration, Division of Transportation Theory Conservation of Transportation Retworks: Autonotive Engines; Planning; TECHNOLOGY; DIESEL ENGINES; STIRLING ENGINES; FUEL EFFICIERCY; GOVERNEEMT POLICIES; ALTERNATE FUELS: HANDFACTURERS; COSTS; UTILIZATION, AUTONOTIVE INDUSTRY; PRODUCTION; COMMERCIALIZATION

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

Technical Hemorandum, Report No. COMS/1044-1,
NASA TH-73834, 8 p.
1978, February
FORSON: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
EXTRORDS: LEAD-ACID BATTERIES: SINULATION:
ELECTRIC VEHICLES: VELOCITY: CORTOL:
ELECTRIC DISCHARGES; CAPACITY: DESIGN; ENERGY
Transport AVAILABILITY: NTIS

Mary Southern Profession Professi

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

Report No. COO-2630-18, 299 p.
1976, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMORD: STIRLING ENGINES; HEAT EXCHANGERS;
COSTS; PERFORMANCE; REGENERATORS; GAS TURBINE
ENGINES; DIAGRAMS; GRAPHS (CHARTS); TRELES
(DATA); STRESS ANALYSIS; THEPHODYNAMICS
AVAILABILITY; ETIS

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, confetence held September 22-23, 1976, Albuquerque, New Hexico, 40 p.

1977, Harch
SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: HIBRID ELECTRIC-POWERED WEHICLES;
CONFERENCES; HEAT ENGINES; SYSTEMS ANALYSIS;
SYDRACE; AUTOHOTIVE CONTROL SYSTEMS
AVAILABILITY: HTIS

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

Report No. UCRL-52306/1, 74 p.
1977, September 9
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES: HYBRID
ELECTRIC-POWERED VEHICLES: PEGEMERATIVE
BRAKING; HISTORY: RECOVERT: UTILIZATION;
FLYWHEELS: FOWER TRAIN SISTEMS; DIAGRAMS;
BATTERIES: TABLES (DATA): GRAPHS (CHARTS);
COSTS: FERSIBILITY
AVAILABILITY: WIIS

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

to Francisco Marie Marie and Committee of the

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

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation K-YFORDS: AUTOMOBILES; EMEPGY STORAGE;

OBDS: AUTOHOBILES; EMERGY STORAGE; TECRHOLOGY; ELECTRIC VERICLES; REGEMERATIVE SPAKING; HISTORY: DEVELOPMENT: TESTING; TRANSPOPTATIOE; COST ABALISIS; TABLES (DATA); PATEMYS; HIBBID ELECTRIC-POWERED VERICLES; EMERGY COMSERVATION; BATTERIES

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

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

1979, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
REFUNCOS: FORECASTING: HODELS: TRANSPORTATION;
GASOLINE: RATIONING; EMERGY CONSERVATION;
AUTOHOTIVE EMBLINES; BRANTON CICLE: STIRLING
EMGINES: INTERNAL COMBUSTION EMGINES;
ECONOMIC IMPACT: EMERGY INTERNITY; HARRET:
EMERGY CONSUMPTION; AUTOHOBILES: GROWTH;
VEHICLE HILES TRAVELED; GROSS NATIONAL
FRODUCT; 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 Horsepower
Projections for the Highway Transportation
Sector

79 b.
1978, April 28
5PONSOF: U.S. Cept. of Energy, Division of Transportation Energy Conservation, Office of Highway Systems, Heat Engine Systems Bracch KEYWORDS: FORE CONSUMPTION: HIGHWAY TRANSPORTATION: AUTOHOBILES; TRUCKS; BUSES (VENTCLES); MOTORCYCLES; BILEAGE; ENGINES; SALES: PONECASTING; BRIGHT; CLASSIFICATIONS; TRANSS (DATA); SIZE; PUEL RCOMONY

Pustin, H.O.: Denington, R.J.
Hational Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: "est and Evaluation of 23 Electric
Vehicles for State-of-the-Art Assessment

Report Wo. COMS/1011-21, MASA TH-73850, paper presented at the 1978 SAE Congress, Detroit, Michigan, February 27 - March 3, 1978, 24 p.

SPC#SOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation Revorbs: ELECTRIC VERICLES: TESTING: HYBRID ELECTRIC-POWERED VEHICLES: REGENERATIVE SRAING: EMERGE COSSUMPTION: TABLES (DATA): GRAPHS (CHARTS): FUEL COSSUMPTIOF: PERFORMANCE

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

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

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

1978, January 11

PPOBSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: ALTERNATE PUELS; COMBUSTION; CHENICAL PROPERTIES; HODELS; COMBUSTION PROPERTIES; HODELS; GAS TURBINE ENGINES; HYDROGER; HITROGEN; THERMODINABIC PROPERTIES; TRUBULEN FLOW; DROFLETS; SPRANS; DECOMPOSITION; OXIDATION; GBAPHS (CHARTS)

AVAILABILITY: HITS TRUBULENT

Foster, R.W.
Hiami, University of, Ryder Program in
Transportation; Escher Technology Associates
ADDRESS: UH, Coral Gables, FL 3312a; 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; EMFTY BACKHAUL; EMERGY RESOURCES;
COMMERCIALIZATION; DESIGN; DEMONSTRATION;
TABLES (DATA): DIAGRAES TABLES (DATA); DIAGRAMS AVAILABILITY: MIS

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

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

Goen, R.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 VEHICLES; DIESEL EMGINES; TWOCKS;
AUTOHOTIVE ENISSIONS; STANDARDS; DIESEL
FUELS; HARKETING; FUEL ECONOMY; COSTS;
HARUTACTURES; TECHNOLOGY; GASOLINE; SURVEYS;
CONSUMERS; TABLES (DATA); ELECTRIC VEHICLES;
PRODUCTION; SALES; AUTOHOBILES

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

Report No. ORNL-5391, 61 p.
1978, April
1978, April
197809: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Stanch
METEORDS: DETERMINATS: GASOLINE: FUEL
CONSUBSTION: HODELS: STATE ANALYSIS:
SOCIO-ECOBORIC FACTORS: AGE GROUPS:
HHICOTHENT: TOWNISH: VEHICLE RILES TRAVELED:
VEHICLE REGISTRATIONS: AUTOHOBILES:
CMFERSHIP: AUTOHOBILE DRIVERS: EMERGY DEHAMD:
COMPARATIVE EVALUATIONS
AVAILABILITY: MTIS

Greene, D.L.; C'Connor, T.P.; Patterson, P.D.; Bose, A.B.; Shonka, D.B. Oak Bidge Haticnel Laboratory, Energy Division, Regional and Orban Studies Section ADDESS: Oak Ridge, TH 37830 TITLE: Regional Transportation Energy Conservation Data Book. Edition 1

Report Fo. ORFL-5435 Special, 530 p.
1978, September
1978, September 1978, Sep

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

Peport No. HCP/W4248, v.p.
1978, July
SPOSSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: VEHICLE TRIPS; DISTANCE; AUTOHOBILES;
FURL SCOUGHT: GASOLINE: FUEL ADDITIVES;
TESTING: DEVINE CYCLE; DYNADMETERS; OCTABE;
SPASORAL VARIATIONS; AUTOHOTIVE EMISSIONS
AVAILABILITY; GPO, Stock No. 061-000-00112-3

Basilton, W.
General Research Corp.
ADDITIS: Santa Barbara, CA 93105
TITLE: 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.

1977 SPORSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES: TECHNOLOGY;
DEHONSTRATION; DEVELOPMENT: MICKEL-ZINC
BATTERIES; BATTERIES; LITHIUM-ALUMINUM-METAL
SULFIDE BATTERIES; LEAD-ACID BATTERIES;
PERFORMANCE; GRAPHS (CHARTS); EMERGY
COMSUMPTIOM

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

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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Emergy Conservation
EEPORDS: URBAN TRANSPORTATION: PORECASTING:
ELECTRIC VEHICLES: AIR POLLUTION; NOISE
POLLUTION; BEERGY CONSUMPTION: PETROLEUM;
LIFE-CYCLE COST; LOS ANGELES: PHILADELPHIA;
SAINT LOUIS (MISSOUR)

Heck, R.H.; Chang, H.; Hess, H.; Carrubba, R. Engelhard Industries, a Division of Engelhard Hinerals 5 Chesicals Corp. ADDRESS: Henlo Park, Edison, BJ 08617 TITLE: Durability Testing at One Atmosphere of Advanced Catalysts and Catalyst Supports for Automotive Gas Turbine Engine Combustors.

Final Report, Report Bo. CONS/9846-1, WASA CR-135132, 223 p.
1977, June
SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation KEYWORDS: TRSTING; CATALYSTS; AUTOHOBILES; GAS TURBINE BUGINES; COMBUSTORS; PERFORMANCE; ENISSIONS; PROPANE; DIESEL FUELS; AUTOHOTIVE ENISSIONS; ILFE (DURABILITY); TABLES (DATA); GRAPHS (CHARTS)
AVAILABILITY: WITS

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
SPONSON: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYNORDS: AUTOHOBILES: DIESEL FRGINES:
TECHNOLOGY: RESEARCH PROGRAMS: FUEL ECONOMY:
DESIGN: AUTONOTIVE ENISSIONS: SIMULATION;
EXHAUST RECIRCULATION SISTEMS
AVAILABILITY: GPO

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

Peport Wo. RIT-695, v.p.

1977, August

SPOUSOR: Energy Benearch and Development
Administration, Division of Transportation
Energy Conservation
Energy Conservation:
EVENOPOS: RIGHENT TRANSPORTATION: EMERGY
CONSERVATION: EPPICIBECT: FUEL ECONOMY:
FEASIBILITY: RETROPITTIEG: COMPARATIVE
EVALUATIONS: TRUCKS: AUTOMOSILES: MARKET:
PASSENGER TRANSPORTATION: CARGO
TRANSPORTATION: BUSES (VEHICLES): MODELS:
MOBILITY: EMPTROMMENTAL IMPACT: ECONOMICS:
GRAPHS (CHARTS): EQUIPMENT: GOVERNHENT
POLICIES: RETROFIT DEVICES

ioward, E.B.; Barber, B.Y.; Jordan, A.C.; Seaborn, C.C. Jak Pidge National Laboratory, Information Division, Information Center Complex, Energy Information Center ADDRESS: Oak Ridge, TH 37830 TITLE: Transportation Energy Conservation Data Book: A Selected, Annotated Bibliography.

Peport No. OPML/EIS-11% (Part II of ORML-5320), 272 p.

Peport No. OFBL/EIS-118 (Part II of ORBL-5320), 272 b.
1977, October
SPOWSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation RETWORDS: BIELIOGRAPHIES; TRANSPORTATION; EMERGY COMSERVATION; AIR TRANSPORTATION; AIR TRANSPORTATION; AIR TRANSPORTATION; AIR TRANSPORTATION; AIR TRANSPORTATION; DETROILEDS; CARGO TRANSPORTATION; DETROILED (DEGIMES; ECOMONICS; EFFICIENCY; ELECTRIC VEHICLES; EMERGY COMSUMPTION; EMPIROMENTAL IMPACT; FORFCASTING; TUEL COMSUMPTION; FUEL ECOMONY; FUELS; GASOLINE; GOVERNBERT POLICIES; LEGISLATION; HASS TRANSPORTATION; RAIL TRANSPORTATION; STATISTICS; TRUCKS; UBBAN TRANSPORTATION; HIGHAY TRANSPORTATION; VERICLES; WATER TRANSPORTATION; ABSTRACTS

Jelavich, H.S.
Pawcett (Jack) Associates Inc.
ADDRESS: 5858 Fisconsin Avenue, Suite 1150, Chevy
Chase, Ht 20015
TITLE: A Study of the Determinants of Freight
Hodal Choice

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

1978
SPONSOR: U.S. Cept. of Energy, Division of Transportation Energy Conservation RETWORDS: CARGO TRANSPORTATION; DECISIONS; WEIGHT: INFUT-OUTPUT ANALYSIS; COMMODITIES; FORECASTING; HODELS; RATES (COSTS); DISTANCE;

Relier, J.L.; Bakaguchi, G.H.; Hare, J.C. Union Oil Co. of California, Research Dept. ADDEMS: Bree, CA "ITLE: Hethanol Fuel Hodification for Highway Webicle Use. Final Report

Peport No. RCP/W3683-18, v.p.
1978, July
SPOUSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETURNS: HETRANOL: ALTERNATE FUELS: ALCOHOL
FUELS: ENGINES: MODIFICATIONS: GASOLINE:
PROPERTIES: VERICLES: UTILISATION:
PESPONRANCE: 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 August 16

1977, August 16
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETHORDS: PHOTOGRAPHS; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; GERMAN FEDERAL
REPUBLIC; ISRAEL; HETHERLANDS; SWEDEN; UNITED
KINGDOM; FRANCE; ITALY; JAPAN; USA;
HANDIACTURERS; HARKET; RESEARCH; DESIGN;
INTERNATIONAL AWALTSIS
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 LP: Utilization of Waste Heat in Trucks for Increased Fuel Economy. Final Report

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 No. ORNL/Sub-78/14285/1, Special, 6a p.
1978, October
SPONSOR: Oak Ridge Wational Laboratory, Energy
Division, Regional and Urban Studies Section;
U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REFEORDS: TRUCKS; INFENTORIES; FORECASTING;
OMBERSHIP; GROWTH; HIGHWAI TRANSPORTATION;
UTILIZATION; WEHICLE REGISTRATIONS;
SOCIO-ECOMORIC PACTORS; WANS
AVAILABILITI: HTIS

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

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

Section of the sectio

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Administration, San Francisco Operations office; U.S. Pept. of Fnergy, Division of Transportation Energy Conservation NOPPS: PLYMBELS: PMESCY STORAGE; DIAGRAMS; GPAPMS (CHAPTS); BLECTRIC VEHICLES: TESTING; MODELS: WOTORS: BEARINGS; SHAPTS; SEALS AVAILABILITY: MTIS

Harcus, A.
Hechanical Technology Inc.
ADDRYS: 969 Albany-Shaker Road, Lathar, NY
TITLE: An Advanced Electric Hotor Transmission
for Plactric 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
RETWODES: TECHNOLOGY ASSESSEEM; EFFICIENCY;
DESIGN: FARRICATION; ELECTRIC VEHICLES;
MODELS; TABLES (DATA); TRANSPORTATION; GRAPHS
(CHAPTS); TESTING
AVAILABILITY: NTIS

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

Report No. C00/2835-2, v.p. Report No. COO/2835-2, v.p.
1977, September
SPONSOR: D.S. Dept. of Energy, Division of
Transportation Energy Conservation
RYMOODS: Electric Vehicles; PERFORMANCE; DESIGN;
BATTERIES; TECHNOLOGY; TESTING;
SPECIFICATIONS; ELECTRIC HOTORS; EPFICIENCY;
ANTOMOTIVE ENGINEERING; COST ESTIMATES;
GPAPRS (CHARTS); TABLES (DATA) AVAILABILITY: NTIS

Martini, W.P.
Washington, University of, Joint Center for Graduate Study
ADDRESS: 100 Sprout Rd., Richland, WA 99352
TITLE: Stirling Engine Design Manual

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

Holean, A.F.; Baker, R.R. Ford Motor Co. ADD ESS: Dearborn, HI 48121 "ITTE: Brittle Haterials Design, High Temperature Gas Turbine. Volume 2: Ceramic Turbine Rotar Technology

Report Bo. AHRRC TR 78-1a, DA-OD 4733, 12th
Interis Report for the Period January September 1977, 93 p.
1978, Harch
1978, FR. U.S. Espt. of Defense, Army Haterials
and Hechanics Pessarch Center; U.S. Dept. of

Energy, Division of Transportation Energy ENERGY, DIVISION OF TRANSPORTATION ENERGY
CONSERVATION; DESIGN; GAS TORBINES;
CCEARANCS; ROTORS; TECHNOLOGY; HIGH
TEMPERATURE; BRITTLEWESS; PABRICATION;
SILICON WITRIDES; TESTING; COMPUTER PROGRAMS;
TABLES (DATA); GAS TORBINE ENGURES; SILICON
CAR BIDES; HECHANICAL PROPERTIES; PROTOGRAPHS;
DIAGRAMS DIAGRAMS AVAILABILITY: WIIS

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

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

Highdoll, P.: Hahn, W.F.
Booz, Allen & Hamilton Inc., Design and
Development Division
ADDRESS: Cleveland, OH 84131
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/WASA/0595-78/1, WASA CP-13541, 140 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
Research Center
KETHORDS: POWER TRAIN SYSTEMS: ELECTRIC VEHICLES;

TECHNOLOGY ASSESSMENT; HOTORS: AUTOMOBILE TRANSMISSIONS; MODELS: DESIGN; COMPUTERIZED SIMULATION; DIAGRAMS; TABLES (DATA) AVAILABILITY: NIIS

Hittal, R.K. (ed.)
Umion College
ADDRESS: Schenectady, NT 12308
TITLE: Third National 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. 1977, Hay SPONSOR: Energy Research and Development

1970, wo p.

1977, Hay
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
EPHORDS: TRANSPORTATION SYSTEMS; EMERGY
CONSUMPTION; EMERGY COMSERVATION; URBAN
TRANSPORTATION; BAY AREA RAPID TRANSIT
SYSTEM; CARGO TRANSPORTATION; RAIL
TRANSPORTATION; PASSEMGER TRANSPORTATION;
REGULATIONS; CARPOOLING; TRUCKS; FUEL
ECOMONY; INTERCITY TRANSPORTATION; RAPID
TRANSTT SYSTEMS; AIR TRANSPORTATION; TABLES
(DATA); COMPERENCES; COMPUTERIZED SHOULATION
AVAILABILITY; GPO, Stock No. 060-000-00073-5

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

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· Tital de butter a servi

Technology for Highway Transportation

Report Bo. HCP/H2923-01, 132 p.
1978, June
SPCNSOF; U.S. Tept. of Energy, Division of
Transportation Fnergy Conservation
KETWOFTS: ALTERNATE FUELS; UTILIZATION; ALCOHOL
F781S; HIGHMAN TRANSPORTATION; BETHAROL;
ETHNOL; TESTING; ENGINES; ENISSIONS;
P*PFORTANCE; FUEL ECONOMY; FUEL CONSUMPTION;
COMPARATIVE EVALUATIONS; PROPERTIES; COSTS;
G*APMS (CRAFTS); NATER
AVAILBELITY; HITTE

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

Peport No. RCP/M2C98-01, 16 p.
SPC#SOR: U.S. Tept. of Energy, Division of
Transportation Energy Conservation
KYMORDS: ETRANGL: GASOLINE; ALTERNATE FUELS;
DEMATURANTS

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

Peport No. HCP/H1011-01, v.p.
1978, January
SPORSOR: O.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYNOPDS: ELECTRIC VEHICLES: HYBRID
ELECTRIC-PORRED VEHICLES: GOLIPHENT:
TESTING: TABLES (DATA): BATTERIES: SURVEYS;
PEPFORMANCE: ELECTRIC VEHICLE RANGE: ENERGY
COMSTRATION: RELIABILITY
AVAILABILITY: HTIS

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

Report No. HCP/H1011-03/1, v.p.
1978, July
SPCMSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RFYORDS: ELECTRIC VERICLES; HYBRID
ELECTRIC-POWBERD VERICLES; ESSING; DRIVING
CYCLE; EMERGI COMSUMPTION; PERFORMANCE;
CESIGN; EATTERIES; TABLES (DATA); GRAPHS
(CMPTS); RANDIACTUREPS
AVAILABILITY; NTIS

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

Report No. CONF-770% 30/1, symposium held in the shington, DC, April 18-22, 1977, 103% p. 1978, February Stonson F. Stonson F. Conservation of Transportation Energy Conservation KYTWORDS: CONFERENCES: PROPULSION; AUTOHOBILES: GAS "URSIPES: AUTOHOTIVE FUELS: FUELS: DIESEL THE GENES: STRILING ENGINES: RANKINE CYCLE ENGINES: ELECTRIC VEHICLES: HYBRID

t

ELECTRIC-POWERED VEHICLES; STRATIFIED CHAPGE ENGINES; SPARK IGHTION ENGINES; AUTOHOTIVE EHISSIONS; POWEP TRAIN SYSTEMS AVAILABILITY: HIIS (when available) and the same of the same

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

Report Mo. CO0/2633-3, v.p.
1978, February
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYMORDS: BOILERS: FANKING CYCLE POWER SYSTEMS;
DESIGN: COMPARATIVE EVALUATIONS; TESTING;
VAPOR GENERATORS: HODELS; SIMULATION: DIAGRAMS

Pefley, R.K.; Browning, L.H.; HcCormack, H.C.; Hornberger, M.L.; Likos, W.F.; Pullman, B. Santa Clara University, Dept. of Mechanical Engineering ADDRF3S: 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
RETYGRDS: ALTEPHATE FUELS; HETHANGL; COMPARTIVE
EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL
ECONOMY; GASOLIME; PERPORMANCE; 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. Pept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: FUEL ECONOMY; GASOLINE; HYDROGEN;
HETHANOL; FUEL INJECTION SYSTEMS; STIRLING
ENGINES; GAS EMGINES; AUTOHOBILES;
COMPARATIVE EVALUATIONS; DFIVING CYCLE;
HIGHAY TRANSPORTATIONS; PREVEY STORAGE;
VEHICLE TRIPS; TESTING; FUEL CONSUMPTION;
VEHICLE HILES TRAVELED; PHOTOGRAPHS;
AUTOHOBILE OCCUPANCY
AVAILABILITY: NTIS

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

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

A Company of the Comp

DISPLACEMENT ENGINES; EXHAUST RECIRCULATION SYSTEMS; AUTOHOTIVE BRISSIONS; FUEL ECONOMY; MEASUREMENT; TESTING; DRIVING CYCLE; ORBAN "PANSPORTATION; HECHANICS; GRAPHS (CHAPTS); DIAGRAMS; HYDROCARBONS; 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, Newelopment and Demonstration Act of 1976

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

1976, January
SPOWSOF: U.S. Dept. of Energy, Division of Transportation Energy Conservation
RYMOPOS: ELECTRIC VPHICLES: HIPBID
ELECTRIC-POWEREN VEHICLES: COMPERCIALIZATION: PWPFOY DENAND: COSTS: PEPFORNANCE: TABLES (MATA): ELECTRIC VEHICLE PANGE:
TRANSPORTATION: PETROLEUM: ENERGY COMSTYVATION: TECHNOLOGY ASSESSMENT: INSTITUTIONAL FACTORS: SAFETY
AVAILABILITY: BTIS

Reilly, J.J.: Wiswall, R.H.: Waide, C.H.
Brookhaven Wational laboratory, Dept. of Applied
Science
ADTRIES: "Opton, NY 11973
"ITLE: Motor Vehicle Storage of Hydrogen Using
Metal Hydrides. Final Report

Peport No. TIC-75/001, 88 p.
1974, October
SPONSON: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: HYDROGEN; HYDROGEN STORAGE; HYDRIDES;
AUTOMOBILES: HAGRESIGH HYDRIDES; ALUMINUM
HYDRIDES: DESIGN; STABILITY; COMPARATIVE
EVALUATIONS; TABLES (DATA); DIAGRAMS;
ALTEPNATE FUELS
AVAILABILITY: HTIS

Poelke, R.J.; HcLallin, K.L.
Ba*ional Aeronautics and Space Administration,
Lewis Research Center
ADDPESS: Cleveland, OH 48135
FITTE: Cold-Air Performance of the
Compressor-Drive Turbine of the Department of
Finercy Baseline Automobile Gas-Turbine Engine

Peport No. DOE/NASA/1011-78/25, WASA TH-78894, F-9480, 22 p.
1978, July
SPONSOR: J.S. Lept. of Energy, Division of Transportation Energy Conservation
REYMORDS: GAS TURBINE ENGINES: PERFORMANCE: US
DOE: AUTOHOBILES: ARRODYMANICS: VELOCITY:
TOSTING: ENGINES: EPFICIENCY: VELOCITY:
HERSTRENENT: PRESSURE HEASUREHENT: GRAPHS
(CHARTS): DIAGRAMS: TEMPERATURE: TORQUE
AVAILABILITY: WIIS

Pohy, C.A.: Hachman, J.P.: Duffy, T.E. International Harvester Co., Solar Division ADDRTSS: 2200 Pacific Highway, San Diego, CA 92138 TITLE: Automotive Storage of Hydrogen Using Modified Hagnesium Hydrides Peport No. TEC-75/002, 55 p.
1975, July
SPOISOR: U.S. Environmental Protection Agency,
Office of Air and Haste Hanagement, Office of
Hobile Source Air Pollution Control,
Alternative Automotive Power Systems
Division; Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMORDS: HYDROGEM; AUTOHOBILPS; HAGMESIUM
HYDRIDES: ENERGY STORAGE; ALTERNATE FUELS;
HAGMESIUM ALLOYS; RESEARCH; HYDRIDES;
REFUELING; TABLES (DATA); GRAPHS (CHARTS);
HYDROGEN STORAGE
AVAILABILITY; NTIS

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

Report NO. HCP/H1043-01, CONS/1043-1, 428 p.
1978, Pebruary
SPONSOP: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KETWORDS: HIBBID ELECTRIC-POWERED VEHICLES;
INSTITUTIONAL PACTORS: LEGISLATION; TAKES;
REGULATIONS; ELECTRIC VEHICLES; TPAFFIC
CONTROL; GOVERNBENT POLICIPS; AUTOHOTIVE
INDUSTRY: ELECTRIC POWER; BATTERY CHARGING;
VEHICLE PARKING; TABLES (DATA); PEGIONAL
ANALYSIS; PRICES; RATES (COSTS); PETROLEUH;
URBAN ARPAS
AVAILABELLITY: NTIS

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

Report No. DOZ/NA SA/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
KEYMORDS: ELECTRIC VEHICLES; DESIGN; POWER TRAIM SYSTEMS; PERFORMANCE; ELECTRIC VEHICLE RANGE; DRIVING CYCLE; EFFICIENCY; ADTOMOTIVE ENGINEERING; TESTING; SINULATION AVAILABILITY; NTIS

Rowlett, B.H.; Murry, R. Airesearch Hanufacturing Co. ADDRESS: Torrance, CA TITLE: Hear-Term Electric Vehicle Program: Phase 1, Final Report

Report Wo. SAW/1213-1, 259 p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REMOTED BY THE TRANSPORTANCE;
SAFETT: SATTERES; TABLES (DATA); GRAPHS
(CHARTS); DIAGRAHS; EMERGY STORAGE;
ECOMONICS; COSTS; DEVELOPMENT; RODELS;
SINGLATION; LIFE-CYCLE COST; TRANSPORTATION
AVAILABILITY: MIS

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Ruscitto, D.: HcCornick, J.: Gray, S.
Heckanical Technology Inc.
ADDRESS: Latham, FT 12110
TITLE: Hydrodynamic Air Lubricated Compliant
Surface Bearing for an Automotive Gas Turbine
Fingine. I - Journal Bearing Performance

Report Wo. COWS/9427-1, WASA-CR-135368, 108 p.
1970, April
SPOWSOR: U.S. Lept. of Energy, Division of
Transportation Energy Conservation; Wational
Acronautics and Space Administration
RETWORDS: TESTING: AUTOROTIVE ENGINES; GAS
TUPBINE ENGINES; BYARINGS; DESIGN;
PERFORMANCE; TEMPERATUPE
AVAILABILITY: HTIS

Schmidt, F.W.: Wagner, C.E. Chrysler Corp. RODRESS: Detroit, MI TITLE: Baseline Gas Turbine Development Program. Fighteenth Quarterly Programs Report

Report No. COO-2789-18, 261 p.
1977, April 30
SPONSOR: Energy Research and Development
Alministration, Division of Transportation
Energy Conservation
KEYHOPDS: GAS TURRING ENGINES; DESIGN;
EPFICIENCY; FUEL ECONOMY; GRAPHS (CHARTS);
TABLES (DATA); DIAGRARS; VEHICLES;
PERFORMANCI; DAYLOPMENT
AVAILABILITY; NTIS

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

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

SPONSOR: Energy Research and Development
Afainistration, Division of Transportation
Energy Conservation
RETWORDS: ELICTRIC VEHICLES: ELECTRIC VEHICLE
RAWGE: COSTS: BATTERIES: PERFORMANCE:
COMPARATIVE EVALUATIONS

Schwarz, R.
ASI Engineering Inc.
ADDRESS: 4-5 South Pairview Avenue, Goleta, CA
93017
TITLE: Wear-Term Electric Vehicle Program.
Phase 1, Final Report

Report No. SAM/1295-1, 30% p.
1977, August
SPCMSOR: Energy Research and Development
Administration, Division of Transportation
Thergy Conservation
RTWOPDS: ELECTRIC VENICLES; DESIGN; BATTERIES;
PREPORMANCE; TABLES (DATA); GRAPES (CHARTS);
DIAGRAMS; LIFE-CYCLE COST; COSTS; EPPICIENCY;
PMEPGY STORAGE; URBAN TRANSPORTATION; EMERGY
COMSUMPTION; EMERGY COMSERVATION; WEIGHT
AVAILABILITY: HTIS

Shonka, D.B. Oak Ridge Wational Laboratory, Energy Division, Regional and Urban Studies Section ADDRESS: Oak Ridge, TH 37830 FITLE: Characteristics of Automotive Fleets in the United States: 1986-1977

Report Mo. ORML/TH-6849 Special, 49 p.
1978, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOHOTIVE PLEETS: AUTOHOBILES:
INVENTORIES: PURCHASING: FUEL ECOHOMY:
OWNERSHIP: SUNVEYS: TABLES (DATA): SIZE:
VERICLE REGISTRATIONS: VERICLE BILES
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 Orban Studies Section
ADDRESS: Oak Ridge, TB 37380
TITLE: Transportation Energy Conservation Data
Book: Edition 2

Report Mo. ORML-5320, 459 p.
1977, October
SPOMSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYBORDS: EMERGY COMSERVATION; MIGHWAY
TRANSPORTATION; AIR TRANSPORTATION; RAIL
TRANSPORTATION; HARRIE TRANSPORTATION; RAIL
TRANSPORTATION; HARRIE TRANSPORTATION; TABLES
(DATA); GRAPHS (CHARTS); VERICLES;
REGULATIONS; EMERGY COMSUMPTION; DEBAND
(ECOMOMICS); FUEL ECOMONY; FUEL COMSUMPTION;
AUTOROBILES; EMERGY INTENSITY; TRAVEL; EMERGY
DEHAND; PASSEMBER TRANSPORTATION; AUTOROTIVE
FLEETS; PETROLUMN; SALES; PUBLIC
TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE
REGISTRATIONS; URBAN TRANSPORTATION; VEHICLE
REGISTRATIONS; OWNERSET POLICIES; EMERGY
SUPPLIES; WATER TRANSPORTATION
AVAILABILITY; MISS

Soltis, R.F.
Wational Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OR 84135
TITLE: A Cycle Timer for Testing Electric Vehicles
Report No. DOE/NASA/1011-78/27, NASA TR-7893%,
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
KETMORDS: ELECTRIC VEHICLES: TESTING; DRIVING
CYCLE: VELOCITY: EQUIPMENT
AVAILABILITY: NTIS

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

Report No. WASA TH-73769, COM/1011-14, 68 p. 1978, June
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation RETWORDS: ELECTRIC VERICLES; HYBRID ELECTRIC-POWERED VERICLES; TESTING;

ACCELERATION: ELECTRIC VENCILE RANGE; PASSENGER TRANSPORTATION; FUEL ECONOMY; SPARK IGNITION ENGINES; PERFORMANCE; DIAGRAMS; GRAPPS (CHARIS); EWERGY CONSUMPTION AVAILABILITY: NTIS

Soltis, R.P.: Dustin, H.O.: Sargent, N.B. Hational Aeronautics and Space Administration, Levis Research Center ADDRESS: Cleveland, OH 44135 TITLE: Pesults of Baseline Testa of the Lucas

Report No. NASA TH X-73609, 27 p. 1977, January Report No. MASA TH I-73609, 27 p.
1977, January
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
ETHORDS: ELECTRIC VEHICLES: TESTING; DRIVE TRAIN
SYSTEMS; BATTERIES: PASSENGER TRANSPORTATION;
DRIVING CYCLE; PERFORMANCE; HILEAGE; EWERGY
CONSUMPTION; STAMDARDS; PHOTOGRAPHS; GRAPHS
(CHARTS); ELECTRIC VEHICLE RANGE
AVAILABILITY: 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.

RCP/W3684-01/2 for Executive Summary, 55 p.
1978, Hay
SPOMSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REYMORDS: ALTEMBATE FUELS: RAW HATERIALS:
AUTOHOTIVE FUELS: DISSEL FUELS: HARKET:
TRANSPORTATION: EMERGY FLOW; TABLES (DATA):
FORECASTING: EMERGY DEHAND: SYNTHETIC
PETROLEUH: REFIRING: PROPERTIES: OIL SHALE;
ALCOHOL FUELS: AUTOHOBILES: HETHANDI; COAL:
PRODUCTION: HYDPOCARBONS: INTERNAL COMBUSTION
ENGINES: OCTANE; GASOLINE

Tacinm, R.
Bational Aeronautics and Space Administration,
Lewis Research Center
ADDREST Cleveland, OH 44135
TITLE: Experimental Evaluation of
Presixing-Prevaporizing Fuel Injection
Concepts for a Gas Turbine Catalytic Combustor

Report No. COMS/1011-18, MASA TH-73755, paper presented at the Winter Annual Heeting, American Society of Hechanical Ergineers, Atlanta, Georgia, November 27 - December 2,

Atlanta, Georgia, November 27 - December 2, 1977, v.p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETURDES: PUEL INJECTION SISTEMS: ATOMIZATION;
EVAPORATION: DIAGRAMS: GRAPES (CHARTS): GAS TORBINES; CATALYSTS; COMBUSTORS; AUTOHOBILES AVAILABILITY: NTIS

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

Performance

Report No. DOE/NASA/1011-78/24, WASA-TH-78884, 69 1976, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KETWORDS: STIRLING ENGINES; HODELS; PERFORMANCE;
THERMODYNAHIC PROPERTIES; SHULATION;
COMPUTER PROGRAMS AVAILABILITY: GPO, Stock No. 757-139/1201

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

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

Towle, W.L.; Graae, J.E.A.; Chilenskas, A.A.; Ivins, R.O. Argonne National Laboratory ADDRESS: 9700 South Cass Ave., Argonne, IL 60%39 TITLE: Cost Estimate for the Commercial Hannfacture of Lithium/Iron Sulfide Cells for Load-Leveling

Report No. ANL-76-12, 67 p.
1976, Rarch
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: COSTS; LITHIUM/HETAL SULFIDE BATTERIES;
LOAD HANAGEMENT; UTILITIES; HANDFACTURING;
LITHIUM-ALUMINUM/HETAL SULFIDE BATTERIES; PRICES; ECONOMICS; DIAGRAMS

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

Report Mo. DOE/CS-00m3, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYMORDS: AUTOHOBILE DRIVERS: EDUCATION;
AUTOHOTIVE PUBLS; PUBL ECONOMY; AUTOHOBILES;
TRUCKS: TESTING; HEASURING INSTRUMENTS;
DRIVING CYCLE; PEEDBACK; TABLES (DATA);
GRAPPS (CHARTS); HONTHLY VARIATIONS
AVAILABILITY; NTIS

Underhill, B.; Gott, P.; Hurter, D.; Mathews, H.;

Retcalf, E.; Wicol, 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 Mybrid Vehicles

Peport No. SAM/1335-1, 164 p.
1977, September
SPOWSOB: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REYMORDS: ELECTRIC VEHICLES; HYBRID

ELECTRIC-POWERED VEHICLES; PERFORMANCE; STANDARDS; RESEARCH; QUESTIONNAIRES; SURVETS; TABLES (DATA); GRAPHS (CHARTS)

Union College, Graduate Studies and Continuing Education ADDRESS: Schemectady, NY 12308 "ITLE: Pourth Mational 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
SHONTAGES; PLANNING; EFFICIENCY; INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
INTERCITY TRANSPORTATION; RAIL
TRANSPORTATION; GOVERNMENT POLICIES; ELECTRIC

VEHICLES; RESEARCH; EMERGY CONSUMPTION

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

R.
Brookhaven Mational Laboratory, Mational Center for Analysis of Beergy Systams
ADDRESS: Upton, MY
TITLE: Light Duty Highway Fleets: The Potential for Alternative Technologies in Fleets
Operated by Cerporations and State and Local Governments

Interia Briefing, presentation will be published as "Fleet Operator Vehicles: Summer 1977 pata," Report No. BHL-50904 1978, Harch 3
SPONSOF: U.S. Dept. of Rnergy, Division of Transportation Energy Conservation RETWORDS: AUTOMOTIVE FLEETS; HODELS; FORECASTING; HARRET; VERICLE REGISTRATIONS; AUTOHOBILES; HIGHEID ELECTRIC-POWERED VEHICLES; PUCCHASING; WEIGHT: EQUIPHENT: TRUCKS; HIGHBAY TRANSPORTATION; PASSEGER TRANSPORTATION; CAPACITY; DIESEL PUELS; AUTOHOTIVE ENGINES; SIZE; TABLES (DATA)

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Congressional Committee Print, 94th Congress, 2nd Session, Serial No. 94-46 (92-136), 1359 p. 1976
SPONSOR: U.S. Senate, Committee on Interior and Insular Affairs
REWORDS: EMBERG POLICY; HISTORY; GOVERNMENT POLICIES: NATURAL RESOURCES; US PEA; US ERDA; US DOE: BIBLIOGRAPHIES; IMPORNATION; LEGISLATION

Abbott, R.K.; Kirsten, F.A.; Hullen, D.R.;
Turner, D.B.
Lawrence Berkeley Laboratory
ADDRESS: University of California, One Cyclotron
Rd., Berkeley, CA 94720
TITLR: Loconotive Data Acquisition Package:
Phase 1. Final Report

Report No. LBL-79%5, DOT/FRA/ORSD/RRD-12, 125 p.
1978, September
SPONSOR: U.S. Dept. of Transportation, Pederal
Railroad Adainistration, Office of Research
and Development
KETWORDS: LOCOHOTIVES: RAILROAD CARS; DATA
ACQUISITION; DATA ACQUISITION SYSTEMS; DATA
PROCESSING; TRANSDUCERS; INPACT SHOCK;
HECKARICAL VIDRATIONS
AVAILABILITY: HTIS

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

Report Ro. PB-266567, 31 p.
1976, June
1976, June
SPONSOR: Federal Energy Administration
KETWORDS: US FRA; FUEL ECONOMY; ENVIRONMENTAL
PROTECTION AGENCY: SURVEYS; AUTOMOBILES; FUEL
CONSUMPTION; GASOLINE; ATTITUDES;
INFORMATION; MILEAGE; CONSUMERS
AVAILABILITY: NTIS

C4> Adams, F.G.; Graham, H.; Griffin, J.H. Pennsylvania, University of, Dept. of Economics, Economics Research Branch ADDRESS: Philadelphia, PA 19104 TITLE: Demand Elasticities for Gasoline: Another Yies

Discussion Paper No 279, 15 p.
1970, June 15
REYMORDS: ELASTICITY (ECOMONICS); GASOLINE;
ENTEROY DERAND; PRICES; HATHERATICAL HODELS;
FURL CONSUMPTION; VEHICLES; INCOME; DEMAND
(RCOMONICS); WEIGHT; SIZE; TIME SERIES
ANALYSIS

Adams, G.R.
Hational Technical Information Service
ADDRESS: 5285 Port Royal Road, Springfield, VA
22161
FITLE: Dual Hode Transportation (A Bibliography
with Abstracts)
Report No. ETIS/PS-77/0490 (supersedes

Report Ro. PTIS/PS-77/0490 (supersedes BTIS/PS-76/0352 and BTIS/PS-75/287), 161 p. 1977, June KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION; SOCIO-BCOMONIC PACTORS; URBAN TRANSPORTATION; RAIL TRANSPORTATION; BAPID TRANSIT SYSTEMS; PASSENGER TRANSPORTATION; BOSES (VEBICLES); COSTS; REGIONAL PLANNING; ABSTRACTS; PERSONAL RAPID TRANSIT; COMMUNICATION; DIAL-A-RIDE; CARGO TRANSPORTATION; TRANSPORTATION SYSTEMS

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

Report No. WIIS/PS-77/0684 (supersedes WIIS/PS-77/0575, WIIS/PS-77/0292, HIIS/PS-76/0306, and WIIS/PS-75/148), 109 p. 1977, August KEWNORDS: TRAVEL: ECONOMIC IMPACT; SOCIO-ECONOMIC FACTORS; TOURISH; ECONOMIC DEVELOPMENT: RECREATION; STATE GOVERNAENT; LOCAL GOVERNMENT; PLANNING; LAND USE AVAILABILITY: HIIS

<7>
Adams, G.H. (ed.)
Hational Technical Information Service
ADDRESS: 5285 Port Royal Road, Springfield, VA
22161
TITLE: Bus Transportation. Part 1. National and
General Studies (A Fibliography with
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REWOORDS: BIBLIOGRAPHIES; BUSES (VEHICLES);
RESEARCH; SAPETY; HAINTERANCE; ENGINES;
PROPULSION: TRAVEL; DENAND (ECONOMICS);
SCHEDULING; COSTS; SUBSIDIES; ENGINEERING;
HIGHFAYS; HODELS; TRAPFIC; COMPERENCES;
PLANNING; HARRETING; AIR POLLUTION; RATES
(COSTS); FORECASTING; SIMULATION; ABSTRACTS
AVAILABILITY: NTIS

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SPONSOR: Pederal Energy Administration
KEYRORDS: INTERCITY TRANSPORTATION;
TRANSPORTATION SYSTEMS; EMERGY CONSERVATION;
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FORECASTING; AIR TRANSPORTATION; RAIL
TRANSPORTATION; BUSES (VERICLES);
AUTOMOBILES; RATES (COSTS); SOCIO-ECONOMIC
PACTORS; PUEL CONSUMPTION; TRAVEL; TABLES
(DATA); REGIONAL AWALTSIS

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

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Administration, Division of Transportation
Energy Conservation
REYMORDS: AUTOHOTIVE BHISSIONS; FUEL ECONOMY;
FIEL CONSUMPTION; GRASOLINE; HYDROGEN;
COMPARATUE EVALUATIONS; THERNAL EFFICIENCY;
TABLES (DATA); GRAPHS (CHARTS); EMGIMES;
AUTOHOBILES; AUTOHOTIVE FUELS; HYDROGEN
FIELS; HYDROGEN STORAGE; PERFORMANCE
AVAILABILITY: NITS AVAILABILITY: NTIS

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<11>Air Transport Association of America, Economics and Pinance Dept.
ADDRESS: 1709 New York Ave. NW, Washington, DC 20006
TITLE: Airline Financial Performance 1976-1977: A Look at Earnings and Heeds

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RETWORDS: FORECASTING; COMPARATIVE EVALUATIONS;
GRAPHS (CHARTS); ARR TRANSPORTATION; GROWTH;
ECONOMIC COMDITIONS; STATISTICS; FINANCIAL
DATA; EARNINGS; FROFITS; SERVICES;
PERFORMANCE; CAPITAL

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Transmission System. Phase II Final Report:
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Transportation Energy Conservation
REPTORDS: DESIGN; HISBID HISCIRIC-POWERD
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CYCLE; FUEL COMSUMPTION; COMPARATIVE
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HYDROELECTRIC POWER; URANUM ORE; SYNTHETIC
FUELS; EMERGY DEMAND; ENERGY RESOURCES;
HATERIALS; REGIONAL ANALYSIS; COMMODITIES;
ELECTRIC POWER DEMAND; DEMAND (ECONOMICS);
SUPPLY (ECONOMICS)
AVAILABILITY: GPO, Stock No. 024-001-02867-1

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

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Administration
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TECHNOLOGY; PRICES; GROSS HATIOHAL PRODUCT;
FORECASTING; HISTORY; EMERGY CONSERVATION;
TABLES (DATA)
AVAILABILITY; NTIS

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W.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, HA 02142
TITLE: Transportation Systems Center Bibliography
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1976

Report No. DOT-TSC-OST-77-17, 234 p. REPORT NO. DUTING COST 7/11, 234 p.
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SPORSOR: U.S. Dept. of Transportation, Office of
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RETWORDS: BIBLIOGRAPHIES; TRANSPORTATION; AND THE FUEL COMPONENTS HORSE (SOUND); RAILROADS; URBAN TRANSPORTATION; VRNTCLES; REVIRONMENTAL IMPACT; GOVERNMENT POLICIES; REGULATIONS; AIR TRANSPORTATION; HIGHRAY TRANSPORTATION AVAILABILITY: HTIS

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ADDRESS: P.O. Box 2691, West Pala Beach, FL
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SPONSOR: Energy Research and Development
Aministration, Division of Transportation
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KHYMONOS: DEMONSTRATION; PROCESSING; COST
ANALYSIS; PRODUCTION; FORGING; TURBINES;
AUTOMOBILES; TURBINE BLADES; ENGINES; GAS
TWRNINE ENGINES; DESIGN; HATERIALS;
FRENICATION; ROTORS; HANDFACTURING; DIAGRAMS;
GRAPPS (CHARTS); PHOTOGRAPHS; TABLES (DATA)
AVAILABILITY; HTIS

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Voltswagenwerk AG
ADDRESS: Wolfsburg, Germany
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Vehicles

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GASCLIME; COMPARATIVE EVALUATIONS; TESTING;
FUEL CONSUMPTION; EPFICIENCY; INTERNAL
COMPUSTION EMERGES
AVAILABILITY; Electric Vehicle Council, 90 Park
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VHICLE BANGE: COSTS: EWERGY STORAGE:
BATTERIES: PRICES: COMPARATIVE EVALUATIONS:
DRIVING CYCLE
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Componwealth Drive, Warrendele, PA
15096 \\$2.50

(20) Recrices Bus Association ADDFESS: 1025 Connecticut Ave., Washington, DC 20036 TITLE: Peport from the American Bus Association. America's Number 1 Passenger Transportation Service

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TABLES (DATA); PASSENGER TRANSPORTATION; ENERGY CONSUMPTION; PINANCIAL DATA; SAPETY INTERCITY TRANSPORTATION; REVENUE; ARTRAK; COMPETITION

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

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KETWORDS: HETHANOL; ALTERNATE PUELS; UTILIZATION;
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ADDRESS: 555 N. Kensington, Ave., La Grange Park,
IL 60525
FITLE: Proceedings of the 12th Intersociety
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BRAYTON CYCLE; ELECTRIC VEHICLES; BAPTERISS;
ENERGY CONSERVATION; EQUIPMENT; ENVIRONMENTAL
INPACT; INDUSTRIAL SECTOR; UNCONVENTIONAL
ENERGY SOURCES; MAGNETONIDRODINABICS; RANKING
CYCLE ENGINES; SITELING ENGINES; THERNIONICS;
ENERGY CONVERSION; DESIGN; WASTE HEAT;
INDUSTRIES; ELECTRIC POWER; SOLAR COLLECTORS;
SOLAR ENERGY; PROTOVOLTAIC CELLS;
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STORAGE EQUIPMENT; INSOLATION; WIND POWER;
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Washington, DC 20036
TITLE: Transit Fact Book, 1977-78 Edition Annual Publication, 1977-78 edition, 64 p. ABRORAL PUBLICATION, 1577-7-1976, PASS 1976, PASS 1976, PASS TRANSPORTATION; STATISTICS; MASS TRANSPORTATION; BUSES (VERICLES); PASSEMGER TRANSPORTATION; AUTOROBILES; RAIL TRANSPORTATION; REVENUE; PUBL CONSUMPTION; TABLES (DATA)

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(DATA); INTERCITY TRANSPORTATION; BRGIOGAL
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ADDRESS: 1616 P Street NW, Washington, DC 20036
FITLE: Weekly Truck Tonnage Report

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ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: Hotor Carrier Statistical Susmary

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KETWORDS: TRUCKS; STATISTICS; REVENUE; COSTS;
TAIES; CARGO TRANSPORTATION; EQUIPMENT;
SAPET; TABLES (DATA); GRAPHS (CHARTS);
EFPENSES; VEHICLE REGISTRATIONS; WAGES
AVAILABLITY: American Trucking Associations
Inc., Public Relations Dept.

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RETWORDS: WATER TRANSPORTATION; STATISTICS;
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COMMODITIES; CARGO TRANSPORTATION; COMMERCE;
RIVERS; COSTS

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ADDRESS: 1666 K Street NW, Washington, DC 20006
TITLE: Urban Hass Transportation Industry Uniform
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TITLE: Alternative Twels for Transportation:
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FUELS; EMERGY CONSERVATION; EFFICIENCY;
ENGINES; PRODUCTION; PETFOLEON; COAL;
SYNTHETIC FUELS; GOVERNMENT POLICIES; OIL
SHALE; GRAPHS (CHARTS); TABLES (DATA);
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Anderson, D.W.
National Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OR 48135
TITLE: Performance and Emissions of a Catalytic
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Energy Conservation
KEYMORDS: PROPANE: DIESEL FUELS; JET ENGINE
FUELS; PERFORMANCE; CONBUSTION; BITROGEN
OXIDES; EFFICIEMENT; EMISSIONS; COMPARATIVE
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SPONSOR: Society of Automotive Engineers
K*YMORDS: GAS TURBINES; AUTOMOBILES; GAS TURBINE
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PERFORMANCE: TESTING; AUTOMOTIVE EMISSION
CONTROL: FUEL ECONOMY: PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers,
800 Commonwealth Drive, Warrendale, PA 15096

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ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
**TITLE: Development of Lithium/Hetal Sulfide
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Summary Report for 1976

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SPONSOR: Energy Research and Development
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Energy Conservation
KETWORDS: LITHINH/METAL SULFIDE BATTERIES; ENERGY
STORAGE; HATERIALS; ELECTRODES; ELECTRIC
TILLITIES; ELECTRIC VEHICLES;
LITHINH-ALUMINUM/RETAL SULFIDE BATTERIES;
DYAGBAS DIAGRAMS AVAILABILITY: NTIS

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ADDRESS: 9700 South Cass Avenue, Argonne, IL 60439 DOF.YS
TITLE: High-Performance Batteries for Stationary
Energy Storage and Electric-Tehicle
Propulsion. Progress Reports

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SPONSOR: Energy Research and Development
Administration: U.S. Dept. of Energy
RETWORDS: EMERGY STORAGE; ELECTRIC VERICLES;
BATTERIES; PERFORMANCE; COMMERCIALIZATION;
TESTING: HATERIALS; UTILIZATION
AVAILABILITY: MTIS

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Division; Pederal Energy Administration,
Office of Hactoeconomic Impact Analysis
ADDRESS: Washington, DC
TITLE: Econometric Dimensions of Energy Demand
and Supply

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RETURES: EMERGY DEHAND; EMERGY SUPPLIES;

BCONORETRIC 'M.LYSIS; EMERGY POLICY;

GASOLIME; FUSSIL FURLS; EMERGY POLICY;

GASOLIME; FUSSIL FURLS; SIMULATION;

TABLES (DATA); INDUSTRIES; AUTOHOBILES;

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AVAILABILITY. Lexington Books, D.C. Heath and

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SPONSOR: Society of Automotive Engineers
RETWORDS: STIRLING ENGINES; THERMAL EMERGY
STORAGE EQUIPMENT; DESIGN; GRAPHS (CHARTS);
DIAGRAMS; PERFORMANCE; SALDS; HEAT PIPES;
PLOGRIDES

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

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1978, June 19
KETWORDS: PETROLEUM; PIPBLINE TRANSPORTATION;
PETROLEUM PRODUCTS; HISTORY; WATER
TRANSPORTATION; TRUCKS; RAIL TRANSPORTATION; TOWNAGE; STATISTICS; TABLES (DATA)

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

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RETWORDS: RAILROADS; EMERGY DEMAND; STATISTICS;
RAIL TRANSPORTATION; PASSENGER
TRANSPORTATION; CARGO TRANSPORTATION;
REVENUE; PIRANCIAL DATA; CAPITAL COSTS;
EMPLOYMENT; INCOME; FUEL COMSUMPTION; TABLES
(DATA); EQUIPMENT; HISTORY; TOWARGE; MILEAGE;
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(41) Association of American Reilroads, Economics and Pinance Dept. ADDRESS: Washington, DC 20036 TITLE: Indexes of Railroad Raterial Prices and Wage Rates: Railroads of Class 1

Quarterly publication, Series ORPW, & p.
KEYWORDS: RAIL TRANSPORTATION: PRICES: HATERIALS;
WAGES: INDEXES (RATIOS): FUELS; REGIONAL
ANALYSIS: TABLES (DATA)

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 Pinance Dept.
 loves: Washington, DC 20036
 PITLE: Railroads and Their Operated Hileage in
 the Several States As of December 31, 1974

62 p.
1975, December
RETUGEDS: BALLEOADS; HILEAGE; REGIONAL ANALYSIS;
CANADA; HERICO; TABLES (DATA); OPERATION;
STATE ANALYSIS

Association of American Railroads, Office of Information and Public Affairs ADDRESS: Washington, DC 20036 TITLE: Background Haterial for States

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REYHORDS: RAILROADS; REGIONAL AWALYSIS; CARGO
TRABSPORTATION; EMPLOYEES; TAXES;
COMMODITIES; HILRAGE; STATE AWALYSIS

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Report No. TID-26753, 17 p. for Vol. I; TID-26754, 65 p. for Vol. II; TID-26755, 37 p. for Vol. III 1974, November 11 1979, NOVEMBER 11
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AUTOMOTIVE ENGINES; ELECTRIC VEHICLES; US
ERDA: FREL CONSUMPTION
AVAILABILITY: HITS

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Avriel, H.
Stanford University, Dept. of Operations
Research, Systems Optimization Laboratory
ADDRESS: Stanford, CA
TITLE: Modeling Personal Consumption of Goods in
the PILOT Energy Hodel

Technical Report SOL 76-17, 31 p. Technical Report SOL 75-17, 31 p.
1976, August
576, August
576, August
Administration: Electric Power Research
Institute: Stanford University, Institute for
Energy Studies
KEIWORDS: EMERGY HODELS; IWCOME; EXPENDITURES;
WATURAL GAS: COAL; PETROLEUM; ELECTRIC POWER
DEMAND; AGRICULTURE: FOOD; WHOLESALE TRADE;
RETAIL TRADE; LTMEER; APPLIANCES;
CONSTRUCTION: HACHIWERY; GRAPHS (CHARTS);
TRANSPORTATION

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Report Ro. DOT-05-20003(Amended), IRT-287-R, V.P. 1973, March 6 SPOMSOR: U.S. Dept. of Transportation RETWOWDS: ECONOMIC AMALYSIS; AUTONOTIVE

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RHISSIONS; AUTOHOBILES; COSTS; AUTOHOTIVE INDUSTRY; REPLOTARRY; PURL CONSUMPTION; AUTOHOTIVE REGIMES; COMPARATIVE EVALUATIONS; PRICES; DRIVING CYCLE; RHPLOTARRY; OWNERSHEP; PRICES; DRIVING CYCLE; RHPLOTARRY; TABLES (DATA); RODRIS; DESIGN; POLLUTION REGULATIONS AVAILABILITY; NTIS

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Bader, C.; Plust, H.G.
Ranner (Leo) Associates
ADDRESS: Redwood City, Ch 94063
FITLE: Electric Propulsion for Road Vehicles.
State of the Art and Problems

Report No. H76-14379, MASA TT P-16819, 27 p.; translated from Elecktrotechnische Eeitschrift ausg. A, 94(11), 637-645 1975, December KETWORDS: ELECTRIC VEHICLES; BATTERIES; HYBRID ELECTRIC-POWERED VEHICLES; PROPULSION; COSTS AVAILABILITY: NTIS

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Bader, C.; Stephan, W.
Deutsche Automobilgesellschaft
Forschungslaboratorius
ADDRZSS: Germany
TITLE: Electric Vehicles in Germany - Present and Puture

Paper No. 780087, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - Merch 3, 1978, 12 p.

1978
RETWORDS: ELECTRIC VEHICLES; GERHAW PEDERAL
REPUBLIC; EMERGY STORAGE; DRIVE TRAIN
SISTEMS; PRICES; MAINTENANCE; HYBRID
EMECTRIC-POWERED VEHICLES; PHOTOGRAPHS;

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

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Balasubramaniam, H.; Jenkins, R.
TRW Inc., Energy Systems Planning Division ADDRESS: NcLean, VA 22101
TITLE: Automotive Fuel Requirements with Increasing Diesel Car Population and Implications to Refining Operations

Report No. PA 3885-22-1, v.p.
1976, January
SPONSOR: U.S. Dept. of Energy, Office of Policy
and Evaluation
RETMORDS: DISSEL ENGINES; AUTOMOTIVE FUELS;
PETROLEUM REPINERIES: PORECASTING; GASOLIME;
DISSEL FUELS; GRAPHS (CHARTS): PETROLEUM
REFINENG; DISTILLATES; SUPPLY (FCOMOMICS);
DEMAND (ECOMOMICS)

<50> <50>
Balkus, K.
Plorida State University
ADDRESS: Tallahassee, PL 32306
TITLE: Transportation Issues in Consuser
Hotivation

Paper presented at the 52nd Annual Meeting of the Highway Research Board, published in Righway Research Record No. 839, 1-9

<500 COPT.</p>
SPONSOR: National Academy of Sciences, National Research Council, Highway Research Board REYWORDS: CONSUMERS; TRANSPORTATION: ATTITUDES; DELPHI HETHOD: TABLES (DATA); QUESTIONNAIRES; MASS TRANSPORTATION
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$2.00 for Highway Research Record No. 439 CSON COPT.

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Report No. PB-276646, DOT-TSC-OST-77-64, v.p.
1977, November
SPONSOR: U.S. Dept. of Transportation,
Transportation Systems Center
*ETWORDS: FUEL ECONONY; FEEDBACK; MILEAGE;
AUTO-MOBILES; CORNUTING; TESTING; DRIVING
CYCLE; COMPARATIVE EVALUATIONS; MEASURING
INSTRUMENTS; AUTO-MOBILE DRIVERS AVATLABILITY: MTTS

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Barron, W.; Crawford, E.; Weinberg, R.
Johns Hopkins University, Center for Netropolitan Planning and Research
ADDRESS: Baltimore, ND 21218
FITIP: The Outlook for Automotive Fuel Supplies and Alternative Vehicle Engines, 1985-2010;
Implications for Transportation and State Tax
Structure

167 p.
1978, May
SPONSOR: Haryland Dept. of Transportation
RETWORDS: TRANSPORTATION; AUTOHOTIVE FUELS;
AUTOHOTIVE ENGINES; FORECASTING; TAKES;
ALTERNATE FOELS; SIMEMETIC FUELS; ELECTRIC
VERICLES; REVENUE; HIGHWAYS; HARYLAND;
ELECTRIC POWER DERAND; GASOLINE; DIESEL
FOELS; FUEL CONSUMPTION; ELECTRIC POWER
HETERS; HEAT ENGINES

Tarry, B.G.; Ramella, A.; Smith, R.B. Hobil Research and Development Corp. TITLE: Potential Passenger Car Demand for Diesel Proc and Refining Implications

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1977
SPONSOR: Society of Automotive Engineers
REYMORDS: AUTOMOBILES: DERABD (ECOMORICS): DIESEL
FUELS: PETHOLEUM REFIRING: COMPARATIVE
EVALUATIONS: GASOLINE: PUBL ECOMORY:
PPENDRANCE: AUTOMOTIVE ENISSICES
AVAILABILITY: Society of Automotive Engineers,
400 Commonwealth Drive, Warrendale, PA 15096

Pasile, P.S. (ed.) Wassachusetts Institute of Technology, Workshop on Alternative Energy Strategies ADDRESS: Cambridge, NA 02:39 (WARS)

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

to the second se

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KEYWORDS: ITALY; JAPAN; HEXICO; BETHERLANDS;
BORNAY; SWEDEN; UNITED KINGDON; UNITED
STATES; EUROPE; HODELS; INTERNATIONAL
ANALYSIS; ENERGY SUPPLIES; BRERGY DEMAND;
FORECASTING; ENERGY BALANCE; ENERGY
CONSUMETION; PRICES; GROWTH; TRANSPORTATION;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
INDUSTRIAL SECTOR; COMMERCIAL SECTOR;
INDUSTRIAL SECTOR; UNUSTRIES; FOELS; TABLES
(DATA); INTERNATIONAL TRADE; IMPORTS;
EXPOPTS; GROSS MATIONAL PRODUCT; CANADA;
DENHARK; FINLAND; FRANCE; GERRAN FEDERAL
REPUBLIC
NATIONALITY: WIT PRESS. Cambridge, NA 02139

AVAILABILITY: MIT Press, Cambridge, NA 02139 \$30.00

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Bayler, T.; Eder, L.
U.S. Dept. of Transportation, National Highway
 Traffic Safety Administration
ADDRESS: Washington, DC
TITLE: Impact of Diagnostic Inspection on
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HAINTENANCE: COSTS: TESTING: GRAPHS (CHARTS):
TABLES (OATA)

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

Searchley, M.H.; Frank, A.A.
Risconsin, University of, Engineering Experiment
Station
ADDRESS: 1500 Johnson Drive, Hadison, WI 53706
TITLE: Increased Fuel Economy in Transportation
Systems by Use of Energy Hanagement - Third
Year's Program

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the Secretary, Office of University Research
KETUORDS: CORPUTERIZED SIMULATION; FLIWHERLS:
BRISSIONS; FULL ECONOM; ENERGY CONSERVATION;
DIAGRAMS; GRAPHS (CHARTS); AUTOROBILES;
CONTRIBUOUSLY-VARIABLE TRANSMISSIONS
AVAILABILITY: HTIS

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Beechtold, R.L.
B.S. Dept. of Emergy, Bartlesville Emergy
Research Center
ADDRESS: Bartlesville, OR 74003
TITLE: ha Investigative Study of Engine Limiting

Report No. BERC/RI-77/13, 19 p.
1978, February
KETWORDS: EMGINES: FUEL CONSUMPTION; GRAPHS (CHARTS); AUTOROTIVE ENISSIONS; EPPICIENCY; TESTING; CYLINDES; TABLES (DATA); PUBL ECONONY; VELOCITY AVAILABLISTS; HIS

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Bechtold, R.L.; Flewing, B.D.
".S. Dept. of Energy, Bartlesville Energy
Besearch Center
ADDRESS: Bartlesville, OK
TITLE: Performance of Gasoline and Diesel Fuels
Produced from Coed Syncrude</pre>

Report Fo. BERC/RI-78/2, 22 p.
1978, June
REYWORDS: GASOLINE: DIESEL PUBLS: PERFORMANCE:
SYMHETIC FOELS: ALTERNATE FUELS: SPARK
IGUITION ENGINES: STIRLING ENGINES:
SYRATIPIED CHARGE ENGINES: COMPARATIVE
WYALDATIONS: TESTING: GRAPES (CHARTS): TABLES
(DATA): AUTOOTIVE EMISSIONS
AVAILABILITY: HTIS

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Bechtold, R.L.; Harshall, W.F.
Bnergy Fesearch and Development Administration,
 Bartlesville Energy Research Center
ADDRESS: Bartlesville, OK
TITLE: Valve Timing--Its Effect on Emissions and
 Fuel Economy

Report No. BERC/RI-77/9, 12 p.
1977, August
REYMORDS: PUEL ECONONY; FUEL CONSUMPTION;
AUTOMOTIVE BRISSIONS; TABLES (DATA); GRAPHS
(CHARTS); PERFORMANCE; POLLUTION CONTROL
EQUIPMENT: EFFICIENCY: NITROGEN OXIDES;
HYDROCAREONS; CABBON HONOXIDE; VALVES;
AUTOMOTIVE BRISSION CONTROL
AVAILABILITY: HTIS

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TITLE: Behavior of Car Owners During the Gasoline
Shortage

Traffic Quarterly, 30(3), 471-483
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RETHORDS: BEHAVIOR; AUTOMOBILES; OWNERS;
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TRAESPORTATION; HARKET; SURVEYS; VEHICLE
TRIPS: SOCIO-BCODORIC FACTORS; PORTLAND
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MODE CHOICE

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AUTOROSIES; AUTOROSILE OCCUPANCY; HIGHWAY
TRANSPORTATION; PRICES; GASOLIME;
AVAILABILITY; HAPS; GRAPHS (CHARTS); TABLES
(DATA) (DATA) AVAILABILITY: WTIS

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L.G.; Rubin, B.; Schwartz, M.V.; Waide, C.B.;
Walsh, W.J.
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Brookhaven Hational Laboratory; Argonae National Laboratory
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ELECTRIC-POWERED VEHICLES; ENVERGY STORAGE;
PERFORMANCE: COSTS: ENVIRONMENTAL IMPACT;
TABLES (DATA); PROPULSION; BATTERIES;
AUTOMOTIVE ENGINES; GRAPES (CHARTS);
AUTOMOBILES; COMPERCIALIZATION
AVAILABILITY: HTIS

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Voorhees (Alan H.) and Associates Inc.
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TITLE: Factors, Trends, and Guidelines Related to
Trip Length

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Bellomo, S.J.; Hehra, J.J.
Voothees (Alan H.) and Associates Inc.
ADDRESS: 7600 Old Springhouse Road, Holean, VA
22101
TITLE: Statewide Travel Porecasting Procedures
Tecluding Activity Allocation and Weekend
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Highway Administration, Office of Highway
Planning, Program Hanagement Division
REWORDS: WERKEND TRAVEL; VERICLE TRIPS;
CONDECTICUT; BECREATIONAL TRAVEL; STOCHASTIC
PROCESSES; SIMULATION; MODELS; LIPE STYLE;
DISTRIBUTION; LAND USE; PORECASTING; TABLES

Contract Contract State of Contract Contract

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

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1977
EXYMORDS: POPECASTING; NODELS; TRANSPORTATION;
PLANNING; URBAN TRANSPORTATION; DEMAND
(ECONOMICS); GOVERNMENT POLICIES; RESEARCH
AVAILABILITY: Oak Ridge Associated Universities,
P.O. Box 117, Oak Ridge, TH 37830 for entire proceedings

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Bernard, H.J.; LaBelle, S.J.; Hillar, H.;
Walbridge, E.W.
Argonne Hational Laboratory, Energy and
Environmental Systems Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL

Informal Report, Report No. ANL/EES-TM-1

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1978, March
5POMSOF: U.S. Dept. of Energy, Transportation
Energy Conservation Division, Data Analysis
Eranch
KEY*ORDS: FORECASTING: TRANSPORTATION SYSTEMS;
LIFE STYLE: ELECTRIC VERICLES; HODELS;
SOCIO-ECONORIC FACTORS; US DOS; TECHNOLOGY;
POPULATICE GROFTH: EMERGY SHORTAGES; ECONORIC
ATALYSIS; AUTONOBILES; OWNERSHIP; EMERGY
CONSUMPTION; GRAPHS (CHARTS); GASOLINE;
VERICLE MILES TRANSLED; GOVERNMENT POLICIES;
CARGO TRANSPORTATION
AVAILABILITY: NTIS AVAILABILITY: NTIS

Coby Bernhardt, W. (chairman) Folkswagenwerk AG TITLE: Proceedings: International Symposium on Alcohol Fuel Technology - Methanol and Ethanol

Peport No. CONF-771175, proceedings of conference held November 21-23, 1977, Wolfsburg, Federal Republic of Germany, English translation published by U.S. Dept. of Energy, Division of Transportation Energy Conservation, v.p. 1978, July SPONSOR: German Federal Ministry for Research and SPONSOR: German Tederal Ministry for Research an Technology (BHPT)
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Bigelow and Associates
TITLE: Integrated Economic-Social-Environmental
Planning

Paper presented at the 54th Annual Meeting of the Transportation Research Board, published in Transportation Research Record 565, 25-32

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SPONSOR: National Academy of Sciences,
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RETWORDS: SOCIO-ECOMONIC FACTORS; ENVIRONMENTAL
INFACT; TRANSPORTATION SISTEMS; PLANNING;
GOVERNMENT POLICIES; LAND USE; CITIZERS GROUPS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
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Billing, J.R.; Grouni, H.N.; Vuchic, V.R.
Ontario Ministry of Transportation and
Communications, Research and Development
Division; Pennsylvania, University of, Deptof Engineering
ADDRESS: ONTC, Ontario, Canada; UP, Philadelphia,
pa PA
TITLE: Design of Elevated Guileway Structures for
Light Rail Transit (Abridgment) (Discussion) Paper published in Transportation Research Record 627, 17-21 (Discussion p. 20) 1977
SPONSOF: National Academy of Sciences,
Transportation Research Board
RETWORDS: RAPID TRANSIT SYSTEMS; DESIGN;
RIGHT-OF-WAY: PERFORMANCE: ELEVANTED 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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SPONSOR: Energy Research and Development
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Bisselle, C.A.
Mitre Corp.
ADDRESS: McLean, VA 22101
TITLE: A Preliminary Assessment of Empty Hiles
Traveled by Selected Regulated Motor Carriers

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

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Bjerklie, J.W.; Cairns, E.J.; Tobias, C.W.;

Wilson, D.G.
Hague International; Argonne Hational Laboratory;
California, University of; Hassachusetts
Institute of Technology
ADDRESS: HI, The Hague, Metherlands; AML, 9700
South Casm Avenue, Argonne, IL 60439; CU,
Herkeley, CA 94720; HIT, Casbridge, HA 02139
TITLE: An Evaluation of Alternative Power Sources
for Low-Paission Automobiles

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Heeting, Detroit, Hichigan, October 13-17,
1975
SPOMSON: Society of Automotive Engineers
KEYWORDS: AUTOHOTIVE EMISSIONS; EMGIMES; RANKINE
CYCLE ENGINES: STIRLING EMGIMES; RANKINE
CYCLE ENGINES: STIRLING EMGIMES; ELECTRIC
VERICLES; GRAPHS (CHARTS); COSTS; COMPARATIVE
EVALUATIONS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

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Blonquist, A.P.; Hikel, S.A.
Chrysler Corp.
ADDRESS: Detroit. HI
TITLE: The 1978 Chrysler Torque Converter Lock-Up
Clutch
Paper No. 780100, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Richigan,
Yebruary 27 - Harch 3, 1978, 9 p.

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AUTOMOBILE TRANSHISSIONS; DIAGRAMS: DESIGN;
PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Sobit, E.J.; Hornkohl, C.; Dunlap, J.R.
Bobit Publishing Co., Research Dept.
ADDRESS: 2500 Artesia Boulevard, Redondo Beach,
CA 90278
FITTE: Report on the Aspects of Automotive Pleet
Operations on Transportation Energy
Conservation
Report Ro. ORBL/Sub 77/1926/1, v.p.
1977, August 8
SPOUNDOR: Energy Research and Development
Administration; Oak Ridge Mational Laboratory
KENTORDS: AUTOMOTIVE PLEETS; LEASING: TRUCKS;
HILEAGE: RETAIL TRADE; PORECASTING: OPERATING
COSTS: MAINTEMBARCE; REPAIR: ELECTRIC
VEHICLES: INSURANCE; TAZES; AUTOMOTIVE
ENGINES; STATISTICS; OWNERSHIP; AUTOMOBILES;
FUEL ECOMORY; TABLES (DATA); VEHICLE
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Report No. PB-270625, AGERS-32, 26 p.
1977, July
KEYNORDS: CARGO TRANSPORTATION: RATES (COSTS);
TRUCKS; REPRIGERATION; PRUITS; CALLFORNIA;
PLORIDA; TEXAS; TABLES (DATA); VEGETABLES;
COSTS
AVAILABILITY: HTIS

Bolger, J.G.; Epps, R.C.; Jansen, J.P.; Biller, A.P.; O'Connell, L.G.
Lawrence Liversore Laboratory; Lawrence Berkeley
Laboratory
ADDRESS; LLL, University of California,
Liversore, CA 94550; LBL, Berkeley, CA 94720
TITLE: Application of Energy Storage Power
Systems to Monhighway Transportation

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1977, Nay
SPONSOR: Energy Research and Development
Administration
REMYORDS: TRANSPORTATION; EMERGY STORAGE; EMERGY
COMSUMPTION: RAIL TRANSPORTATION; RAPID
TRANSIT SYSTEMS; BATTERIES: DEVELOPMENT;
FLYWHEELS; GRAPHS (CHARTS); TABLES (DATA);
AVIATION; MARINE TRANSPORTATION; PIPELIMES
AVAILABILITY: NITS

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ADDRESS: University of California, Berkeley, CA
TITLE: Investigation of the Feasibility of a Dual
Hode Electric Transportation System
Report No. LBL-6301, 159 p.
1977, Hay
SPORSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: HIGHWAY TRANSPORTATION: TRANSPORTATION

Bolger, J.G.; Kirsten, P.A.

Administration, Division of Transportation
Energy Conservation
KEYORDS: HIGHART TRANSPORTATION; TRANSPORTATION
SYSTEMS; ELECTRIC VEHICLES; EMERGY STORAGE;
DUAL MODE ELECTRIC TRANSPORTATION SYSTEM;
TABLES (DATA); DESIGN; MAGNETIC FIELDS;
GRAPHS (CHARTS); CALIFORNIA; COSTS; ALTERNATE
FUELS; COMPARATIVE EVALUATIONS; SAFETI
AVAILABILITY; NTIS

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

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1971 SPONSOR: Society of Automotive Engineers
KRIWORDS: DIESEL ENGINES: PUBL CONSUMPTION:
COOLANTS: OILS: TEMPERATURE: GRAPHS (CHARTS); TRETTYG

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

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**Assachusetts Institute of Technology, Dept. of
Urban Studies and Planning
ADDRESS: Casbridge, MA 02139

TITLE: Some Conditions of Hacrosconosic Stability
in **ultiregional Nodels

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1975, September
SPOHSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
KEYWORDS: IMPUT-0UTPUT AWALYSIS: MODELS:
COMPARATIVE EVALUATIONS: REGIONAL MALYSIS: TRANSPORTATION; TRADE; COMMODITIES; ECONOMICS AVAILABILITY: NTIS

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1977, December
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation,
Mon-Highway Transport Systems
FEYWORDS: ENERGY CONSHIPTIOS. MARINE
TRANSPORTATION: ORECASTING; CARGO
TRANSPORTATION: OREAT LARES; WATER
TRANSPORTATION: WATERNAY TRANSPORTATION:
COASTAL REGIONS; RECREATION VEHICLES; FISHING
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19/8, Pebruary
SPONSOR: U.S. Dept. of Transportation, National
Mighway Traffic Safety Administration
REYWORDS: FOEL ECONOMY: BEHAVIOR; CONSUMERS;
AUTOHOBILES; SURVEYS; ATTITUDES;
TRANSPORTATION

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1977, December
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration, Bus Projects
Division
KEYNOROS: TRANSBUS; BUSES (VENICLES); DESIGN;
ENGINEERING; TESTING; PRODUCTION; SAPETY;
PASSENGER TRANSPORTATION; HUMAN COMPORT;
OPERATION; TRANSPORTATION DISADVANTAGED;
TABLES (DATA); HAMUPACTURERS; PHOTOGRAPHS;
GRAPHS (CHARTS); DIAGRANS
AVAILABILITY; HTIS

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REYWORDS: BUSES (VEHICLES); DESIGN; DIAGRAMS;
PHOTOGRAPHS; PASSENGER TRANSPORTATION;
SPECIFICATIONS; TRANSBUS; CHARACTERISTICS
AVAILABILITY: NTIS

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Boretsky, M.
U.S. Dept. of Commerce
ADDRESS: Washington, DC
TITLE: Opportunities and Strategies for Energy
Conservation

Technology Review, 79(8), 57-62

1977, July/August
KETWORDS: EBERGY CONSERVATION; ENERGY
CONSUMPTION; GROSS NATIONAL PRODUCT;
INDUSTRIAL SECTOR; PRODUCTION;
TRANSPORTATION; ENERGY SOUPCES; COMPARATIVE
EVALUATIONS; RESIDENTIAL SECTOP; EFFICIENCY;
ELASTICITY (ECONOMICS); PRICES; EMERGY
DEMAND; AUTOMOBILES; LIPE STILE; UNITED
KINGDOM; FRANCE; GERMAN FEDERAL REPUBLIC;
NETHERIANDS: BELGIUM: NORMAY: SHEDER; ITALY: NETHERLANDS; BELGIUM; HORWAY; SWEDEN; ITALY; JAPAN

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KEYMORDS: LAND USE; PLANNING; TRANSPORTATION
SISTEMS; URBAN AREAS; TRAFFIC CONTROL;
VERICLE PARKING
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
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<88> Brennand, J. General Research Corp. ADDRESS: Santa Barbara, CA

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LITRIUM/METAL SULFIDE BATTERIES; ELECTRIC
VEHICLES: REFERENCE, UNESCON: PRESENCE.

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

TITLE: Lithium Requirements for High-Energy Lithium-Aluminum/Iron Sulfide Batteries for Load-Leveling and Electric-Vehicle Applications

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

SPORSOR: Energy Research and Development Administration, Assistant Administrator for

Administration, Assistant Administrator for Conservation
KPYMORDS: LITHIUM-ALUMINUM/IRON SULFIDE STORAGE; ELECTRIC VEHICLES; EMERGY STORAGE; LOAD HAWAGEBERT: ELECTRIC UTILITIES; DEMAND (ECONOMICS); FOR ECASTING; LITHIUM-ALUMINUM/RETAL SULFIDE BATTERIES AVAILABILITY: NTIS

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Chicqioji, H.H.
Energy Research and Development Administration,
Division of Buildings and Industry
ADDRESS: Washington, DC
TITLE: Roadway Decision-Making and Implications
for Energy Tise - Some Economic Considerations

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

RETRORDS: HIGHWAYS; CAPITAL COSTS; EMERGY COMSUMPTION: PRICES; CONSTRUCTION: HARRIALS RVAILABILITY: Mational Academy of Sciences, Mational Research Council, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$6.00 for TRB Special Report 166 KETWORDS: HIGHWAYS: CAPITAL COSTS: BRERGY

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Ciachette, I.R.
Cianbro Corp.
TITLE: Contractors' View on Optimizing Materials

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

KETFORDS: HIGHWAYS; MATERIALS; RMERGY
CONSUMPTION; CONSTRUCTION; CEMENTS; ASPHALTS;
STANDARDS
AVAILABLITY: Mational Academy of Sciences,
Mational Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 2001B 36.00 for TRB Special
Report 166

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

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

1976
RETURNS: FUEL COMSUMPTION: AUTOROBILES;
GASOLINE; DIESEL FUELS; STRATIFIED CHARGE
ENGINES; EUROPE; COMPUTENIZED SINULATION;
COMPARITY E EVALUATIONS; AUTOMOTIVE
ENISTIONS; TABLES (DATA); GRAPHS (CHARTS);
EFFICIENCY; PERFORMANCE
AVAILABILITY: Society of Automotive Engineers
INC., 400 Commonwealth Drive, Warrendale, PA
15096

(137) Civil Aeronautics Board, Bureau of Accounts and Statistics, Economic Evaluation Division ADDRESS: Washington, DC 20828 TITLE: Aircraft operating Cost and Performance Report for Calendar Years 1975 and 1976

Annual report, Volume II, 134 p. Annual report, volume AL, 13- p.
1977, July
KEYNORDS: AIRCRAFT: OPERATING COSTS; PERFORMANCE;
TABLES (DATA); FINANCIAL DATA; STATISTICS;
TRAFFIC; CAPACITY: AIR TRANSPORTATION
AVAILABILITY: GPO, Stock No. 003-006-00073-5

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Supplemental Carrier Jet Trends, 2nd Edition, 45 P.
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RETURNS: AIRCRAFT; OPERATING COSTS; PERFORMANCE;
OPERATION; HISTORY; STATISTICS; TABLES
(DATA); COSTS; JET AIRCRAFT; AIR
TRANSPORTATION

<133> Civil Aeronautics Board, Bureau of Accounts and Statistics, Economic Evaluation Division ADDRESS: Washington, DC 20428 TITLE: Airline Equipment Reeds and Financing Through 1985

46 p.
1976, Hovember
KEYWORDS: AIR TRANSPORTATION; EQUIPMENT;
FORECASTING; PINANCING; TRAFFIC; CAPACITY;

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<135> Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division ADDRESS: Washington, DC 20428 TITLE: Commuter Air Carrier Traffic Statistics: 12 Honths Ended June 30, 1977

Annual Peport, 40 p.
1977, Hovenber
KETWOPDS: COMMUTERS; AIECRAFT; TRAFFIC;
STATISTICS; AIE TRAWSPORTATION; TABLES
(DATA); PASSEMORE TRAWSPORTATIOH; CAEGO
TRAWSPORTATION; AIRPORTS

<135> Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division, Pinancial and Traffic Data Section ADDRSS: Washington, DC TITLE: Truck Carriers—Coach Class: Traffic, Revenue, Yield, Emplanements and Average On-Flight Trip Length by Fare Category (88 State Basis)

Ronthly publication, formerly titled "Coach Traffic, Revenue, Field and Average On-Flight Trip Length by Fare Category for the 45-State Operations of the Dosestic Trunks", v.p. Bonthly RETWORDS: TRAFFIC; REVENUE; REGIONAL ANALYSIS; TABLES (DATA); PASSENGER EMPLANEMENTS

<136> Civil Aeronautics Board, Bureau of Operating Rights, Standards Division ADDRESS: Washington, DC 20428 TITLE: A Profile of Airline Service in the 48 Contiguous States, June 1, 1975

1977, June 1
RETTORDS: AIR TRANSPORTATION; TABLES (DATA);
REGIORAL ABALTSIS; SERVICES; AIRCRAFT;
PASSEMBER TRANSPORTATION; POPTIATION
(STATISTICS); URBAN AREAS; STATISTICS;
PASSRUGER EMPLAMEMBERTS

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

83 p.
1977, July
KRINGPOS: PASSENGER EMPLANEMENTS; PASSENGER
TRANSPORTATION; AIRPORTS; AIRCRAFT;
STATISTICS; TABLES (DATA); REGIONAL AWALYSIS;
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95 p.
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KEYWORDS: AIRPORTS; PASSENGER TRANSPORTATION; AIR
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STATISTICS; TABLES (DATA); PASSENGER
EMPLANEMENTS; SERVICES

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Civil Aeronautics Board, Pinancial and Traffic Data Section; U.S. Dept. of Transportation, Federal Aviation Administration, Office of Hanagement Systems
ADDRESS: CAB, 1825 Connecticut Ave. SW, Washington, DC 20428; DOT/FAA, 800
Independence Ave. SW, Washington, DC 20591
TITLE: Airport Recivity Statistics of Certified Boute Air Carriers for 12 Nonths Ended December 31, 1976

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1976, December 31
REYMORDS: STATISTICS; AIRCRAFT; AIRPOPTS; TABLES
(DATA); SCHEDULING; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
STATE ANALYSIS; PASSENGER EMPLANEMENTS AVAILABILITY: NTIS

<140> Clark, J.W.
Washington, University of, Urban Transportation
Program
ADDRESS: Seattle, WA 98105
TITLE: Directing the Evolution of Urban Land Use
to Achieve Improved Transportation System
Performance

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

1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
REWORDS: GROWTH: URBAN AREAS: TRAVEL: POPULATION
GROWTH: FORECASTING: MASSINGTON: EMPLOYMENT:
TRANSPORTATION SYSTEMS: PEPFORMANCE:
COMPUTERIZED SIMULATION
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
86.00 for Transportation Research Record No.
565

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

ADDRESS; ALV.

DC

TITLE: Strategies for Reducing Gasoline

Consumption Through Improved Motor Vehicle

Efficiency. A Report of an Informal

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Dept. of Transportation, Transportation
Systems Conter
RETWORDS: GASOLINE; CONSUMPTION; VEHICLES;
EPPICIENCY; AUTONOBILES; SALES; FUEL
CONSUMPTION; HARRET; ERERGY CONSERVATION;
FORECASTING; DEBAND (ECONOMICS); SPEED

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AVAILABILITY: \$2.40

Clark, H. (ed.)
Rational Academy of Sciences, Mational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Optimizing the Use of Materials and Energy
in Transportation Construction Transportation Research Board Special Report 166, proceedings of a conference held November 12-14, 1975, 74 p.

1976
SPONSOR: U.S. Dept. of Transportation, Federal
Highway Administration; Federal Energy
Administration; Energy Research and
Development Administration
KEYFORDS: EMERGY CONSUMPTION; TRANSPORTATION;
CONSTRUCTION; HIGHWAYS; HATERIALS; EMERGY
CONSERVATION; ASPHALTS; SULFOR; CEMENTS;
FORECASTING; EMERGY SHORTAGES; PETROLEUN;
GRAPPS (CHARTS); COSTS
AVAILABILITY: \$6.00

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

REFINENCE TO THE TRANSPORTATION:
ENGINEERS TRAFFIC CONTROL: PARKING:
TRASPORTATION: ATTOROBILE OCCUPANCY:
GOVERNMENT POLICIES: CARGO TRANSPORTATION:
PARKING: US DOT: REGULATIONS: URBAN AREAS;
AUTOROBILES: PASSENGER TRANSPORTATION: PUBLIC AVAILABILITY: \$6.80

<144> Clark, F. (ed.)
Rational Academy of Sciences, Mational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NV, Washington, 20818 TITLE: Dual-Hode Transportation

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

1976 1976
RETWORDS: PUBLIC TRANSPORTATION: DUAL-HODE BUS
SYSTERS; SCHEDULING; RIGHT-OF-WAT; URBAN
TRANSPORTATION; BUSES (VEHICLES); TRANSIT
STATIONS; TRAFFIC CONTROL; HAINTEWARCE;
CAPACTTY; SAPETT; AUTOHATED GUIDEWAY TRANSIT
AVAILABILITY: \$6.40

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

Transportation Research Board Special Report 177, report of conferences held February 23-26, 1975, at Airlie House, Virginia, and March 23-April 1, 1976, at Hunt Valley, Haryland,

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SPONSOR: U.S. Dept. of Transportation, Urban Hase Transportation Administration REYNORDS: GOVERNMENT POLICIES: URBAN TRANSPORTATION; US DOT: FOUDING: PLANNING: COMPERENCES: CONSTRUCTION; PINANCING AVAILABILITY: \$2.00

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Clarkey, A.
Emergy Research Corp.
ADDRESS: Danbury, CT
TITIE: Development of Large Size Wickel-Zinc
Cells for Electric Vehicles

Paper presented at the Fourth International
Electric vehicle Sysposius (sponsored by the
Electric vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 16 p.
1976, September
REFRORDS: MICKEL-ZINC BATTERIES; ELECTRIC
VEHICLES; RESEARCH; ELECTRODES; ELECTROLYTES;
PERFORMANCE; BATTERY SEPARATORS
AVAILABLIATT: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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

Third Edition, v.p. 1974 1974
REYNORDS: RAILROAD CARS; RAIL TRANSPORTATION;
LOCOMOTIVES; DESIGN; CARGO TRANSPORTATION;
PASSENGER TRANSPORTATION; EQUIPMENT; DIESEL
BROINES; SAFETT; HAINTENBARCE; PHOTOGRAPHS;
DIAGRAMS; MANUFACTURERS
AVAILABILITY; STROMS-BOATCHAIN Publishing Corp.,
350 Broadway, New York, NY 10013

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Cohen, G.S.; Eribaus, H.S.; Hartgen, D.T.
Hew York State Dept. of Transportation, Planning and Research Sureau, Planning Research Unit
ADDRESS: Albany, NY 1223
TITLE: Intercity Rail Patronege in the HYC Buffalo Corridor: Hodels and Forecasts.
Yolume III

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

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CITY; BUFFALO (NEW YORK); HODELS;
FORECASTING; COMPRITION; AIR TRANSPORTATION;
AUTOMOSILES; BUSES (VERICLES); BLASTICITY
(BCOMOMICS); DEMAND (ECOMOMICS);
TRANSPORTATION RODE CHOICE; TABLES (DATA);

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Report No. ADA-036579, CG-D 7-77, MSR 76-42, 93 p. 1976, July
SPONSOR: U.S. Dept. of Transportation, Coast
Guard, Office of Research and Development
RETHORDS: REGULATIONS; RECREATION VEHICLES; BOATS; SAFETY; HODELS; FORECASTING AVAILABILITY: HTIS

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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.
1977, May
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology; U.S. Dept. of Transportation,
Transportation Systems Center
KETWORDS: AUTOHOBILE TRANSHISSIONS; FUEL BCOWONY;
AUTOHOBILES: ACCELERATION; AUTOHOTIVE
EMISSIONS; COMPUTERIZED SIMULATION;
PERFORMANCE; FUEL COMSUMPTION; GRAPHS
(CHARTS); DIAGRAMS
AVAILABILITY: MIIS

<151> Clores V.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

23 p.
1976, September 17
REYWORDS: TRANSPORTATION; GOVERNMENT POLICIES;
REGULATIONS; ENERGY CONSERVATION; SUBSIDIES;
RAIL TRANSPORTATION; ATE TRANSPORTATION;
URBAN TRANSPORTATION; COAL; PETROLEUR;
SAFETY; ENVIRONMENTAL IMPACT

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

Releasable Memorandum, Report No. RH-2101, 47 p. Releasable Hemoriandum, Report No. MH-2101, 47 y. 1976, January SPONSOR: U.S. Dept. of Energy REYMORDS: ELECTRIC VERICLES; FORECASTING; EMERGY CONSUMPTION; PETFOLETH; ATTOMOBILES; HODELS; ELECTRIC POWER GENERATION; BATTERY CHARGING;

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

<153> Control Data Corp.: Wells Research Co.
ADDRESS: CDC, 607 Valleybrook Drive, Silver
 Spring, MD 20904; WRC, 6003 Executive Blvd.,
Rockville, MD
TITLE: Trends in Bus Transit Operations:
 1960-1974

Report No. PB-266748, DOT-TPI-10-77-14, 134 p.
1977, January
SPOMSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans, and
International Affairs; U.S. Dept. of
Transportation, Urban Hass Transportation
Adainistration
KEYSORDS: BUSES (VEHICLES); TABLES (DATA); GRAPHS
(CHARTS); COSTS; URBAN TRANSPORTATION; FUEL
CONSUMPTION; UTILIZATION; PUBLIC
TRANSPORTATION; FINANCIAL DATA; PASSENGER
TRANSPORTATION; REVENUE; EMPLOYMENT; HISTORY;
SERVICES Report No. PB-266748, DOT-TPI-10-77-14, 134 p.

AVAILABILITY: RTIS

<158> Cook, J.A.; Fucinari, C.A.; Lingscheit, J.W.; Rahnke, C.J. Ford Motor Co. 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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SPONSOR: Emergy Research and Development
Administration, Division of Transportation
Emergy Conservation
KETWORDS: STIRLING ENGINES; HEAT EXCHANGERS;
COSTS: PERFORMNCE; REGEMERATORS; GAS TURBINE
ENGINES; DIAGRAMS; GRAPHS (CHARTS); TABLES
(DATA): STRESS ANALYSIS; THERNODYNAHICS
AVAILABILITY: HTIS

Clooper, J.F.; Borg, I.T.; O'Connell, L.G.; Behrin, R.; Rubin, B.; Wiesner, H. Lawrence Livermore Laboratory ADDRESS: University of California, Livermore, CA TITLE: Lithium Requirements for Electric Vehicles Using Lithium-Water-Air Batteries Report No. UCRL-77440, COMP-760112-2, paper prepared for the Symposium on United States Lithium Resources and Requirements by the Year 2000, January 22-24, 1976, Lakewood, Colorado, 18 p.
1975, November 12
SPONSOR: Energy Research and Development Administration RETWORDS: ELECTRIC VEHICLES; LITHIUM-WATER-AIR BATTERTES: LITHIUM-WATER-AIR REMORDS: BLECTRIC VEHICLES; LITHIUM-WAIS BATTERIES; LITHIUM; BATTERIES; DEMAND (ECONOMICS); FORECASTING AVAILABILITY: NTIS

Corrigan, R.; Rirachten, J.D.; Samuelson, R.J. TITLE: The Carter Energy Plan - Some Answers to the Questions <156>

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Bational Journal, 710-12 (Hay 7, 1977;
1977, Hay 7
RETWORDS: WATIOWAL EMERGY PLAW; EMERGY POLICY;
EMERGY COMSERVATION; FUEL CONSUMPTION;
PESIDEBTIAL SECTOR; INDUSTRIAL SECTOR;
INCRETIVES; ECOMOMIC IMPACT; PETROLEUM;
BATURAL GAS; AUTOMOBILES; TRAMSPORTATION;
PRICES

<1575 C157>
Corsi, T.H.: Harvey, H.E.
Maryland, University of, College of Business and
Management; Kent State University
ADDRESS: MU, College Park, HD; KSU, Kent, Ohio
44280 TITLE: Travel Behavior Under Increases in

Traffic Quarterly, XXXI(4), 605-624 Trattic quatterly, xall(4), 603-624
1977, October
REYWORDS: TRAVEL; BEHAVIOR; GASOLINE; PRICES;
TABLES (DATA); SOCIO-ECONORIC FACTORS;
ATITUDES; QUESTIONHAIRES; SURVEYS; INCOME;
WISCONSIN; GOVERNMENT POLICIES; ALLOCATIONS

Gasoline Prices

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

Weekly publication, v.p. weekly Keywoods: Autonobiles: Engines: Diesel Engines: OPDS: AUTOHOBILES; EMGINES; DIESEL EMGINES
HAUDIACTURERS; PUBL ECONOMI; PRODUCTION;
VANS; TRUCKS; COMSUMERS; TIRES; ELECTRIC
VEBICLES; FIDEL DIL; EMISSIONS; AUTOHOTIVE
TRANSMISSIONS; ROAD TESTS; SALES; IMPORTS;
EXPORTS; COSTS; TIRES; BUSES (VEMICLES);
PRICES; AUTOHOTIVE INDUSTRY; INTERNATIONAL
ANALYSIS; PHOTOGRAPHS; DESIGN; ADVERTISING

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

Paper presented at the Fourth International
Electric vehicle Symposium, held in
Dusseldorf, Germany, August 31 - September 2,
1976, 28 p.
1976, September
KEIWORDS: ELECTRIC VEHICLES: TRUCKS; EMERGY
CONSERVATION; AUTOHOTIVE FLEETS; AIR QUALITY;
DEVELOPMENT; CUPERTIMO (CALIFORMIA); COSTS;
AUTOHOTIVE ENISSIONS; TABLES (DATA);
COMPARATIVE EVALUATIONS; GRAPPS (CHARTS);
FIEL CONSUMPTION; FUEL ECONOMY; POSTAL SERVICE
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<160> CTOP.
Crier, F.S.
Washington Center for Hetropolitan Studies
ADDRESS: 1717 Hassachusetts Avenue NV,
Washington, DC 20036
TITLE: "The Energy Crisis and Low-Income
Assericans: An Analysis of Impact and Options

171 p. 1977, June

SPONSOR: Community Services Administration
RETHORDS: INCORE; LOW INCOME GROUPS; COSTS;
SOCIO-ECOMONIC FACTORS; EMERGY COMBUNITION;
RESIDENTIAL SECTOR; BEHAVION; EMERGY
CONSERVATION; TRANSPORTATION; HOUSING; SPACE
HEATING; AUTOMOBILES; TABLES (DATA); SURVEYS;
FUEL CONSUMPTION; EMERGY SHORTAGES

<161> Cuffe, K.W. General Motors Corp., Harrison Radiator Division ADDRESS. Lockport, NY TITLE: Air Conditioning and Heating Systems for

Report No. SAE/SP-78/425, 44 p. 1978 1978
KEYMORDS: TRUCKS; AIR COMDITIONING; DESIGN;
PREFORMARCE; HUMAN CONFORT; ENGINEERING;
THERMAL CONFORT; DIAGRAMS; GRAPES (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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

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

<163> Cyrus, J.D.
Sandia Laboratories
ADDRESS: Albuquerque, NM 87115; Livermore, CA
94550 94550 TITLE: Proceedings of the Hybrid Vehicle Interest and Capability Assessment Workshop

Report No. SAND 76-0645, conference held

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1977, Harch SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation RETWORDS: HYBRID ELECTRIC-POWERED VEHICLES; COFFERENCES; HEAT ENGINES; SYSTEMS ANALYSIS; SYORAGE; AUTOMOTIVE CONTROL SYSTEMS AVAILABILITY; HTIS

(164)
Dajani, J.S.; Stortstrom, R.G.; Warner, D.B.
Duke University, School of Engineering, Dept. of
Civil Engineering; Duke University, Duke
Environmental Center
ADDRESS: Durham, NC
TITLE: The Potential for Helicopter Passenger
Tender of the Address of Tender Control Service in Rajor Urban Areas

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

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COMPUTERISED SIMULATION; COSTS; TABLES
(DATA); REGIONAL ANALYSIS; URBAN AREAS;
INTERCITY TRANSPORTATION; PASSENGER
TRANSPORTATION; AIRPORTS; URBAN TRANSPORTATION
AVAILABILITY: BTIS

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Data Resources Inc.
ADDRESS: Lexington, HA
TITLE: A Study of the Demand for Gasoline
Final Report, Report Ho. PB-235254, 146 p.
1974, July
SPOMSOR: Executive Office of the President,
Council on Environmental Quality; U.S.
Environmental Protection Agency
KEYWORDS: GASOLIME: PRICES: FUEL COMSUMPTION:
DEMAND (ECONOMICS): TAXES: YERICLES: GROSS
MATIONAL PRODUCT: INCOME: ECONOMETRIC HODELS:
FORECASTING: AUTOMOBILES: TABLES (DATA):
ELASTICITY (ECONOMICS): ECOMOMIC IMPACT
AVAILABILITY: HTIS

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Davis, D.D.: O'Connell, L.G.: Warner, S.E.:
 Faynard, A.E.: Rowlett, B.H.
Lawrence Liversore Laboratory: Airesearch
 Haudacturing Co.
ADDRESS: LLL, Berkeley, CA
TITLE: Battery-Plywheel 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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1976, April 15
SPONSOR: Bearcy Research and Development
 Administration
RETFORDS: TRANSPORTATION: BATTERIES; FLYNHEELS;
 HYBRID ELECTRIC POWERD VRHICLES; EMERGY
 COMSUMPTION; ALTERNATE FORES; ELECTRIC
 VENICLES; LEAD-ACID BATTERIES; PERFORMANCE;
 PETROLEUM; EMERGY DEHAND; DESIGN; BLECTRIC
 VENICLES; RANGE</pre>

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Davis, D.D.: Renner, R.A.: Younger, P.C.: Epps,
R.C.: Letner, S.S.
Lavrence Liversore Laboratory
ADDRESS: University of California, P.O. Box 808,
Liversore, CA 98550
TITLE: Determination of the Effectiveness and
Peasibility of Regenerative Braking Systems
on Riectric and Other Automobiles. Volume I
- Summary
Report No. UCRL-52306/1, 74 p.
1977, September 9
SPOMSOR: Emergy Research and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: Electric VENICLES; HYBRID
ELECTRIC-POWERD VERICLES; HYBRID
ELECTRIC-POWERD VERICLES; HYBRID
ENAMING; HISTORY: RECOVERT; UTILIZATION;
FLYWINGERS; POWER TRAIN SYSTEMS; DIAGRAMS;
BATTERIES; TABLES (DATA): GRAPHS (CHARTS);
COSTS: FRASIBILITY
RVAILABILITY: HTIS

<168> Davie, b.B.; Renner, R.A.; Tounger, P.C.; Epps,

R.C.; Lerner, S.S.
Lawrence Liversore Laboratory
ADDRESS: University of California, Liversore, CA
94550

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

Report No. UCRL-52306/2, v.p.
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FONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYORDS: AUTOMOBILES: EMERGY STORAGE;
TECHNOLOGY: ELECTRIC VEHICLES; ESGEMENTIVE
BRAKING; HISTORY; DEVELOPMENT; TESTING;
TRANSPORTATION; COST ANALISIS; TABLES (DATA);
PATENTS; RIBRID ELECTRIC-POWERED VEHICLES:
EMERGY COMSERVATION; BATTERIES

AVAILABILITY: NTIS

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

Report No. HCP/N5812-01, v.p.
1978, May
SPONSOR: U.S. Dept. of Energy, Assistant
Secretary for Conservation and Solar
Applications, Transportation Programs Office
KEYGRDS: INSTITUTIONAL FACTORS; REGULATIONS;
VANPOOLS: LIABLILITES; INSURANCE; TAXES;
OPERATION; GOVERNMENT POLICIES; LEGAL
ASPECTS; STATE ANALYSIS
AVAILABILITY: GPO, Stock No. 061-000-00085-2

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

Pinal Report, Report No. PB-267912,
DOT-TST-77-35, 26 p.
1977, January
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
KEYMORDS: PASSENGER TRANSPORTATION; URBAM
TRANSPORTATION; DEVELOPHENT; GOVERNMENT
POLICIES: TAXICABS: BUSSE (VEHICLES);
AUTOHOTIVE FLEETS; PUBLIC TRANSPORTATION;
COMSUMERS
AVAILABILITY: NITS

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

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

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

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Demotsky, M.J.; Hoel, 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

Final Report, Report No. PB-269956, DOT-TST-77-46, UVA/529036/CE76/102, 124 p. DOT-TST-//-wo, win/--1976, December
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SPONSOR: J.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
KEYWORDS: DESIGN: URBAN TRANSPORTATION; HASS
TRAPSPORTATION; BUILDINGS; TRANSIT STATIONS

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

Peport No. SAND77-0001, v.p.

TOTAL TRANSPORTATION: AT TABLES (DATA)

AVAILABILITY: HTIS

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Constant G.; Sweezy, H.; Van Duzee, R.
Systems Analysis and Research Corp.; U.S. Dept.
of Transportation, Federal Aviation
Administration
ADDRESS: SAPC. 1801 K Street NW, Washington, DC;
TSDOT/FAA, 800 Independence Avenue SW,
Washington, DC 20006
TITLE: Porecasts of Commuter Airlines Activity

Peport Ho. FAR-AFP-77-28, 139 p. 1977, Jn1* SPONSOR: U.S. Dept. of Transportation, Pederal Aviation Administration, Office of Aviation AVAILATION AGRIDISTRATION, OFFICE OF AVAILATION POLICY RETURNS: AVIATION: AIR TRAWSPORTATION; ASSENGER TRAWSPORTATION; COUNTING: FORECASTING; REGIOWAL ANALYSIS; HODELS; REVENUE; HISTORY; TABLES (DATA); AIRPORTS; STATISTICS; GROWTH; PUPPETO RICO; PASSENGER ENPLANEMENTS 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

Paper No. 780257, presented at the Society of Automotive Engineers' Congress and Exposition, Coho Hell, Detroit, Michigan, Pebruary 27 - March 3, 1978, 8 p.

1978
RETFORDS: TIRES: PRICTION: WEAR: ROADS: SURFACES:
FUEL ECONOMY: TESTING: PERFORMANCE: MATERIALS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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

Report No. DOT-TSC-OST-76-39, 74 p.
1976, October
SPONSOR: U.S. Dept. of Transportation, Office of SPORSOR: 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: MODELS: AUTOMOBILES: TECHNOLOGY ASSESSERT; RESOURCES: NATERIALS: EMERGY DEMAND: COMPUTERIZED SIMULATION: IMPUT-OUTPUT AWALYSIS; LABON ESTIMATES; CAPITAL: DEMAND (ECOMORICS): TABLES (DATA): RAWPOWER AVAILABILITY: NTIS

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

Praeger Special Studies in U.S. Economic, Social, and Political Issues, 317 p. 1977
SPONSOR: National Science Poundation, RANN Program REYWORDS: HYDROGEN; HYDROGEN; EVELS; TECHNOLOGY ASSESSMENT; FORECASTING; HYDROGEN PRODUCTION; HYDROGEN STORAGE; DISTRIBUTION; UTILIZATION; SAFETY; COMPARATIVE EVALUATIONS; ECONOMICS; COSTS; VEHICLES; AUTOMOTIVE PIELS; ALTERNATE FUELS; AVIATION; AIR TRANSPORTATION; UTILITIES; AHMONIA; SINTHESIS; STEEL HARRING 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 Bosch Technische Berichte, 2(5), 211-219 1976, September SPONSOR: National Aeronautics and Space Administration RETHORDS: BATTERIES; ELECTRIC VEHICLES; FUEL CELLS; RESEARCH; PERFORMANCE AVAILABILITY: RTIS

<179> Doernberg, A.
Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Technology American Group ADDRESS: Upton, NT 11973 TITLE: Ispact of Selected Energy Conservation Technologies on Baseline Demands

Report No. BHL-50745, 93 p.
1977, September
SPONSOR: U.S. Dept. of Energy
RETHORDS: REGIONAL ANALYSIS; EMERGY COMSUMPTION;
TABLES (DATA); EMERGY COMSERVATION; COST
REFECTIVENESS; TECHNOLOGY; STANDARDS; NODELS;
RESIDENTIAL SECTOR; COMPRECIAL SECTOR;
FORECASTING; IMDUSTRIAL SECTOR; TRANSPORTATION
AVAILABILITY: RTIS

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<180>
<180>
C180>
Doggett, R.W.: Heyer, R.
International Research and Technology Corp.
ADDRESS: 7655 old Springhouse Road, Holean, Va.
22101
TITLE: The Transportation Energy Conservation
Hetwork (TECNET): A Susaary Description

Report No. IRT-19900/1, 35 p.
1978, March 19
SPONSOR: Oak Ridge Mational Laboratory, Energy
Division, Data Hanagement and Analysis Group
REYMORDS: TRANSPORTATION; BERRGY CONSERVATION;
DENAND (ECOHONICS); ENERGY CONSUMPTION;
ENVIRONMENTAL IMPACT; ECOHONIC IMPACT; TABLES
(DATA); HODELS; GOVERNMENT POLICIES;
SINULATION; MATERIALS; TRANSPORTATION

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Coggett, 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

Report Fo. IRT-17200/2-R, 107 p.
1978, June
590850R: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
REYORDS: FORECASTING; HODELS: TRANSPORTATION;
GASOLIME; RATIONING; ENERGY CONSERVATION;
AUTOHOTIVE ENGINES; BRATTON CYCLE; STIRLING
ENGINES; INTERNAL CONBUSTION ENGINES;
ECONOMIC IMPACT: ENERGY INTENSITY: HARKET;
ZWERGY CONSUMPTION; AUTOHORILES; GROWTH;
VEHICLE MILES TRAVELD; GROSS MATIONAL
PRODUCT; RILEAGE; TABLES (DATA)

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

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

79 p.
1978, April 28
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Office of Highway Systems, Next Engine Systems Branch KETTORDS: PTR. COSSUMPTION: HIGHERY TRANSPORTATION: AUTOMOBILES: TRUCKS: BUSES (FERICLES); HOTORCYCLES: HILBAGE; ENGINES;

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

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Donovan, Ramester and Rattien Inc.
ADDRESS: 1055 Thomas Jefferson it., Suite 410,
Washington, DC 20007
TITLE: Energy, the Environment and Land Use:
Literature Review

Report No. UCRL-13710(Pt. 1), 190 p.
1976, November 5
SPONSOR: Lawrence Liveracre Laboratory, Office of
Environmental Policy
KEYMORDS: BIBLIOGRAPHZES; EMERGY SUPPLIES; COAL;
BUCLEAR EMERGY; PETROLEUM; NATURAL GAS;
ALTERNATE FUELS; ELECTRIC POWER GEMERATION;
EMERGY COMSUMPTIOM: EMERGY COMSEPVATION;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
TRANSPORTATION; AGRICULTURE; LAND USE;
EMYTPORMENTAL IMPACT
AVAILABILITY: HTIS

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

Report No. OCRL-13710(Pt. 2), 151 p.
1976, Rovember 5
SPONSOR: Lawrence Liveracre Laboratory, Office of Environmental Policy
REMIORDS: LAND USE; ENVIRONMENTAL IMPACT; EMERGY CONSERVATION; EMERGY CONSUMPTION; EMERGY DEMAND; POLLUTION; ECONOMIC AMALYSIS; SITE SELECTION; COAL; PETROLEUM; TRANSPORTATION; PRODUCTION; NUCLEAR EMERGY; WASTE DISPOSAL AVAILABILITY; STIS

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Duffy, M.A.; Eiden, G.L.; Hamilton, C.W.; Drago, V.J.
Battelle Columbus Laboratories
ADDRESS: 505 King Avenue, Columbus, OH 43201
TITLE: General Aviation Dynamics: An Extension of the Cost Impact Study to Include Interactions in the Porecasting of General Aviation Activity. Volumes 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 REMONDS: FORECASTING: AVIATION; OPERATING COSTS; HODELS; DATA BASES; SINULATION; AIRCRAFT; PUEL COMSUMPTION; UTILIZATION; TABLES (DATA); GRAPHS (CHARTS); GOVERNMENT POLICIES; REGULATIONS; DEMAND (ECONOMICS); AIR TRANSPORTATION; OPERATION AVAILABILITY: HTIS

<187>
Dupree, R.G., Jr.
U.S. Dept. of Interior, Bureau of Hines, Division of Interfuels Studies
ADDRESS: Washington, DC 20281
TITLE: Energy Consumption in the Transportation Sector

Paper presented at the Pourth National Conference on the "Effects of Energy Constraints on AD-A080 405 OAK RIDGE NATIONAL LAB TENN
F/6 15/5
TRANSPORTATION EMERSY CONSERVATION DATA BOOK: A SELECTED BIBLIO--EYC(U) NOV 78 A R EHRENSHAFT, 8 Y BARBER ORNL/EIS-146 W-7405-ENG-26 UNCLASSIFIED 2003 1080405 d <187> CONT. Transportation Systems," held at Union College, Schemectady, New York, on August 1-5, 1977, %1 p.

TRIVIORDS: EMERGY CONSUMPTION: TRANSPORTATION;
PRINCLEUM: PRINCLEUM PRODUCTS: LIQUEPIED
PRINCLEUM GASES: JET ENGINE FOELS; GASOLINE;
DISTILLATES; FOEL OIL; RESIDUAL OILS; TABLES
(DATA); GRAPRS (CHARTS); REGIONAL ANALYSIS

<188> Dustin, H.O.; Debington, R.J. Bational Aeronautics and Space Administration, Lewis Research Center ADDRESS: Cleveland, OH 44135 TITLE: Test and Evaluation of 23 Electric Vehicles for State-of-the-Art Assessment

Report Wo. COMS/1011-21, WASA TH-73850, paper presented at the 1978 SAE Congress, Detroit, Michigan, Pebruary 27 - March 3, 1978, 24 p. 1978
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation Frewords: Electric Vehicles, Testiko; Hybrid Electric-Powered Vehicles; Resemparive BRAKING; ENERGY CONSUMPTION; TABLES (DATA); GRAPHS (CHARTS): FUEL CONSUMPTION; PERFORMANCE

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

26 p.
1975, July
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
REYFORDS: EMERGY CONSERVATION: LEGISLATION:

POLICY
RETWORDS: EMERGY CONSERVATION; LEGISLATION;
SAFFTY: TRAVEL; DAYLIGHT SAVING TIME;
TRANSPOPTATION: ELECTRIC POWER; PUBLIC
OPINION: CRIME; GOVERNMENT POLICIES;
ACCIDENTS; TABLES (DATA)

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Ecklund, E.E.
U.S. Dept. of Energy, Division of Transportation
Energy Conservation
ADDRESS: Washington, DC 20545
TITLE: Comparative Automotive Engine Operation
Then Fueled with Ethanol and Methanol

Report No. HCP/W1737-01, v.p.
1975, Hay
RETWORDS: ALTERNATE PUELS; AUTONOTIVE ENGINES;
ETHAROL; METHANOL; GASOLINE; PERFORMANCE;
COMPARATIVE EVALUATIONS; PUEL-AIR RATIO; FUEL
ECOMONY; AUTONOTIVE ENILSSIONS; TESTING;
GRAPPS (CHARTS); DRIVING CYCLE
AVAILABILITY; GPO, Stock No. 061-000-00074-7

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Energy and Environmental Analysis Inc.
ADDRESS: 1701 Worth 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 Emergy, Emergy Information
Administration, Office of Emergy Data
REFFORDS: EFERGY CONSUMPTION; ECONOMIC AVALUSIS:
INDUSTRIES; DATA BASES; PUELS; INDUSTRIAL
SECTOR; HARDFACTORING; MINING; PAPER
INDUSTRY; TEXTILE INDUSTRY; AGRICOLITURE;
RESIDENTIAL SECTOR; RUSSING; STATISTICS;
INCOME; REGIONAL AWALTSIS; TRANSPORTATION;
AUTOMOBILES; AIR TRANSPORTATION; WATER
TRANSPORTATION; TABLES (DATA); BUSSES
(VEHICLES); STATE AWALTSIS

<192> Energy Research and Development Administration ADDRESS: Washington, DC TITLE: Proceedings of the Third International Electric Vehicle Symposium. Volumes 1 and 2

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

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SPONSOR: Electric Vehicle Council
REYWORDS: ELECTRIC VEHICLES; RESEARCH; BATTERIES;
DRIVE TRAIN SYSTEMS; ELECTPIC POWER DEHAMD;
UTILITIES; ENVIRONMENTAL IMPACT; PASSENGER
TRANSPORTATION; AUTONOBILES; ELECTRIC VEHICLE
PANGE; MARKET; TRUCKS; MAINTENANCE; MYBERD
ELECTRIC-POWERED VEHICLES; UTILIZATION;
ELECTRIC RAIL SYSTEMS; PERFORMANCE;
EFFICIENCY; ECONOMIC ANALYSIS; PRODUCTION;
BUSES (VEHICLES); DITVING CYCLP;
INTERNATIONAL ANALYSIS; DIAGRAMS; PHOTOGRAPHS
AVAILABILITY; NTIS

<193> Energy Research and Development Administration, Assistant Administrator for Institutional Relations, Energy Extension Service ADDRESS: Washington, DC 20545 TITLE: Bibliography Energy Extension Service

Report No. TIC/EES/BIB-1, 120 p.
1977, April
REYWORDS: BIBLIOGRAPHIES; EMERGY CONSERVATION;
SOLAR EMERGY; EMERGY CONSUMPTION; BUILDINGS;
BEHAVIOR; EMERGY POLICY; ECOMOMICS; WASTE
PROCESSING; EMERGY DEMAND; EMERGY SHORTAGES;
EMERGY RESOURCES; FOSSIL FUELS; AGRICULTURE;
HOUSES; INDUSTRIES; TRANSPORTATION
AVAILABILITY; U.S. Dept. of Emergy, Technical
Information Center, P.O. Box 62, Oak Ridge,
TN 37830

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Energy Research and Development Administration, Division of Transportation Energy Conservation ADDRESS: Washington, DC
TITLE: State-of-the-Art (SOA) Test and Data Project Review and Near-Term Electric Vehicle RSD Program Review

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

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

Report No. EDP/C-01(77), 118 p. 1977, lument 1977, August RETWORDS: ELECTRIC VEHICLES; BATTERIES; US DOE; ENTIRONS: STATEMENT OF THE STATEMENT OF

<196> Engelez, R.E. Barton-Aschman Associates Inc. TITLE: Joint Development: Institutional Constraints and Potentials

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

1976
SPONSOR: Wational Academy of Sciences,
Transportation Research Board
RETWORDS: LAND USE: TRANSPORTATION SISTEMS;
PLANNING: GOVERNMENT POLICIES: FUNDING:
LEGISLATION: INCENTIVES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Consistation Ave. NY, Washington, DC 20418
36.00 for Transportation Research Record No.
565

<197> Englehart, J.B. Pord Rotor Co. ADDRESS: Detroit, HI TITLE: The Origin and Uses of the Economy Van

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

1978 REYWORDS: VANS; HISTORY: UTILIZATION:
PHOTOGRAPHS: DESIGN: HARKET; SALES
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<198> Brlbara, W.S. New York State Dept. of Transportation, Planning and Research Bureau
ADDRESS: Albany, FI
TITLE: Gasoline Demand by Owner Characteristics

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

1976 1976
KETWORDS: GASOLIWE: DENAWD (ECOMONICS);
OWNERSHIP: OWNERS: HEW YORK: AUTOROBILES;
BATIONING: ALLOCATIONS: PUBL CONSUMPTION:
SIZE: AGE GROUPS: BILEAGE: SET;
SOCIO-ECOMONIC 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, H.S.; Hartgen, D.T.; Cohem, G.S.
Hew York State Dept. of Transportation, Plannis
Division, Planning Research Unit
ADDRESS: Albany, NY 12232
TITLE: Automotive Emergy Forecasts: Impact of
Price, Availability, and Efficiency

Preliminary Research Report 133, 99 p.
1977, December
KEYBORDS: WEW YORK; FUEL CONSUMPTION; VEHICLE
HILES TRAVELED; EMPLOYMENT; FUEL ECONOMY;
GASOLINE; PRICES; SOCIO-ECONOMIC PACTORS; PORECASTING: HODELS: AUTONOBILES: REGIONAL AWALYSIS; TABLES (DATA); POPULATION (STATISTICS); AUTOROBILE REGISTRATIONS

Bribaum, M.S.: Trentacoste, H.F.: Knighton, R.G.: Slavick, S.R.
Wew York State Dept. of Transportation, Planning and Research Bureau, Planning Research Unit ADDRESS: Albany, MY 12232 TITLE: New York State Intercity Travel Data, 1975. Volume II

Report No. DOT/RSPD/DPB/50-77-6, Volume 2 of 3, 80 p. 1977, Hay SPONSOR: U.S. Dept. of Transportation, Office of SPONSOR: U.S. Dept. Of Transportation, Office of University Research RETWORDS: INTERCITY TRANSPORTATION; TRANSPORTATION; HEW YORK; TRAVEL; DATA BASES; STATISTICS; AIR TRANSPORTATION; AUTOHOBILES; BUSES (VEHICLES); RAIL TRANSPORTATION; SERVICES; TABLES (DATA)

<201> ESB Inc. ADDRESS: 5 Pean Center Plaza, Philadelphia, PA 19103 TITLE: Cost and Design Study to Develop Lead-Acid Batteries for Electric Vehicle Propulsion.

Report No. ANL-K-77-3621-1, 441 p. 1977 SPONSOR: Argonne Mational Laboratory
REYWORDS: BATTERIES; ELECTRIC VEHICLES; LEAD-ACID
BATTERIES; COSTS; DESIGN; DIAGRAMS; RESEARCH; AVAILABILITY: WTIS

<202> <2012>
Esposito, V.J.
U.S. Dept. of Energy
ADDRESS: Washington, DC
TITLE: Overview of Electric Vehicles in the
United States

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

REYWORDS: ELECTRIC VEHICLES; US DOE; RESEARCH; HYBRID ELECTRIC-POWERED VEHICLES; BATTERIES; PERFORMANCE: STANDARDS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<203> <203> Sthyl Corp. ADDRESS: 330 South Pourth Street, Richmond, VA 23219

23417
TITLE: Emissions and Puel Economy of the Turbulent Flow System for European 4-Cyl Regines

Paper No. 760856, published in SAB SP-411, 33-52 1976, August SPONSOR: Society of Automotive Engineers,

Milwankee Section RETORDS: FUEL ECOMOR; AUTOHOTIVE EMISSIONS; STANDARDS: AUTOHOTIVE PUBLS: AUTOHOTIVE PGINES; DESIGN; TESTING; GRAPHS (CHARTS); AUTOPOTIVE TRANSMISSIONS; VELOCITY; TABLES (DATA)

AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Varrendale, PA 15096 for SAE SP-411

<204> <204> Evans, L. General Motors Corp., Research Laboratories ADDRESS: Warren, HI 48090 TITLE: Frhaust Enissions, Fuel Consumption and Traffic: Relations Derived from Urban Driving Schedule Data

Research Publication GMR-2599, 35 p. 1977. December 7 TRAPPIC: URBAN TRANSPORTATION; FUEL CONSUMPTION; TRAPPIC: URBAN TRANSPORTATION; VELOCIT; TRAVEL TIME; VEHICLE TRIPS; HYDROCARBONS; CAPPOR HOROXIDE; NITROGEN OXIDES; TABLES (DATA) : GRAPES (CHARTS)

<205> Evans, L.; Reraan, R.; Lam, T.W. General Rotors Corp., Research Laboratories TITLE: Gasoline Consumption in Urban Traffic

Paper No. 760048, presented at the Automotive Engineering Congress and Exposition, Detroit, Hichigan, February 23-27, 1976, 8 p. 1976

1976
SPONSOR: Society of Automotive Engineers
RETWORDS: TRAFFIC: URBAN TRANSPORTATION: FURL
CONSUMPTION: FURL ECONOMY: GASOLINE:
REGRESSION ANALYSIS: VEHICLE TRIPS: VELOCITY
AVAILABILITY: Society of Automotive Engineers
Inc., 800 Commonwealth Drive, Marrendale, PA
15096 \$2.75

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Executive Office of the President
ADDRESS: Washington, DC
TITLE: Econosic Report of the President Together with the Annual Report of the Council of Econosic Advisors Transmitted to the Congress January 1978

Annual report, 384 p.

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1978
REYWORDS: ECOMONICS: ECOMONIC POLICY: GOVERNMENT
POLICIES: INTERNATIONAL RELATIONS: IMPLATION;
UNEMPLOYMENT: EMPLOYMENT: PRODUCTION: TABLES
(DATA): STATISTICS
AVAILABILITY: GPO, Stock No. 040-000-00389-4

<207>
Executive Office of the President, Office of Management and Budget ADDRESS: Washington, DC 20503

TITLE: The United States Budget in Brief - Piscal

<208> Erron Research and Engineering Co., Government Research Laboratories; Science Application Inc., Combustion and Propulsion Technology Division Division
ADDRESS: EREF, P.O. Box 8, Linden, MJ 07036;
SAI,20335 Ventura Boulevard, Suite 823,
Woodland Hills, CA 91364
TITLE: Pundamental Characterization of Alternate
Fuel Effects in Continuous Combustion Systems

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GRAPHS (CHARTS): FUEL ECONOMY: TESTING: WEIGHT
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Inc., 400 Commonwealth Drive, Varrendale, PA
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FACTOR; NOISE POLLUTION; AIRPOPTS; GOVERNMENT POLICIES AVAILABILITY: NTIS

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ADDRESS: Washington, DC
TITLE: Report to the Congress: An Evaluation of
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SPOMSOF: U.S. House of Representatives, Committee on Interstate and Foreign Commerce, Subcommittee on Energy and Power KEYWORDS: NATIONAL EMERGY PLAM; EMERGY SHORTAGES; EMERGY CONSERVATION; FORECASTING; GOVERNMENT EMERGY CONSERVATION: FORECASTING: GOVERNMENT POLICIES: EMERGY DEMAND: TRANSPORTATION; RESIDENTIAL SECTOR; INDUSTRIAL SECTOR: CONMERCIAL SECTOR: EMERGY CONVERSION: GASOLINE: BUILDINGS: PETROLEUM; NATURAL GAS; TAXES; COAL; HUCLEAR EMERGY: UNCONVENTIONAL EMERGY SOURCES; RESEARCH
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PERFORMANCE: COSTS; URBAM TRANSPORTATION; BATTERIES AVAILABILITY: NTIS

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ADDREC*: Larren, HI 48090
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Colorado, University of, Graduate School of
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Division: Travel Reference Center; Travel
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TITLE: Diesel Cars in the United States

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CONSUMERS; TABLES (DATA); ELECTRIC VEHICLES;
PRODUCTION; SALES; AUTOMOBILES

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TITLE: Relation Between Efficiency and Range of
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PLANNING: URBAN TRANSPORTATION; DYMOGRAPH;
SOCIO-ECOMODIC FACTORS: TRAVEL; DEMAND
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KETWORDS: NEW YORK; EMERGY CONSERVATION; ORDS: HEW TORK; EMERGY CONSERVATION;
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CREADER (CHARTS) GRAPHS (CHARTS) AVAILAPILITY: NTIS

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ADDRESS: Washington, DC
TITLE: Vanpooling: An Update

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TITLE: Paployment and Barnings

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ADDRESS: Oak Bidge, TW 37830
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Oak Ridge National Laboratory, Energy Division, Regional and Urban Studies Section ADDRSS: Oak Ridge, TS 37830
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STATE ANALYSIS: TABLES (DATA); INTERNATIONAL
ANALYSIS: VEHICLE HILES TRAVELED; HAPS;
GRAPHS (CHARTS); TRANSPORTATION HODE CHOICE;
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FORECASTING; IMPORTS; PETROLEUH; COMPARATIVE
EVALUATIONS
AVAILABILITY: NTIS

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06880
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Secretary for Conservation and Solar
Applications, Transportation Programs Office
KEYMORDS: VANPOOLS: HARKETING: CONNUTERS:
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PLANNING: PARKING: ADVERTISING
AVAILABILITY: GPO, Stock No. 061-000-00083-6

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ADVERTISING: HAPKETING; PLANNY: COSTS:
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Grier, E.S.
Grier Partnership
ADDRRSS: 6532 E. Halbert Road, Bethesda, HD 2003&
TITLE: Energy Consumption, Incomes, and Housing

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Gronau, R.
Rebrew University
ADDRESS: Jerusales, Israel
TITLE: Econosic Approach to Value of Time and
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Transportation Research Board
KETHORDS: TRAVEL TIME; TRANSPOPTATION; ECONOMIC
ANALYSIS; VEHICLE TRIPS; GRAPHS (CHARTS);
DISTANCE
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2,40 for Transportation Research Record 587

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Guess, R.H.; Lustenader, E.L.
General Electric Co.
ADDRESS: New York, NY
TITLE: Development of a High Performance and

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

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ADDRESS: Pittsburgh, PA
TITL*: Passenger Car Puel Economy in Short Trip
Operation: Alternative Fuels Utilization
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SPONSOP: J.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYMOPDS: VEHICLE TRIPS; DISTANCE; AUTOMOBILES;
FUEL ECONOMY; GASOLINE; FUEL ADDITIVES;
TESTING; DRIVING CYCLE; DYNAMORETERS; OCTANE;
SPASONAL VARIATIONS; AUTOMOTIVE EMISSIONS
AVAILABILITY: GPO, Stock No. 061-000-00112-3

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Brookhaven Wational Laboratory, National Center
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Assessment Group
ADDRESS: Upton, NY 11973
TITLE: A Study of Potential Coal Utilization:
1985-2000

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SPONSOF: J.S. Dept. of Energy
REYWO-DS: COAL; UTILIZATION; FORECASTING; FUEL
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CAPGO TRANSPORTATION; SLURRY PIPELINES;
SIBUTHETIC FUELS; HARRET; COSTS; PRODUCTION;
EMERGY SUPPLIES; PETROLEUM; ALLOCATIONS;
TABLES (DATA)
AVAILABLITY; BTIS

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Raefele, K.
Adam Opel AG
ADDRESS: Germany
TITLE: Considerations in Redesigning a Gasoline
Engine into a Diesel Engine for Passenger Car
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RETWORDS: DIESEL BHGINES; BHGINES; AUTOHOTIVE
ENGINEERING; CONVERSION; DIAGRAMS;
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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Harrendale, PA
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SPOPSOR: Energy Research and Development Administration
REYNORDS: ALTERNATE FUELS; HETHANOL; PROPERTIES; EMISSIONS; PRODUCTION; CORBUSTIOF; UTILIZATION; COSTS; ECONOMIC ANALYSIS; HAZARDS; BIBLIOGRAPHIES; EMGINES; GASOLINE AVAILABILITY: NTIS

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Hahn, U.
Kanner (Leo) Associates
ADDRESS: Fedwood City, CA 94063
TITLE: Energy Requirement for Flectric Road
Vehicle Propulsion

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SPONSOR: National Aeronautics and Space
Administration
KEYWORDS: ELECTBIC VEHICLES; EMERGY PLOW;
PROPULSIOM; EMERGY DEHAND
AVAILABILITY: NTIS

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

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flamilton, W.
General Research Corp.
ADDRESS: Santa Barbara, CA 93105
TITLE: Urban Applications and Energy Impacts of
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SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation RETRODDS: URBAN TRANSPORTATION; FORECASTING;

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Hamilton, W.
General Research Corp.
ADDRFSS: Santa Barbara, CA
TITLE: Basic Requirements for Urban Cars

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1978

RETWORDS: TRPAN TRANSPORTATION: AUTOMOBILE
DRIVERS; VEHICLE MILES TRAVELED; VEHICLE
TRIPS; SURVEYS; TRAVEL; TABLES (DATA); LOS
AVGELES; WASHINGTON DC; OWNERSHIP: AGE GROUPS
AVAILABILITY: Society of Automotive Engineers
Jnc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Ramilton, W.; Hagey, G.
General Research Corp; Energy Research and
Development Administration
ADDRESS: GRC, Santa Barbara, CA; ERDA,
Washington, DC
TITLE: Impacts of Future Use of Electric Cars in
U.S. Cities

Paper presented at the Fourth International
Electric Vehicle Symposium, held in
Dusseldorf, Germany, August 31 - September 2,
1976, 13 p.
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SPONSOR: Electric Vehicle Council; International
Mnion of Producers and Distributors of
Electrical Energy
KFYMORDS: ELECTRIC VEHICLES; 'RAMSPORTATION;
LFAD-ACID BATTERIES; ENERGY; FORECASTING;
GRAPHS (CHARTS); NICKEL-ZINC BATTERIES;
COSTS; "ABLES (DATA); AIR POLLUTION; SAINT
LOUIS (MISSOURI); PHILADELPHIA; LCS ANGELES;
GOVERNMENT POLICIES; PETROLEUM
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Hamilton, W.F.

General Research Corp.
ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105
TITLE: Applicability of Electric Cars
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SPONSOR: J.S. Deot. of Energy
KEYWORDS: AUTOMOBILE DRIVERS; DISTANCE; ELECTRIC
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FORECASTING; SURVEYS; VEHICLE TRIPS; URBAN
AREAS; LOS ANGELES; WASHINGTON DC; TABLES
(DATA); GRAPHS (CHARTS); HIGHWAYS; PASSENGER
TRANSPORTATION; BATTERIES; BATTERY CHARGING

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TITLE: Issues and Actions for Hanaging Development

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KEYBORDS: TRANSPORTATION; PLANWING; LAND USE;
LOCAL GOVERNMENT; GROWTH; GOVERNMENT POLICIES
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record Wo.
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Hanson, E.K.
General Motors Corp., Buick Motor Division
TITLE: An Overall Design Approach to Improving
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DESIGN; AUTOMOBILES; PUEL CONSUMPTION;
REGULATIONS; CONSUMERS; GPAPHS (CHARTS);
WEIGHT: MATERIALS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Nichigan, February 23-27, 1976, 13 p.

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RETWORDS: ELECTRIC VEHICLES: TAXICABS: BUSES
(VEHICLES): VANS: LEAD-ACID BATTERIES;
ELECTRIC POWER DEMAND: HARRET: ECONOMICS;
URBAH TRANSPORTATION
AVAILAPILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.75

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Rarris, R.G.
California, University of, School of Business
Administration
ADDRESS: Berkeley, CA
TITLE: Economies of Traffic Density in the Rail
Freight Industry

Bell Journal of Economics, 8(2), 556-564
1977, Autumn
SPONSOR: Alfred P. Sloan Foundation
KETWORDS: RAIL TRANSPORTATION; ECONOMICS;
TRAFFIC; CARGO TRANSPORTATION; COSTS;
ECONOMIC ANALYSIS; GOVERNMENT POLICIES; RATES
(COSTS)

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New York State Dept. of Transportation, Planning Division
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ENTOMOBELES; PUEL ECONOMY; STANDARDS;
EMILDINGS; THERMAL INSULATION; RETROPITTING; PUBLIC TRANSPORTATION

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Engelhard Industries, a Division of Engelhard
Minerals 8 Chesicals Corp.
ADDRESS: Henlo Park, Edison, N° 08817
TITLE: Durability Testing at One Atmosphere of
Advanced Catalysts and Catalyst Supports for
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REYWORDS: TESTING; CATALYSTS; AUTOHOBILES; GAS
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ELECTRIC VEHICLES; LIPE-CYCLE COST;
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ANALYSIS; ELECTRIC RAIL SYSTEMS; AUTONATED
GUIDEWAY TRANSIT A CONTRACTOR OF THE PROPERTY OF THE PARTY OF

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Stanford Research Institute
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SPONSOF: OF TRANSPORTATION, FEDERAL HIGHWAY Administration
RETURNS: PLANNING; AUTOMOBILES; AUTOMOBILES; AUTOMOBILES; TOTOMOBILES; TANDARDS; FUEL CONSUMETION; CALIFORNIA; IN SPECTION; HAINTENANCE; STANDARDS; FUEL ECONORY; GASOLINE; ALLOCATIONS; RATIONING; PRICES; TRAIS; VERICLE PARRING; VEHICLE PEGISTRATIONS; TRAFFIC CONTROL; ENERGY CONSERVATION; GOVERNMENT POLICIES; SPEED LIMITS; TABLES (DATA); FORECASTING; STATE GOVERNMENT

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Teledyne Continental Hotors, General Products
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ADDPESS: 76 Getty Street, Huskegon, HI 49442
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DESIGN; AUTONOTIVE ENISSIONS; SINULATION;
EXHAUST PECIRCULATION SYSTEMS
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AVAILABILITY: Society of Automotive Engineers,
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AUTOMOBILES

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KEYNORDS: FUEL ECONOMY: PLOWNETERS:
ACCELERORETERS: PYROMETERS: BERRGY
COBSERVATION: TABLES (DATA): GRAPES (CHARTS);
COMPARATIVE EVALUATIONS: AUTOMOBILE DRIVERS:
BEHAVIOR: EQUIPMENT; VELOCITY: ACCELERATION
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BUSES (VEHICLES); QUESTIONNAIRES; VEHICLE
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AUTOMOTIVE EMISSIONS; FUEL ECONOMY; DESIGN;
DIAGRAMS; GRAPMS (CHARTS)
AVAILABILITY: Society of Automotive Engineers,
800 Commonwealth Drive, Warrendale, PA 15096

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TITLE: Coordination of Urban Development and
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Transportion Research Board, 2101
Constitution Ave. NN, Hashington, DC 20418
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ADDRESS: Kendall Square, Cambridge, HA 02142
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Volume I: Analytical Hodel

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RETWORDS: FUEL CONSUMPTION; RAIL TRANSPORTATION; MODELS: FORECASTING: LOAD FACTOR: WEIGHT;
HIGHWAY TRANSPORTATION; CARGO TRANSPORTATION;
PASSENGER TRANSPORTATION; GRAPHS (CHARTS);
INTERCITY TRANSPORTATION; VELOCITY
AVAILABILITY: NTIS

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TITLE: Reilroads and the Environment: Estimation
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Rorowitz, A.D.
General Motors Corp., Research Laboratories,
Transportation and Urban Analysis Dept.
ADDRESS: Warren, HI \$8090
TITLE: An Attitudinal Model of Carpooling Behavior

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General Rotors Corp., Research Laboratories,
Transportation and Urban Analysis Dept.;
Illinois, University of, Dept. of Business
Administration ADDRESS: GRC, Warren, HI 48090; UI, Urbana, IL 61801

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Rotowitz, J.
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ADDRESS: Washington, DC
TITLE: An Aggregate Sapply Hodel for Urban Bus
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Paper published in Transportation Research Record 626, 12-15 1977

SPONSOR: Mational Academy of Sciences, Transportation Pessarch Board RETWORDS: BUSES (VEHICLES); URBAN TRANSPORTATION; HODELS: CAPACITY: AUTOHOBILES; VEHICLE TRIPS;

LOS ANGELES
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 626

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Bevilacqua, O.H.; Bruck, H.W.; Burnkrant,
R.B.; Chan, V.K.; Rowland, H.I.; Sesinoff,
S.A.; Zahradnik, A.R.
California, University of, Institute of
Transportation Studies
ADDRESS: Berkeley, CA
TITLE: Getting It Off the Shelf: A Hethodology
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Special Studies in Public Systems Management, 282 TECHNOLOGY ASSESSMENT; DEVELOPMENT; TESTING; TRCHNOLOGY ASSESSMENT; DEVELOPMENT; TESTICONNERCIALIZATION; INSTITUTIONAL PACTORS;

COMMERCIAL SECTOR
AVAILABILITY: Westview Press, Boulder, CO

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ADDRESS: Berkeley, CA
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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
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Edition 2

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SPORSOR: Energy Research and Development
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PUBLS; AGTOHOBILES; BUSES (WEHICLES); CARGO
TRANSPORTATION; PETROLEUN; DEHAND
(ECONOMICS); DIESEL ENGINES; ECOHOMICS;
EFFICIENCY: ELECTRIC VEHICLES; EMERGY
CONSUMPTION; EMVIRONHEETAL HIPACT;
FORECASTING; PUBL COMSUMPTION; PUBL ECONOMY;
FUELS; GASOLIME; GOVERNEMT POLICIES;
LEGISLATION; RASS TRANSPORTATION; RAIL PUZLS; GASOLINE; GOVERNMENT POLICIES; LEGISLATION; MASS TRANSPORTATION; RAIL TRANSPORTATION; STATISTICS; TRUCKS; URBAN TRANSPORTATION; HIGHWAY TRANSPORTATION; VEHICLES; WATER TRANSPORTATION; ABSTRACTS AVAILABILITY; WITS

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Oak Ridge Y~12 Plant
ADDRESS: P.O. Box Y, Oak Ridge, TN 37830
TITLE: Composite Plywheel Development (January 1
- Harch 31, 1977)

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SPONSOR: Energy Research and Development
Administration, Office of Conservation,
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Physical Hethods Branch
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Carlo R.L.; Kelly, J.J.; Knight, C.E.
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ADDRESS: P.O. Box I, Oak Ridge, IN 37830
TITLE: Composite Flywheel Development (April 1 June 30, 1977)

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SPONSOR: Energy Research and Development
Administration, Office of Conservation,
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Hummon, M.P.; Sharp, D.P.; Zemotel, L.M.
Pittsburgh, University of, Environmental Systems
Engineering
ADDRESS: Pittsburgh, PA 15260 <317>
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TITLE: Projections of Automobile Use and
 Ownership Based on Lifestyle Factors: First
Pass Analyses and Scenarios

Peport Po. OPEL-Sub-7356-1, 59 p.
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LIFE STYLE; POPULATION (STATISTICS); AGE
GROUPS; TABLES (DATA); VEHICLE TRIPS; VEHICLE
HILES TRAVELED; RODELS

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REYPORDS: AUTOHOBILES: OWNERSHIP; HODELS;
FORECASTING: FEHICLE TRIPS; VEHICLE HILES
THATELED: TABLES (DATA): AGE GROUPS; REGIONAL
AWALYSIS; GRAPHS (CHARTS): LIFE STYLE

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Iberall, A.S.; Cardon, S.Z.
General Technical Services Inc.
ADDRESS: 8794 West Chester Pike, Upper Darby, PA 19082
TITLE: Physical Poundations for Socio-Economic

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Transportation Systems Center, Office of
Systems Research and Analysis
RETWORDS: PHYSICS; STATISTICAL ANALYSIS;
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AREAS; TRANSPORTATION; BOLTZHANN STATISTICS;
SYSTEMS ANALYSIS; HODBLS; PLANNING
AVAILABILITY: HTIS

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General Technical Services Inc.
ADDRESS: 8794 West Center Pike, Upper Darby, PA
19082
TITLE: Systems Hodels for Transportation
Problems. Part II: The Social Physics for
Modern Societies - The Role of the Cities

Report No. DOT-TSC-OST-77-37,II, 170 p.
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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; HODBLS
AVAILABILITY: HTIS

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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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KRYGORDS: DEVELOPMENT: ELECTRIC VEHICLES; TABLES
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LEAD-ACID BATTERIES; AUTOMOBILES; TRUCKS;
COMPARATIVE EVALUATIONS; ENERGY CONSERVATION;
PERFORMANCE
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

Annual publication
1975
RETFORDS: STATISTICS; ROADS; TABLES (DATA);
PRODUCTION: EXPORTS; VEHICLES; INTERNATIONAL
TRADE; VEHICLE REGISTRATIONS; IMPORTS;
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FINANCIAL DATA; PIRANCIAL MANAGERENT
AVAILABILITY; GPO, Stock No. 026-000-01096-9

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TITLE: Preight Commodity Statistics: Hotor Carriers of Property, Year Ended December 31, 1974

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REYWORDS: COMMODITIES; REGIONAL AMALYSIS; TABLES
(DATA); CARGO TRAMSPORTATION; REVENUE;
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AVAILABILITY: GPO \$1.75, Stock Ro.
026-000-01054-3, Catalog Ro. IC 1-MOT22:974

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REFRORDS: TABLES (DATA); WATERWAY TRANSPORTATION;
REVERUE; WATER TRANSPORTATION: CARGO
TRANSPORTATION; PASSENGER TRANSPORTATION;
PINANCIAL DATA; REGIONAL ANALYSIS; OPERATING
COSTS; RARIN; TRANSPORTATION; CORNODITIES;
TOWNAGE
AVAILABILITY: GPO, Stock No. 026-000-0069-1

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ADDRES: Washington, DC
FITLE: Transport Statistics in the United States
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1: Railroads, Their Lessors and Proprietary
Companies, and Electric Railways

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REYMORDS: BAIL TRANSPORTATION; BAILBOADS;
FINANCIAL DATA; REGIOVAL ANALYSIS; INCOME;
OPERATING COSTS; CARGO TRANSPORTATION;
BQUIPMENT; TABLES (DATA); BALANCE SHEETS;
REVERUE; REVERSES; STATISTICS; PASSENGER
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TITLE: An Analysis of Marketing Trends in the Automotive Service Industry Through 1975

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TITLE: The Potential Market for On-the-Road Electric Vehicles

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BRAFING; DESIGN; EPPICIENCY; ELECTRIC VEHICLE
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Inc., 400 Commonwealth Drive, Warrendale, PA
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RETWORDS: EFFICIENCY: TRANSPORTATION; EQUIPMENT; JORDS: PEPICIENCY; TRANSPORTATION; EQUIPMENT; EMERGY COMSUMPTION; EMERGY COMSENTATION; INDUSTRIAL SECTOR; GOVERNMENT POLICIES; ECOMONICS; TABLES (DATA); PORECASTING; REGIONAL ANALYSIS; STATISTICS; OPERATING COSTS; VEHICLES; AIRCRAFT; BOATS; SHIPS; RAIL TRANSPORTATION; HOTORCYCLES; BICYCLES; RECREATION VEHICLES AVAILABILITY: NTIS

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SURVEYS; QUESTIONNAIRES; RESIDENTIAL SECTOR; TABLES (DATA); FUEL ECONOMY; FUEL CONSUMPTION; PURCHASING; DEMAND (ECONOMICS)

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TRANSPORTATION: EMPEGY CONSERVATION; TRAPPIC;
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COSTS; AUTONOTIVE PLEETS; PERFORMANCE; TABLES
(DATA): REGIONAL ANALYSIS; PASSENGER
TRANSPORTATION; CARPOOLING; BUSES (VEHICLES);
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SECTOR: PESIDENTIAL SECTOR; GRAPHS (CHARTS);
PETROLETH; COAL; HYDROELECTRIC POWER; NUCLEAR
ENERGY: WATURAL GAS; PRODUCTION: ELECTRIC
ENERGY CHARTSHION: FUNSUMPORTATION: PAGEORAL POWER GENERATION; TRANSPORTATION; REGIONAL ANALYSIS; DIAGRAMS
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SPONSOR: Federal Energy Administration, Office of Data Services
REYPORDS: EMERGY POLICY: TABLES (DATA): GASOLITE:
PRICES: THERMAL INSULATION: SOCIO-ECONOMIC
FACTORS: ECONOMIC IMPACT: RESIDENTIAL SECTOR:
EMERGY MODELS: PORECASTING

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ADDRESS: MPRI, 2101 L Street MW, Suite 416,
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Suite 414, Washington, DC 20037
TITLE: System Flow Chart. Phase I: Comprehensive Human Resources Data System 22 p. 1977, June 30 SPONSOR: Federal Energy Administration, Office of Data Services REYWORDS: SYSTEMS ANALYSIS; FLOW CHARTS;

FORECASTING: INFORMATION SYSTEMS; DATA PROCESSING: ENERGY POLICY

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National Academy of Sciences, National Research
Council, Transportation Research Board,
National Cooperative Highway Research Program
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Suburban Highways and Roads as Instruments

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KEYWORDS: LAND USE; HIGHWAYS; SUBURBAN AREAS; CAPACITY: LEGISLATION: LAND DEVELOPHENT: UTILIZATION: TRAFFIC CONTROL: GROWTH AVAILABILITY: \$6.00 for Transportation Research Record No. 565

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Administration, Division of Transportation
Energy Conservation
KEYWORDS: PHOTOGRAPHS: ELECTRIC VEHICLES: HYBRID
ELECTRIC-POPERED VEHICLES: GERMAN FEDERAL
REPUBLIC: ISRAEL: NETHERLANDS: SWEDEN; UNITED
KINGDOM: FRANCE: ITALY: JAPAN: USA:
MANUPACTURERS: MARKET: RESEARCH: DESIGN:
INTERNATIONAL ANALYSIS
AVAILABILITY: GPO, Stock No. 060-000-00083-2

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COMMERCIALIZATION; PHOTOGRAPHS; DESIGN;
SAFET; LEAD-ACID BATTERIES; NICKEL-2INC
BATTERIES; NASA; BATTERIES; ZINC-CHLONINE
BATTERIES; INDUSTRIES; RESEARCH; DEVELOPHENT;
LITHIUM-TITANIUM BATTERIES; BICCICLES

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Northwestern University, Transportation Center
ADDRESS: Evanaton, IL
TITLE: Baseline Energy Consumption Forecasts for
Transportation: A Review and Evaluation

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Environmental Systems Division; Energy
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ANTOHOBILES; BUSES (VHHICLES); INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
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TRANSPORTATION: PLANNING: DESIGN: HODELS:
TABLES (DATA): TRAVEL TIME: DELAYS
AVAILAPILITY: Wational Academy of Sciences,
Transportation Research Board, 2101
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EFFICIENCY; COMPARATIVE EVALUATIONS; COSTS;
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TRANSPORTATION; GOVERNMENT POLICIES; EMERGY
POLICY: EMERGY COMSUMPTION; LAND USE; TRANSPORTATION AVAILABILITY: BTIS

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Landgrebe, A.A.; Reison, P.A.
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Division; Emergy Research and Development
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ADDRESS: ABL, 9700 South Cass Avenue, Argonne, IL
60439; EDDA, Washington, DC 20545
TITLE: Battery Research Sponsored by the U.S.
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ELECTRIC VEHICLES; LITHIUH-ALUHIWUH/TROM
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AVAILABILITY AVAILABILITY: NTIS

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RETHORDS: RAIL TRANSPORTATION: RAPID TRANSIT
SYSTEMS; LAND USE; TRAFFIC CONTROL; TRANSIT
STATIONS; MODELS: HAIFTENANCE
AVAILABILITY: Rational Academy of Sciences,
Transportation Research Board, 2101
Constitution Avenue HW, Washington, DC 20418

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Office of Air and Waste Hanagement, Office of
Hobile Source Air Pollution Control,
Alternative Automotive Power Systems Division
REMORDS: ALTERWATE FUELS; AUTOHOBILES; EMGIES;
ELECTRIC VEHICLES; RESEARCH; TABLES (DATA);
DIAGRAMS; HISTORY; AUTOHOTIVE FUELS; BYBRID
ELECTRIC-POWERED VEHICLES; GRAPHS (CHARTS);
TRANSPORTATION TRANSPORTATION AVAILABILITY: BTIS

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REWOODS: EMERGY COMSERVATION; STATE AWALYSIS;
GOVERNMENT POLICIES; STATE GOVERNMENT;
LIGHTING SYSTEMS; PORECASTING: BUILDINGS;
STAMDARDS; TABLES (DATA); THERMAL EMPICIENCY;
TRANSPORTATION; RESIDENTIAL SECTOR;
INDUSTRIAL SECTOR; PUBLIC BUILDINGS; BUILDING

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Lee, J.
Brookhaven National Laboratory, Dept. of Applied Science, Energy Policy Analysis Group 1DDRSSS: Opton, NY 11973
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RETWOODS: EMERGY SOURCES; EMERGY DEMAND;
WORTHEASTERN STATES; REGIONAL ANALYSIS; NEW
ENGLAND: NEW YORK; PENNSYLVANIA; HEW JERSEY;
DELAWARE; HARYLAND; DISTRICT OF COLUMBIA;
TABLES (DATA); EMERGY CONSUMPTION;
PESIDENTIAL SECTOR; COMMERCIAL SECTOR;
INDUSTRIAL SECTOR; TRANSPORTATION: ELECTRIC
POPER; HODELS; COMMERCIAL SECTOR;
TONESTHING: PULL WHING; STATE ANALYSIS AVAILABILITY: WTIS

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COMMUTING: ELECTRIC VERICLES; PASSENGER
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BATTERIES; DESIGN; AUSTRALIA
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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ADDRESS: 5285 Port Royal Road, Springfield, VA
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GAS; DESIGN; SAFETY; CARGO TRANSPORTATION;
PIPELINES; CRYGGENICS; HAZARDS; PLANNING;
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ADDRESS: California Institute of Technology,
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TITLE: tilization of Waste Heat in Trucks for
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RETWORDS: WASTE REAT: PUEL ECONORY: UTILIZATION;
TPUCKS; DISSEL EMGIRES; SPARK IGHTION
ENGINES: GAS TURBIRE ENGINES; STIRLING
ENGINES; RANKING CYCLE ENGINES; REGENERATION;

DRIVING CYCLE; ADIABATIC PROCESSES; RECUPERATION; TURBOCHARGING; TURBOCOMPOUNDING; GRAPHS (CHARTS); TABLES (DATA) ; DIAGRAMS AVAILABILITY: GPO. Stock No. 061-000-00111-5

< 370> <370> Leonard, R.W.; Wagner, R.D. Mational Aeronautics and Space Administration, Langley Research Center ADDRESS: Langley Station, VA TITLE: Airframe Technology for Energy Efficient Transport Aircraft

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SPONSOR: Society of Automotive Engineers
KEYWORDS: TECHNOLOGY; AIRCRAFT; AERODYWANICS;
FUEL ECONOMY; EFFICIENCY; TESTING; LAHINAR
FLOW; AIRFOILS; COMPOSITE HATERIALS;
DIAGRAHS; GRAPHS (CHARTS); DESIGN; COMTROL
EQUIPMENT; OPERATING COSTS
AVAILABILITY: Society of Automotive Engineers
IRc., 400 Commonwealth Drive, Warrendale, PA
15096

<371> Lerman, S.R. Massachusetts Institute of Technology, Dept. of Hassachusetts Institute of Technology, Dept. of Civil Engineering ADDRESS: Cambridge, NA 02139 TITLE: Location, Housing, Auto Ownership and Rode to Work: A Joint Choice Hodel

Paper presented at the Fifty-Fifth Annual Resting of the Transportation Research Board, Washington, DC, 48 p. 1975, August 1975, August
KEYMORDS: RESIDENTIAL SECTOR; TBANSPORTATION;
SHOPPING TRIPS; HODELS; URBAN AREAS;
BEHAVIOR; EMPLOYMENT; DECISIONS;
SOCIO-ECONOMIC FACTORS; LAND USE;
AUTOMOBILES; OWNERSHIP; HOUSING; DISTANCE;
GRAPHS (CHARTS); COMMUTING

<372> Herman, S.R. Hassachusetts Institute of Technology, Dept. of Tassachusetts Institute or Technology, Dept. of Civil Engineering ADDRESS: Cambridge, MA 02139 TITLE: Application of Choice Theory to Residential Location and Related Household Decisions

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1975, NOVEMBER
RETHORDS: RESIDENTIAL SECTOR; URBAN
TRANSPORTATION: HODELS; SHOPPING; URBAN
AREAS; BEHAVIOR; EMPLOMENT; DECISIONS;
SOCIO-ECOMONIC FACTORS; AUTOMOBILES;
OWNERSHIP; HOUSING; GRAPRS (CHARTS); TABLES
(DATA); DISTANCE; CONHUTING; FORECASTING

<373> Leahner, M.D.; Baisley, W.H.; Leahner, E. Fael Injection Development Corp. ADDRESS: 110 Harding Avenue, Bellnawr, MJ 08030 TITLE: A Tuel Vapor Injection/Igniter System. Final Report <373> COTT.
Report Bo. E-4, 84 p.
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SPCHSOR: Energy Research and Development Administration
KEYWORDS: FOEL INJECTION SYSTEMS; FUEL-AIR RATIO;
TESTING: AUTOMOTIVE REGIMES; DESIGN: FUEL
ECONOMY: AUTOMOTIVE ENISSIONS; PEPFORMANCE;
IMPTPHAL CONBUSTION ENGINES; DIAGRAMS

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Levine, C.A.
Dow Chemical Co.
ADDRESS: Walnut Creek, CA
TITLE: Sodium-Suifur Battery System: Annual
Report, Hay 19, 1975 - Hay 19, 1976

Report No. COO-2565-4, 68 p.
1976, November 1
SPONSOR: Energy Research and Development
Administration, Division of Conservation
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KPIMORDS: SODIDH-SULFUR BATTERIES: LIFE
(OUPABILITY); RESEARCH: TECHNOLOGY;
ELECTROLITES; ELECTRODES; CATHODES; GRAPHS
(CHAWIS); COSTS
AVAILABILITY: NTIS

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Levinson, D.H.; HcQueen, J.T.
U.S. Pept. of Commerce, National Bureau of
Standards
ADDPESS: Washington, DC 2023a
TITLE: A Procedure for Estimating Automobile Fuel
Consumption on Congested Urban Roads

Peport No. COM-75-10057, MASIR 74-595, 20 p.
1974, August
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration
REYPORDS: AUTOHOBILES: FUEL CONSUMPTION: UPBAW
AR EAS: HIGHWAYS: DRIVING CTCLE: VEHICLE HILES
TYAVELED: TRAFFIC: FORECASTING:
CLASSIFICATIONS: WEIGHT: SIZE: AIR
CONDITIONING: TRAFFIC CONTROL: PUPL ECONOMY
AVAILABILITY: WIIS

Library of Congress, Congressional Research
Service
ADDWESS: Washington, DC 20540
TITLE: National Energy Transportation. Volume
III: Issues and Problems

Congressional Committee Print, 95th Congress, 2nd
Session, Publication No. 95-15, 560 p.
1978, March
SPONSOR: U.S. Senate, Committee on Energy and
Matural Resources; U.S. Senate, Committee on
Commerce, Science, and Transportation
RETWORDS: WEATHER: HAZARDS: LYQUEFIED HATURAL
GAS: INTERNATIONAL RELATIONS: REGIONAL
ANALYSIS; FUELS; RAIL TRANSPORTATION; EMERGY
SOPPLIES; ENERGY RESOURCES; PLIFELINE
TRANSPORTATION; CALC: PETROLEDN: MATURAL
GAS:
TRUCKS: CARGO TRANSPORTATION: HIGHWAY
TRANSPORTATION; ALASKA; IMPORTS; TANKER
SHIPS; SAPETY; TRANSPORTATION; FUEL
ETFICIENCY; STANDARDS; RATES (COSTS);
REGULATIONS
AVAILABILITY: GPO, Stock No. 052-070-04469-1

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Liff, S.D.
Yoorhees (Alan H.) and Associates Inc.
ADDRESS: Hclean, VA
TITLE: Travelers' Attitudes and Energy
Conservation

20 p.
REYUORDS: TRAVEL; ATTITUES; EMERGY COMMENTATION;
BEHAVIOR; PLANNING; PORBCASTING; AUTOHOBILE
DRIVERS; AUTOHOTIVE PUBLS; PRICES;
AVAILABILITY; SOCIO-ECONONIC FACTORS; FUBL
ECOMONY; VEHICLE TRIPS; EMERGY SHORTAGES;
GASOLIME; URBAN TRANSPORTATION; SURVEYS;
PUBLIC OPINION; AUTOHOBILES; OWNERSHIP;
COMMUTING

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Rath 6 Strong Inc.
ADDRESS: 21 Wrothen Road, Lexington, HA 02173
TITLE: Autosotive Data Base for Hanufacturing
Assessment System

398 p.
1976, June 1
SPONSOR: U.S. Dept. of Transportation,
Transportation Systems Center
REYMORDS: AUTOHOTIVE INDUSTRY: TABLES (DATA);
GRAPHS (CHARTS): DATA BASES: COSTS:
DEVELOPMENT; HAINTENANCE; PRODUCTION;
COMPARATIVE EVALUATIONS: HANGFACTURING;
HANGFACTURERS; ENGINES; AUTOHOBILES;
VERICLES; FORL ECOMONY; TRUCKS: EQUIPMENT

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Lindsey-Raufman Co
ADDRESS: 53 Mamilton Place, Tenafly, NJ 07670
TITLE: Projection of Light Truck Population to
Tear 2025

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

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Lippsann, S.A.; Oblizajek, K.L.; Metters, J.J.
Diroyal Tire Co.
TITLE: Sources of Rolling Resistance in Radial
Ply Tires

Paper No. 780258, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 16 p. 1978 MEYMORDS: TIRES: FRICTION; WEAR; TESTING; HEAT; GRAPHS (CHARTS); DESIGN

REYWORDS: TIRES: FRICTION; WEAR; TESTING; HEAT; GRAPHS (CHARTS); DESIGN AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

<381>
LHC Corp.
ADDRESS: 476 Dunn Circle, Sparks, NV 89431
TITLE: Evaluation of Selected Drive Components

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<381> <381> COFT. for a Flywheel Powered Commuter Vehicle. Final Report. Phase I

Report No. SAN/1164-1, LHC-770401-8, v.p. 1977, June 30 1977, June 30
SPONSOR: Energy Research and Development
Administration, San Francisco Operations
Office: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KPYMOPDS: PLYMREELS: EMERGY STORAGE; DIAGRAMS;
GRAPHS (CHARTS); ELECTRIC VEHICLES; TESTING;
MODELS: ROTORS: BERRINGS; SHAFTS; SEALS AVAILABILITY: MTIS

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Loncutoff, W.V.
Battelle Pacific Northwest Laboratories
ADDERSS: Fichland, WA 99352
TITLE: Flywheel/Heat Engine Power for an
Fhergy-Econosic Personal Vehicle

Report No. 8891-2006, 48 p. 1976, Barch SPONSOR: Energy Research and Development Alainistration
RETWORDS: PLIMBERS; ADTOROBILES; HEAT ENGINES;
PUBL CONSUMPTION: TABLES (DATA); PUBL BCOFORT; DESIGN AVAILABILITY: NTIS

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

1976
REYWORDS: EMERGI COMSERVATION; CONHUTING; MEW
JERSEY; HAPS; COMPABATIVE EVALUATIONS; EMERGY
CONSUMPTION; GOVERNMENT POLICIES;
AUTOMOBILES; PUBLIC TRANSPORTATION; PLANNING;
ANTOMOBILE OCCUPANCY; HODELS; CARPOOLING;

ATTOMOSILE OCCUPANCI; HODELS; CARPUOLING; EFFICIERC; AVAILABILITI: Mational Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NY, Washington, DC 20418 \$5.00 for Transportation Research Record 561

<384> Maio, D.J.; Wang, G.H.; Weltzer, N. U.S. Dept. of Transportation, Transportation Systems Center ADDRESS: Rendall Square, Cambridge, MA 02182 TITLE: Porecasting Models for Air Preight Demand and Projection of Cargo Activity at U.S. Air

Report No. PAA-AVP-77-2, 175 p.
1977, January
SPOHSOR: 7.5. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation POILCY
RETWORMS: FORECASTING; HODELS; CARGO
TRANSPORMATION; AVIATION; AIRPORTS;
ECONOMETRIC HODELS; PASSENGER EMPLAMEMENTS; GRAPHS (CHARTS); INTERNATIONAL TRAVEL; DEMAND (ECONOMICS)
AVAILABILITY: NTIS

Highway Improvement Projects

Report presented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 585, 35-48 REYBORDS: RIGHWAYS: CONSTRUCTION: PLANEING: STATE GOVERNMENT: QUESTIONEATRE:
GOVERNMENT: QUESTIONEATRES
AVAILABILITY: Wational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. 3W, Washington, DC 20418
\$3.60 for Transportation Research Record 585

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Halliaris, A.C.; Hsia, H.; Gould, H.H.
J.S. Dept. of Transportation
ADDRESS: Washington, DC
TITLE: Concise Description of Auto Fuel Economy
and Performance in Recent Hodel Years

Paper No. 760045 presented at the Automotive Engineering Congress and Exposition, Detroit, Michigan, Pebruary 23-27, 1976, 13 p. 1976
SPONSOR: Society of Automotive Engineers
RETFORDS: ALGORITHMS; FUEL ECONOMY; FERICLES;
TABLES (DATA); GRAPHS (CHARTS); AUTOMOBILES;
TRUCKS; PERFORMANCE; ACCELERATION
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.75

< 3875 Handelker, D.R.; Stamper, H.A. Washington, University of, School of Law ADDRESS: Seattle, WA 98105 TITLE: New Frontiers for Land Development Controls

Paper presented at the 54th Annual Heating of the Transportation Research Board, published in Transportation Research Record 565, 6-11

1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
RETWORDS: LAND DEVELOPMENT: POLLUTION
REGULATIONS: TRANSPORTATIOF SISTEMS; AIR
POLLUTION; GOVERNHENT POLICIES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. My, Washington, DC 20418
\$6.00 for Transportation Research Record No.
565

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Harcus, A.
Hechanical Technology Inc.
ADDRESS: 968 Albany-Shaker Road, Lathan, NY
TITLE: An Advanced Electric Motor Transmission
for Electric Vehicles: Development Plan. Technical Report

Report No. C00/2835-3, v.p. 1977. November Report No. COO/2835-3, v.p.
1977, Forember
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: TECHNOLOGY ASSESSMENT; EFFICIENCY;
DESIGN; FABRICATION; ELECTRIC VEHICLES;
MODELS; TABLES (DATA); TRANSPORTATION; GRAPHS
(CRAPEL) TRANSPORTATION; GRAPHS (CRARTS); TESTING AVAILABILITY: HTIS

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Harcus, A.; Pinkus, O.
Hachanical Technology Inc.
ADDRESS: Lathan, NY
TITLE: Characterization Stud, of an Electric
Hotor-Transmission System for Electric
Vehicles: Technical Report

Report Fo. COO/2835-2, v.p.
1977, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETFORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
BATTERIRS; TECHBOLOGI; TESTING;
SPECIFICATIONS; ELECTRIC MOTORS; EFFICIENCY;
AUTOHOTIVE ENGINEERING; COST ESTIMATES;
GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: HTIS

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Harek, C.; Jones, T.R.
Yulcan Materials Co.
TYTE: Vill There Be a Haterials Crisis?

Paper published in Transportation Research Board Special Peport 166, 18-28
1976
REY*ORDS: CONSTRUCTION; HATERIALS; TRANSPOPTATION; HIMERALS; RESERVES; PRODUCTION; TABLES (DATA); GRAPHS (CHARTS) AVAILABILITY: Mational Research Council, Transportation, Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$6.00 for TRB Special Paport 166

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Marer, Harketing Committee
ADDRSS: 401 W. Hichigan Ave., Chicago, IL 6061
TITLE: State Boat Registration 1967 - 1975

25 p.
REYMORDS: BOATS; VEHICLE REGISTRATIONS;
HATEFIALS; TABLES (DATA); SIZE

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Rarshall, W.F.; Stamper, R.R.
Bnergy Pesearch and Development Administration,
Bartlesville Energy Research Center
ADDRESS: P.O. Box 1398, Bartlesville, OR 74003
TITLE: Puel Consumption, Esissions, and Pover
Characteristics of the 1975 Dataun 119-CID
Automotive Engine--Experimental Data

Peport No. PB-261308, DOT-TSC-OST-76-42, AO p.
1976, November

PONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering;
U.S. Dept. of Transportation, Transportation
Systems Center, Power and Propulsion Branch
RETWORDS: PURL CONSUMPTION; AUTOHOTIVE EMISSIONS;
INTERNAL COMBUSTION SMGINES; PERFORMANCE;
TESTING: CARBON HONOXIDE; HITROGEN OXIDES;
HTDPOCARBONS; GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: HTIS

Characteristics of the 1975 Ford 140-CID Automotive Engine--Experimental Data

Report No. PB-261771, DOT-TSC-OST-76-43, 40 p.
1976, Rovember
SPOWSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering;
U.S. Dept. of Transportation, Transportation
Systems Center, Power and Propulsion Branch
REYWORDS: PUEL CONSUMPTION; AUTOHOTIVE EMISSIONS;
INTERNAL COMBUSTION EMGINES; PERFORMANCE;
HUDROCARBONS; CARBON HONDIDE; NITROGEN
OXIDES; TESTING; GRAPHS (CHARTS); TABLES
(DATA)
AVAILABILITY; HTIS

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Rattin, W.F. (ed.)
Rassachusetts Institute of Technology, Workshop
 on Alternative Energy Strategies (WAES)
ADDRESS: Casbridge, NA 02139
TITLE: Energy Supply to the Year 2000: Global
 and Mational Studies

Second Technical Report of the Workshop on Alternative Energy Strategies (WAES), 422 p. 1977
SPONSOR: National Science Foundation KEIWORDS: EMERGY SUPPLIES; FORECASTING;
INTERNATIONAL ANALYSIS; COAL; RESERVES; EMERGY DENAND; ENTURAL GAS; PRODUCTION; BEERGY CONSUMPTION; MUCLEAR EMERGY; FUELS; FOSSIL FUELS; UNCONVENTIONAL EMERGY SOURCES; PETROLEUR; INTERNATIONAL TRADE; GROWTH; CAWADA; DEWHARK; FIRLARD; PRANCE; GERMAN FEDERAL REPUBLIC; ITALT; JAPAW; HEXICO; METHERLANDS; MORWAY; SMEDEN; UNITED KINGDON; UNITED STATES; OPEC; COSTS; TABLES (DATA); EUROPE; GOVERNMENT POLICIES; PRICES
AVAILABILITY: MIT Prese, Cambridge, HA 02139 \$30.00

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Mason, W.T., Jr.; Bebbe, P.S.
General Motors Corp., Research Laboratories,
Fluid Dynamics Research Dept.
ADDRESS: Warren, HI 48090
FITLE: The Drag Related Flow Field
Characteristics of Trucks and Buses

Research Publication GHR-2257, presented at 1976 GHR Symposium on Aerodynamic Drag Mechanisms of Bluff Bodies and Road Vehicles, September 27, 1976, 6a p. 1977, August REYMORDS: TRUCKS; BUSES (VEHICLES); AERODYNAMICS; DESIGN; SIZE; DRAG; TRAILERS; DIAGRAMS; <396> <396> CONT.

< 397> <397>
Maximina, D.E. (compiler): Mobley, E.R. (ed.)
General Motors Corp., Research Laboratories,
 Library, System on Automotive Safety
 Information
ADDRESS: Warren, MI 48090
TITLE: Electric Vehicles, 1890-1966: A Bibliography

Report No. GMR-2925, SASI 77-521, V.p. 1977, May 13
REYMORDS: ELECTRIC VEHICLES; BIBLIOGRAPHIES; HISTORY; AUTOHOBILES; BUSES (VEHICLES); TAXICABS; TRUCKS: EQUIPMENT: BATTERIES

McCarthy, R.P.; Morrison, P.A. Rand Corp.

ADDRESS: 1700 Hain Street, Santa Honica, CA 90406
TITLE: The Changing Deacyraphic and Economic
Structure of Monmetropolitan Areas in the

Report No. P-6062, earlier version given at Annual Meeting of Population Association of America, April, 1977, St. Louis, Missouri, 51 1978. January RETWORDS: POPULATION GROWTH; DEMOGRAPHT; URBAN DEVELOPMENT; RURAL AREAS; RECREATION; FAMILY LIPE; HANUPACTURING; EMPLOYMENT; REGIONAL ANALYSIS; POPULATION HIGRATION; STATE

ANALISIS; POUR ALL CONTROL OF THE CO SOCIO-ECONOMIC FACTORS

<399> <399>
HcGillivray, R.G.
Trban Institute
ADDRESS: 2100 H Street NW, Rashington, DC 20037
TITLE: Gasoline Use by Automobiles

Paper presented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 561, entitled "Transportation Energy Conservation and Demand, # 45-56

1976
SPONSOR: Wational Academy of Sciences,
Transportation Research Board
REIWORDS: GASOLIBE; CONSUMPTION; AUTOMOBILES;
TRANSPORTATION: FUEL CONSUMPTION; COSTS;
TABLES (DATA); FORECASTING; DEMAND
(ECOPOMICS); WATHENATICAL MODELS; PASSENGER
TRANSPORTATION; OWNERS; HARKET; PRICES;
ELASTICITY (ECONOMICS)

<400> RCGraw-Hill Publications Co., Research Division ADDRESS: 1221 Avenue of the Americas, New York, RY 10020 TITLE: Fleet Owner Puels and Lubricants Survey

1978, February
SPOMSOR: HcGraw-Hill Publications, Fleet Owner
REFFORDS: SURVEYS; MOTOR VEHICLES; LUBRICANTS;
DIESEL FUELS; PUBCHASES; QUESTIOWALIES;
HAIMTEWANCE; FUEL COMSUMPTION; TRUCKS; TABLES
(DATA); GASOLINE; FUEL STORAGE
AVAILABILITY: \$25.00

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ftcRetta, J.
Texas, University of
ADDRESS: Austin, TX
TITLE: The Energy Crisis: Fact or Fiction

Paper published in Transportation Research Board Special Report 166, 5-9 1976

1976
KEYMORDS: EMERGY SHORTAGES; IMPORTS; EMERGY
COMSUMPTION; PRODUCTION; PETROLEUM; MATURAL
GAS; COAL; EMERGY DEMAND; RESERVES; EMERGY
SOURCES; GRAPHS (CHARTS)
AVALABILITY: National Academy of Sciences,
Mational Research Council, Transportation
Research Board, 2101 Constitution Ave. BW,
Washington, DC 20418 \$6.00 for TRB Special
Report 166 \$6.00 for TRB Special

<402> McLean, A.F.: Baker, R.R. Ford Motor Co. ADDRESS: Dearborn, HI 48121 TITLE: Brittle Haterials Design, High Temperature
Gas Turbine. Volume 2: Ceramic Turbine Rotar Technology

Report No. AMERC TR 78-14, DA-OD 4733, 12th Interim Report for the Period January -September 1977, 93 p.

September 17,7, 20 gr.
1978, March
SPONSOR: U.S. Dept. of Defense, Army Materials
and Mechanics Research Center; U.S. Dept. of
Energy, Division of Transportation Energy
Conservation
DESTGN: GAS TURBINES;

KETWORDS: HATERIALS; DESIGN; GAS TURBINES; CERANICS; ROTORS; TECHNOLOGY: HIGH CBRANTLS; NUTURS; TECHNULOGI; 11GH TERPERATURE; BRITTLENESS; FABRICATION; SILICON NITRIDES; TESTING; COMPUTER PROGRAMS; TABLES (DATA); GAS TURBINE ENGINES; SILICON CARBIDES; RECHANICAL PROPERTIES; PHOTOGRAPHS; DIAGRAMS AVAILABILITY: NTIS

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< 803> McMutt, R.; Pirkey, D.; Dulla, R. U.S. Dept. of Energy; Energy and Environmental Analysis Inc. TITLE: Passenger Car Classification Using Interior Volume: A 1978 Up-Date

Paper No. 780133, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - Harch 3, 1978, 24 p.

RETWORDS: AUTOHOBILES; CLASSIFICATIONS; VOLUME; SIZE; WEIGHT; FUEL ECONOMY; DESIGN; PASSENGER TRANSPORTATION; TABLES (DATA)
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA \$2.50

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RCHutt, B.; Pirkey, D.; Dulla, R.; Hiller, C.
U.S. Dept. of Energy; Energy and Environmental
Analysis Inc.
TITLE: A Comparison of Fuel Economy Results from
EPA Tests and Actual In-Use Experience,
1974-1977 Hodel Year Cars

Paper No. 780037, presented at the Society of Automotive Engineers' Congress and

<404> CORT. Exposition, Cobo Hall, Detroit, Hichigan, Pebruary 27 - Harch 3, 1978, 44 p.

TATE
RETWORDS: PURL ECONOMY; AUTOHOBILES; TESTING;
COMPARATIVE EVALUATIONS; ENVIRONMENTAL
PROTECTION AGENCY; US DOE: MILBAGE;
OPERATION; DRIVING CYCLE; DATA ACQUISITION;
HANDACTURERS; CLASSIPICATIONS; GRAPHS (CHARTS)

(CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Farrendele, PA
15096 \$2.50

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RCWART, R.D.: Firkey, D.: Dulla, R.
Federal Energy Administration
ADDRESS: Washington, DC
FITTLE: Development of a System of Comparable Car
Classes for Fuel Economy Labeling

Paper No. 76079%, paper presented at the Society of Autosotive Engineers Automobile Engineering Reeting, Dearborn, Michigan, October 18-22, 1976, 38 p.

1976
SPONSOR: Society of Automotive Engineers
REYWORDS: AUTOMOBILES; FUEL ECONOMY; COMPARATIVE
EVALUATIONS: CLASSIFICATIONS; TABLES (DATA);
PUBLIC OPINION; CONSUMERS; PRICES;
PERFORMANCE; GRAPHS (CHARTS); ENVIRONMENTAL
PROTECTION AGENCY; SIZE
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<406>
Head, W.J.; Rogers, G.W.; Smith, R.Z.
Callfornia, University of: Alasks, University of, Institute of Social, Roononic and Governmental Research; U.S. Dept. of State
ADDRESS: CU, Santa Barbara, CA 93109; AU, College, AK 99701; USDS, Washington, DC 20520

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

111 p. 1977 SPONSOR: American Enterprise Institute for Public

SPONSOR: American Enterprise institute folicy Research
RETWORDS: NATURAL GAS: ARCTIC: PRUDHOE BAY
(ALASKA): EMVIRONMENTAL IMPACT: TABLES
(DATA): HAPS: RCOWOMIC ANALYSIS:
TRANSPORTATION: GOVERNMENT POLICIES;

TRANSPORTATION; GOVERNMENT POLICIES; REGULATIONS: COSTS: CANADA: ALASKA: TRANSPORTATION SYSTEMS AVAILABILITY: American Enterprise Institute for Public Policy Rehearch, 1150 Seventeenth St. NW, Washington, DC 20036 \$3.25

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

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

<408>

Report No. PB-263351, DOT-TSC-08T-76-51, 46 p. 1976, December

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and SECRETARY FOR SYSTEMS DEVELOPMENT and Technology RETWORDS: TRAVEL; PORECASTING; AUTOHOBILES; HODRLS; VEHICLE RILES TRAVELED AVAILABILITY: HTIS

<409> <quy>
Rencik, Z.; Blumberg, P.W.
Ford Motor Co., Engineering and Research Staff
ADDRESS: Dearborn, HI
TITLE: Representation of Engine Data by
Hulti-Variate Least-Squares Regression

Paper No. 780288, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1979, 16 p.

REYWORDS: AUTOMOTIVE ENGINES; VELOCITY; PERFORMANCE; DESIGN; LOAD FACTOR; FU ECONOMY; AUTOMOTIVE 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;
AUTOHOBILES; VELOCITI; HECHANICAL
TRANSMISSIONS; TIRES; FRICTION; AUTOHOTIVE
ENGINES; PERFORMANCE; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Marrendale, PA
15096 \$2.50

Nercedes-Benz of Worth America Inc., Advertising and Sales Promotion Dept.
ADDRESS: One Mercedes Drive, Hontvale, NJ 07645
FITLE: Directory of Diesel Fuel Stations and
Authorized Hercedes-Benz Dealers

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

<412> CB 125 <a12>
HighGoll, P.; Hahn, W.P.
Boos, liles & Hamilton Inc., Design and
Development Division
ADDRES: Cleveland, OH \$4131
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/WASA/0595-78/1, WASA CR-13541, 140 p.
1978, April
SPOUSDE: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; Mational
Aeronautics and Space Administration, Levis
Research Center

Research Center

KHYFORDS: PORES TRAIN SISTEMS; BLECTRIC VEHICLES;
TECHNOLOGY ASSESSMENT; NOTORS; AUTOHOBILS
TRANSMISSIONS; NODELS; DESIGN; COMPUTERIZED
SINULATION; DIAGRAMS; TABLES (DATA)
AVAILABILITY; HTIS

C41)7
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, Milwaukee Section Milwaukee Section
RETUORDS: PUBL ECONOMY; AUTOMOTIVE BMGINEERING;
AUTOMOSILES; DESIGN; WIIGHT; AUTOMOTIVE
BMISSION CONTROL; PUBL CONSUMPTION; GRAPHS
(CHARTS); PERFORMANCE
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Common wealth Drive, Warrendale, PA
15096 for SAE SP-411

Riine, J.A.; Cantwell, C.; Eissler, R. 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; AUTONOBILES;
CHARACTSRISTICS; FUEL ECONOMY; PRODUCTION;
TABLES (DATA); AUTONOTIVE BHISSIONS;
HANUFACTURENS; COMPARATIVE SYALDATIONS;
PREPORNANCE: OPERATION; WEIGHT PERFORMANCE; OPERATION; WEIGHT AVAILABILITY; NTIS

<415> Riner, D.K.
Copper Development Association Inc.
ADDRESS: Birsingham, 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, September

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

C4165 Natio, 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. NASHINGTON, DC, JANUARY 24-28, 1977, 34 p.
1977, January
SPONSOR: Ohio State University, Graduate School
REYNORDS: UNBAN TRANSPORTATION; COMPARATIVE
EVALUATIONS; TRANSPORTATION SYSTEMS; BAIL
TRANSPORTATION; RAPED TRANSIT SYSTEMS; BUSE:
(VERICLES); COSTS; BAY ARRA RAPID TRANSIT BUSES

<417> C417)
Rittal, R.K.
Union College, Mechanical Engineering Dept.
ADDRESS: Schenectedy, NY 12308
TITLE: Energy Intensity of Intercity Passenger
Rail

Report No. DOT/RSPD/DPS/50-78/7, 296 p. 1977. December 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; RAILROAD CARS; OPERATION; CAPACITY; ELECTRIC RAIL SYSTEMS; AUTOHOBILES; BUSES (WEHICLES); GRAPHS (CHARTS); TABLES (DATA) AVAILABILITY: GPO

CA18> C4107
Hittal, R.K. (ed.)
Union College
ADDRESS: Schenectady, NY 12308
TITLE: Third National Conference on the Effects
of Energy Constraints on Transportation

Proceedings of a conference held at Union College, Schenectady, New York, August 2-6, 1976, 408 p. 1977, Hay

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

< 819> Mittal, R.K.; Rose, A. Union College, Mechanical Engineering Dept.

<419> COTT.
ADDRESS: Schenectady, NY 12308
TITLE: Track Data Characteristics for New York
City - Reffalo Corridor

Pinal Report, Report No. DOT/RSPD/DPB/50-77/09, 49 p.
1977, Aquat
SPONSOR: U.S. Dept. of Transportation, Office of Thiversity Research
RYMORDS: EEN TORK CITY; RAIL TRANSPORTATION;
RAITROAD TRACKS: DISTANCE; BUFFALO (MEN
TORK); TRAVEL TIME; EMERGY CONSUMPTION;
EFFICIBRCY; AUTOROBILES; URBAN
TRANSPORTATION; SPEED LIMITS;
CHAPACTERISTICS: TABLES (DATA); GRAPHS
(CHARTS); COMPARATIVE EVALUATIONS

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Tittal, R.R.; Santamaria, J.
Union College, Hechanical 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
KETWORDS: MAILBOADS; EQUIPMENT; PASSENGER
TRANSPOPTATION; PERFORMANCE; LOCOHOTIVES;
RAILROAD CARS; PHYSICAL PROPERTIES;
RECHANICAL PROPERTIES; FUEL CONSUMPPION;
GRAPHS (CHARTS): DIAGRAMS; TABLES (DATA);
EFFICIENCY; AHTRAK
AVAILABILITY: HTIS

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**Tobley, 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
REYWORDS: ELPCTRIC VEHICLES; BIBLIOGRAPHIES;
HISTORY; CONFERENCES; ENVIRONRENTAL IMPACT;
GOVERNMENT POLICIES; AUTOHOBILES; BUSES
(VERICLES); HYBRID ELECTRIC-POWERED VEHICLES;
TRUCKS; VANS; BATTERIES

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Roncrief, t.W.: Bouser, T.W.: Pitrak, P.
Richigan State University, Dept. of Park and
Recreation Resources
ADDRESS: East Lansing, HI
TITLE: The Influence of Gasoline Price and
Availability Upon Recreation Travel Propensity

Communications, 3(5), 931-947
1977
SPONSOR: Upper Great Lakes Regional Commission
RETWORDS: GASOLIER: PRICES: RECREATIONAL TRAVEL;
FIEL CONSUMPTION: TOURISM: GREAT LAKES;
REGIONAL ANALYSIS: INCOME; AUTOHORILES;
ATTITUDES: PUBLIC OPTRION

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Nonford, L.G.
Fational Aeronautics and Space Administration,

Lyndon B. Johnson Space Center
hDDBESS: 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
KEYHORDS: DIESEL ENGINES; SOLID WASTES; ALTERNATE
FUELS; FURIGATION; DIESEL FUELS; PERFORMANCE;
SYNTHETIC FUELS
AVAILABILITY: NYIS

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Moon, A.E.
Stanford Research Institute
ADDRESS: Henlo Park, CA 94025
FITLE: Energy Study of Reilroad Preight
Transportation. Volume 1: Executive Summary
SRI Project TCU 5419, 37 p.
1977, August
SPOHSOR: Energy Research and Development
Administration
KEIFORDS: RAIL TRANSPORTATION; CARGO
TRANSPORTATION; EMERGY CONSUMPTION; EMERGY
CONSERVATION; GOVERNHENT POLICIES;
REGULATIONS; ECOMONICS; EQUIPHENT;
EPPICIENCY; GRAPHS (CHARTS)

SRI Project TCU 5419, 146 p.
1977, August
SPONSOR: Energy Research and Development
Administration
REYFORDS: RAIL TRANSPORTATION; CARGO
TRANSPORTATION; EMERGY CONSUMPPION; EMERGY
CONSERVATION; GOVERNMENT POLICIES;
REGULATIONS; ECONOMICS; EQUIPMENT;
EPPICIENCY; HISTORY; CONSTRUCTION; RAILROADS;
HODELS; COSTS; TRUCKS; REGULATIONS; TABLES
(DATA); GRAPHS (CHARTS)

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Roon, 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 Future

SRI Project TCU 5419, 155 p.
1977, August
3FONSOR: Energy Research and Development
Administration
RETWORDS: RAIL TRANSPORTATION; CARGO
TRANSPORTATION; EFFICIENCY; FORECASTING;
TECHNOLOGY; ENERGY CONSERVATION; HARKET;
RESEARCH; BIBLIOGRAPHIES; COSTS; EQUIPMENT

<427>
Noore, R. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. BW, Washington,

A STATEMENT OF THE

<427> <427> CONT. 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. KEYWORDS: TRANSPORTATION; MANAGEMENT; HIGHWAYS; REFOUNDS: TARNSPORTATION; TARNSBERENT; HIGHWA CONSTRUCTION; PLANBING; SAPETY; PLORIDA; WASHINGTON; STATE GOVERNMENT; GOVERNMENT POLICIES; TABLES (DATA) AVAILABILITY: \$3.60

<428> Morlok. R.K. Morlok, E.K.
Pennsylvania, University of, Civil and Urban
Engineering Dept.
ADDRESS: Philadelphia, PA 19174
TITLE: An Engineering Analysis and Comparison of
Railroad and Truck Line-Haul Work (Energy) 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: RAIL TRANSPORTATION: TRUCKS: ENERGY RETTORDS: RAIL TRANSPORTATION; TRYCKS; EMERGY CONSUMPTION; HEIGHT; VELOCITY; EMERGY DEMAND; COMPARATIVE EVALUATIONS; CARGO TRANSPORTATION; INTERCITY TRANSPORTATION; FTEL CONSUMPTION; TABLES (DATA); GRAPHS (CHARTS); BROINEERING; MODELS; PROPULSION AVAILABILITY: GPO, Stock No. 060-000-00073-5 for entire proceedings

Morrison, r-n-Rand Corp. ADDRESS: 1700 Main Street, Santa Monica, CA 90406 TITLE: Current Demographic Change in Regions of the United States Report No. P-6000, presented at a conference on "Alternatives to Confrontations: A National Policy Toward Change", held at the University of Texas, Austin, Texas, September 24-27, 1977, 37 p. 1977, November SPONSOR: U.S. Dept. of Commerce
RETWORDS: DEMOGRAPHY; ECONOMIC IMPACT; REGIONAL
AMALYSIS; POPULATION MIGRATION; EDUCATION; AMALYSIS; POPULATION MIGRATION; EDUCATION; SOCIAL PROBLEMS; URBAN AREAS; ENERGY SHORTAGES; NORTHEASTERN STATES; INPORTS; GREAT LAKES; SOUTHERN STATES; WESTERN STATES; POLITICAL OBJECTIVES; RURAL AREAS; PLANNING; STABILITY; GROWTH; STATISTICS; GRAPHS (CHARTS); TABLES (DATA); FAMILY LIFE; HAPS; LABOR HIGRATION

Notor Vehicle Hamufacturers Association of the U.S. Inc. ADDRESS: 300 New Center Building, Detroit, HI TITLE: Notor Vehicle Facts & Figures '78 Annual publication, 96 p. RETWORDS: HOTOB TRANSPORTATION; STATISTICS; FUEL BCOHONT; STANDARDS; TRUCKS; BUSES (VEHICLES); PASSENGER TRANSPORTATION; ENERGY CONSERVATION: ECONOMIC AMALYSIS:
HAMUPACTURERS; GRAPHS (CHARTS); PUEL
CONSUMPTION; EMISSIONS; AIR TRANSPORTATION;
EXPORTS; WATER TRANSPORTATIOR; TAIES; RAIL
TRANSPORTATION; EMPLOYMENT; EARNEWGS; ROADS;
ACCIDENTS; VEHICLE REGISTRATIONS; OWNERSHIP; PRODUCTION; VEHICLE MILES TRAVELED

<431> Notor 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. RETWORDS: STATISTICS; VEHICLES; TABLES (DATA); REWOODS: STATISTICS; VEHICLES; TABLES (DATA);
INTERNATIONAL TRADE; PRODUCTION; EXPORTS;
VEHICLE REGISTRATIONS; AFRICA; ASIA; EUROPE;
IMPORTS; ADSTRALIA; NEW ZEALAND; REGIONAL
AMALYSIS; HORTH AMERICA; 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. Weekly PROFILE CLOSE STATES AUTOHOBILES; TRUCKS; BUSES (VEHICLES); STATISTICS; EXPORTS; IMPORTS; COSTS; PRODUCTION; SALES

Motorcycle Industry Council Inc., Research and Statistics Dept.
ADDRESS: 4100 Buck Street, Suite 101, Hewport
Beach, CA 92660
TITLE: 1978 Hotorcycle Statistical Annual Annual report, 46 p. RETWORDS: HOTORCYCLES; STATISTICS; HARKET; VEHICLE REGISTRATIONS; HANDFACTORERS; UTILIZATION; VEHICLE MILES TRAVELED; PINANCIAL DATA; SALES; IMPORTS; OPERATING COSTS; ACCIDENTS; OWNERS; COSTS AVAILABILITY: \$5.00

<434> <439> Rudge, R.R.; Wheeler, P.K. U.S. Congress, Congressional Budget Office, Matural Resources and Commerce Division ADDRESS: Washington, DC TITLE: Urban Hass Transportation: Options for Pederal Assistance

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Budget Issue Paper, 73 p.
1977, Pebruary
RETWORDS: URBAN TRANSPORTATION; HASS
TRANSPORTATION; GOVERNMENT POLICIES; BUDGETS;
CAPITAL; INVESTMENTS
AVAILABILITY: GPO \$1.65

(835) Bueller Associates Inc.

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Morrison, P.A.

<435> CONT. ADDRESS: Baltimore, HD TITLE: Status of Alcohol Fuels Utilization Technology for Highway Transportation

Report No. HCP/H2923-01, 132 p.
1978, June
SPOHSOR: W.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: ALTERNATE FUELS; UTILIZATION; ALCOHOL
FUELS; HIGHAIT TRANSPORTATION; HETHANOL;
ETHANOL: TESTING: ENGINES; RHISSIONS;
PTRYORNANCE; PUEL ECONOMY; PUBL CONSUMPTION;
COMPARATIVE EVALUATIONS; PROPERTIES; COSTS;
GRAPHS (CHARTS); WATER
AVAILABILITY: HTIS

CB365 Hueller Associates Inc. ADDRESS: Baltimore, HD TITLE: Denaturants for Ethanol/Gasoline Blends

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

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

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

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

Transportation
KETWORDS: TRAFFIC CONTROL; HIGHWAY
TRANSPORTATION; BUSES (VEHICLES); CARPOOLING;
HODELS; COMPARATIVE EVALUATIONS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. RW, Washington, DC 20418
\$2,20 for Transportation Research Record 626

Mundt, F.H. Peat, Harwick, Hitchell and Co. TITLE: Heltiproject Scheduling for Transportation Construction Programs

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

SCHEDULING: STATE GOVERNHENT; HANAGENEHT;
FUNDING: FLORIDA; PLANNING
AVAILABILITI: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3,60 for Transportation Research Record 585

<439> 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 1977

SPONSOR: Mational Cooperative Highway Research

PROFSOR: Batlonal Cooperative Maynes, Machine Program REYMODDS: MASS TRANSPORTATION; PUBLIC TRANSPORTATION; CONSUMERS; ATTITUDES; SERVICES AVAILABILITY: Mational Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$3.20 for Transportation Research Record 625

<440> Numson, J.S.; Brainard, J.P.
Brookhaven Mational Laboratory, Mational Center
for Analysis of Energy Systems, Policy
Analysis Division
ADDRESS: Upton, MY 11973
TITLE: The Energy Situation in the Mid-Atlantic

Report No. BUL 50703, 253 p.
1977, August
SPOMSOR: U.S. Dept. of Energy
KEYWORDS: HIDDLE ATLANTIC STATES; EMERGY
SUPPLIES; EMERGY DEMAND; DISTRICT OF
COLUMBIA; DELAWARE; HARTLAND; NEW JERSEY; NEW
YORK; ORTO; PENNSILVANIA; PURETO RICO;
YIRGINIA; VIRGIN ISLANDS; EMERGY CONSUMPTION;
PETROLEUM; NATURAL GAS; COAL; HUCLEAR EMERGY;
HYDROELECTRIC POWER; TABLES (DATA); REGIONAL
ANALYSIS; STATE ANALYSIS; ELECTRIC UTILITIES;
PRODUCTION; EMPLOYMENT; GRAPHS (CHARTS);
PRICES; ENVIRONMENTAL IMPACT; AIP QUALITY;
WATER QUALITY; EMERGY CONSERVATION;
GOVERNMENT POLICIES; LEGISLATION
AVAILABILITY; NTIS Report No. BWL 50703, 253 p. AVAILABILITY: NTIS

<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, Hichigan, February 27 - March 3, 1978, 36 p. 1978

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

<qq2>
waill, 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
KETWORDS: MATIONAL EMERGY PLAM: EMERGY POLICY;
EMERGY BODELS: EMERGY CONSERVATION; PETROLEUH; MATURAL GAS; COAL; PRICES; PORECASTING; EMERGY DEMAND; IMPORTS; PRODUCTION; COMPARATIVE EVALUATIONS; GOVERNMENT POLICIES; OPEC; EMERGY COMSUMPTION

<443) <443> Fational Academy of Sciences, National Research Council, Assembly of Engineering, Energy Engineering Board, Committee on Advanced Energy Storage Systems ADDEMSS: 2101 Constitution Ave. NY, Vashington, hDDFESS: 2101 Constitution Ave. HF, Washington, DC 20018 TITLE: Development Schedules for Vehicle Energy Storage Systems 19 p. 1977
SPONSOR: Energy Research and Development
Administration
REPFORDS: ELECTRIC VEHICLES; DEVELOPMENT;
TRANSPORTATION; LEGISLATION; ENERGY STORAGE;
BATTERISS; PLYMERELS; PORECASTING; HYBRID
ELECTRIC-POWERED VEHICLES

Fational Academy of Sciences, Fational Research Council, Assembly of Life Sciences, Committee on Toxicology

ADDRESS: Washington, DC TITLE: Fuels and Fuel Additives for Highway Vehicles and Their Combustion Products: Guide to Evaluation of Their Potential Effects on Health

49 p. 1976 1976
SPONSOR: U.S. Environmental Protection Agency
RETWORDS: HIGHWAY TRANSPORTATION: HOTOR VERICLES;
PUBLS: FUBL ADDITIVES: AUTOHOTIVE EHISSIONS;
HEALTH HAZARDS; TOXICITY: POLLUTION
REGULATIONS: STANDARDS; TESTING
AVAILABILITY: Mational Academy of Sciences, 2101
Constitution Avenue, Fashington, DC 20418

(885> C485>
Rational Academy of Sciences, Hational Research
Council, Highway Research Board
ADDRESS: 2101 Constitution Ave. HW, Washington,
DC 20418
TITLE: Travel Behavior

Righway Research Record No. 486, papers presented at the Pifty-Second Annual Heeting of the Highway Research Board, 66 p.

1973 REYWORDS: TRAVEL; BEHAVIOR; URBAN TRANSPORTATION; DEHAND (ECONOMICS); INTERCITY TRANSPORTATION; MODELS; CHICAGO AVAILABILITY: \$2.20

<446> 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 Annual Reeting of the Highway Research Board, 120 p.

RETURNS: TRANSPORTATION; PORECASTING; PLANNING; URBAN TRANSPORTATION; RECREATION; HODELS; AUTOHORIES; OWNERS; REGIONAL ANALYSIS; AIR TRANSPORTATION; PASSENGER TRANSPORTATION; TRANSL; DEHAND (SCONONICS); SURVEYS; GRAPHS (CHARTS) AVAILABILITY: \$3.80

<447> C447)
Hational Academy of Sciences, Rational Research
Council, Highway Research Board
ADDRESS: 2101 Constitution Avenue EW, Washington,
DC 20418
TITLE: Highway and Urban Transportation in the
1970's and 1980's

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

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

National Academy of Sciences, National Research Council, Highway Research Board ADDRESS: 2101 Constitution Ave., NW, Washington, DC 20418 TITLE: Highway Capacity Hanual: 1965

RRB Special Report 87, 411 p. RRB Special Report 87, 411 p.
1976, September
REYNORDS: HIGHWAYS; DESIGN; TRAFFIC CONTROL;
TRAFFIC; VELOCITY; CAPACITY; PEAK-HOUR
DENAND; HIGHWAY TRANSPORTATION; RURAL AREAS;
URBAN AREAS; BUSES (VEHICLES); DELAYS; DAILY
VARIATIONS; TABLES (DATA); PHOTOGRAPHS;
OPTIRIZATIOF; GRAPHS (CHARTS); CONSTRUCTION
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
ex.00

Cauy>
Hational Academy of Sciences, National Research
Council, Highway Research Board, Advisory
Committee on Novement of Goods in Urban Areas
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418 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 KEYWORDS: URBAN TRANSPORTATION; PLANNING; CARGO TRANSPORTATION; TRUCKS; INTERCITY TRANSPORTATION; INTRACITY TRANSPORTATION; COSTS; GOVERNMENT POLICIES; FORECASTING; TRAFFIC; LABOR RELATIONS; TONNAGE; TABLES (DATA) AVAILABILITY: \$6.00

National Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NP, Washington, DC 20418 TITLE: New Approaches to Travel Porecasting Transportation Research Record 569, papers prepared for the 54th Annual Resting of the Transportation Research Board, 157 p.

RBTHORDS: TRAVEL; PORECASTING; COMPERENCES; TRAPPIC; PLANNING; BENAVIOR; AUTOMOBILES; OWNERS; GRBAN TRANSPORTATION; MODELS; SHOPPING: RECREATION; CONRUTING: INTERCITY TRANSPORTATION: DENAND (ECONOMICS): GRAPHS (CHAPTS) AVAILABILITY: \$6.00

Cests

Sational Academy of Sciences, Fational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NF, Washington,
CC 20418
TITLE: Proight Transportation Characteristics

francortation Research Record 591, 53 p. RETWORDS: CARGO TRANSPORTATION; PLANNING; DENAND (SCONONICS): UNBAN TRANSPORTATION: RAIL TRANSPORTATION: INTERNATIONAL TRADE: TRUCKS AVAILABILITY: \$2.60

Rational Academy of Sciences, Rational Research Council, Transportation Research Board ADDRESS: 2001 Constitution Ave. BV, Rashington, DC 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.

1973
RFTWORDS: AIR TRANSPORTATION; AIRPORTS;
ETVIRONGENTAL IMPACT: LAND USS; NOISE
POLLUTION; RATER POLLUTION; AIR POLLUTION;
SOLID WASTES; ECONOMICS; NEW YORK CITT;
SOCIAL IMPACT ASSESSMENT; DENAMD (ECONOMICS);
COSTS; GRAPHS (CHARTS); PLANNING; RODELS
AVAILABILITY; \$2.00

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

Transportation Research Record 534, papers presented at the 54th Annual Recting of the presented at the Sath Annual newship Transportation Research Board, 75 p. TRANSPORTATION; SURAVIOR; PORSCASTING; URBAN TRANSPORTATION; SOCIO-SCOUDERC PACTORS; MATERIATICAL HODELS; TABLES (DATA); GRAPHS (CHARTS); VALUES AVAILABILITY: \$3.20

Rational Academy of Sciences, National Research Council, Transportation Research Board 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 Reeting and 6
reports prepared for the 54th Annual Reeting
of the Transportation Research Board, 45 p.

RETWORDS: BICICLES: TRABSPORTATION: LEGISLATION; PLABILED; DESIGN; DEFRICATION; DESIGNATE TRANSPORTATION; SEPRET; SIXEWAYS; TABLES (DATA); SINULATION; MODELS

Fational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NW, 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; TRAVEL; TRANSPORTATION; URBAN TRANSPORTATION; LOS ANGELES; REGIOVAL ANALYSIS; RODELS; SAIGON (VIETNAM); PUBLIC TRANSPORTATION; GRAPHS (CHARTS); TABLES (DATA) AVAILABILITY \$2.60

<456> (439)

National Academy of Sciences, National Research

Council, Transportation Research Board

ADDRESS: 2101 Constitution Ave. NY, Washington,

DC 20818

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;
INLAND WATERWAYS; CARGO TRANSPORTATION;
TABLES (DATA); GRAPHS (CHARTS); COMMODITIES;
PORECASTING; RAILROADS; WISCOWSIN; STATE
GOVERNMENT; COMPOTERIZED SIMULATION; RAILROAD
CARS; PLAWWING
AVAILABILITY: Transportation Research Board
\$2,20; WIIS 1976

Rational Academy of Sciences, Mational Research Council, Transportation Research Sourd ADDRESS: 2101 Constitution Avenue NM, 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 0-309-02355-6, Nt p.

RETHORDS: CARGO TRANSPORTATION; INTERCITY
TRANSPORTATION; RAIL TRANSPORTATION; HIGHTAT
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

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

1974
KEYHORDS: TRAYEL; DENAMD (RCONOMICS);
PORRCASTING; AIR TRAMSPORTATION; URBAN
TRAMSPORTATION; PLANNING; BERAVIOR;
TRAMSPORTATION; PASSENGER TRAMSPORTATION;
HOBELS; INTERCITY TRAMSPORTATIOR
AVAILABILITY; \$4, 40

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

<459>
<459> COST.
FITTE: Social, Economic, and Environmental
Implications in Transportation Planning

Transportation Research Record 583, papers presented for the 58th Annual Beeting of the Transportation Research Board, 95 p.

1976
KETWORDS: SOCIAL IMPACT; ECONOMIC IMPACT;
SOCIO-SCORMIC PACTORS: ENVIRONMENTAL IMPACT;
TRANSPORTATION: PLANNING; GOVERNMENT
POLICIES: TRAVEL; BERAVIOR; HASSACHUSETTS;
PWVIRONMENTAL IMPACT STATEMENTS; ECONOMICS;
AUTOMOBILES; OWNERSHIP; HORTH CAROLINA; URBAN
AR SAS; LOCAL GOVERNMENT; STATE AWALYSIS
AVAILABILITY: \$4,00

<460> Mational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue NV, Washington, DC 20418 TITLE: Transit Planning

Transportation Research Record 559, papers prepared for the 54th Annual Resting of the Transportation Research Board, 132 p.

RETWORDS: PLANNING: TAXICABS; RAPID TRANSIT SYSTEMS; TRANSPORTATION SYSTEMS; PASSENGER TRANSPORTATION; BUSES (VEHICLES); COMBUTING; URBAR TRANSPORTATION; COMPARATIVE EVALUATIONS: BEHAVIOR; COSTS; TRANSPORTATION DISADVANTAGED; TABLES (DATA); GRAPHS (CHARTS); BUREAL AREAS; HOBILITY AVAILABILITY: \$10.00

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

1976
RETUCRDS: PUBLIC TRANSPORTATION; PLANNING; URBAN
TRANSPORTATION; STATE GOVERNHERT;
LEGISLATION; CONSUMERS; ATTITUDES; ATLANTA;
DIAL-A-RIDE; BUSES (VERICLES); LOCAL
GOVERNHERT; TABLES (DATA); GRAPHS (CHARTS);
CALIFORNIA; BAY AREA RAPID TRANSIT SYSTEM;
PARK-AND-RIDE; TRANSPORTATION DISADVANTAGED;
INDIANA; STATE ANALYSIS
AVAILABILITY: 80.00

<462> Wational 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);
PUBLIC TRANSPORTATION: RIGHT-OP-WAY; RAPIO
TRANSIT SYSTEMS; CAPACITY; PLANNING; LOS
ANGELES; PASSENGER TRANSPORTATION; LOCAL
GOVERNMENT; URBAN TRANSPORTATION; HIGHWAYS;
TRAPPIC CONTROL
RVAILABILITY: \$2.60

<463> Bational Academy of Sciences, Fational Research Council, Transportation Research Foard ADDRSSS: 2101 Constitution Avenue NW, Washington, DC 20418 TITLE: Rail Transit Development

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

TRANSPORTATION; PUBLIC TRANSPORTATION; BAY AREA RAPID TRANSPORTATION; BAY AREA RAPID TRANSPORTATION SISTERS; RAPID TRANSIT SYSTER; ENERGY TRANSIT SYSTERS; RAPID TRANSIT SYSTERS; ECONOMICS; TABLES (DATA); GRAPPS (CHAPTS); BUROPB; REGIONAL ANALYSIS AVAILABILITY: \$2.60

<464>
Hational Academy of Sciences, Bational Research Council, Transportation Research Soard ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Energy Effects, Efficiencies, and Prospects for Various Hodes of Transportation

National Cooperative Highway Research Program Synthesis of Highway Practice 43, 63 p.

1977
SPONSOR: American Association of State Highway and Transportation Officials: U.S. Dept. of Transportation, Federal Highway Administration REYSORDS: BEBERGY CONSUMPTION; PETICENCY; FORECASTING; TRANSPORTATION; PLANSING; COMPARATIVE EVALUATIONS; PASSENGER TRANSPORTATION; CARGO TRANSPORTATION; EMERGY COMSERVATION; AUTOHOBILES; BUSES (VEHICLES); GRAPHS (CHARTS); TABLES (DATA); RAIL TRANSPORTATION; BICYCLES; WATER TRANSPORTATION; HIGHWAY TRANSPORTATION; PIPELIMES; SLURRY PIPELIMES
AFAILABILITY; 48,00

<465> Wational Academy of Sciences, National Research Council, Transportation Research Board, Coamission 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: PLANWING; TRANSPORTATION; RESEARCH; US
REDA; EMERGY DEMANO; EMERGY SUPPLIES; EMERGY
RESOURCES; FORECASTING; EMERGY CONSERVATION;
DEMAND (ECONOMIC PACTORS
SOCIO-ECONOMIC PACTORS
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. NCP/R1011-01, v.p. 1978, January

<466> CORT.
SPONSOR: U.S. Dept. of Emergy, Division of Transportation Emergy Conservation
RETWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERRD VEHICLES; EQUIPHENT;
TESTING: TABLES (DATA); BATTERIES; SURVEYS;
PERFORMANCE; ELECTRIC VERICLE RANGE; EMERGY
COMSUMPTIOM; RELIABILITY
AVAILABILITY: MTIS

<a67>
Wational Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH
TITLE: Twelve State-of-the-Art Individual
Electric and Hybrid Vehicle Test Reports.
Volume I

Report Fo. HCP/H1011-03/1, v.p.
1978, July
SPOWSOR: V.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: RLECTRIC VEHICLES; H.BBID
ELECTRIC-POWEREN VEHICLES; H.BBID
CTCLE; EMERGY COMSUMPTION; PERFORMANCE;
DESIGN; BATTERIES; TABLES (DATA); GRAPHS
(CHARTS); HAMUPACTURERS
AVAILABILITY: WIIS

<466>
Wational Association State Directors of Pupil
Transportation Services
TITLE: 1975-76 Statistics on Pupil Transportation

3 p.
METMORDS: STATE AWALYSIS; EXPENDITURES; BUSES
(VERICLES); STATISTICS; OWNERSHIP; SCHOOLS;
CHILDREN

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

204 p.
1975, August 6
SPOPEJOR: U.S. Dept. of Interior
REYWORDS: BHERGY CONSERVATION: INDUSTRIAL SECTOR;
TPANSPORTATION: COMMERCIAL SECTOR;
RESIDENTIAL SECTOR: BLECTRIC UTILITIES;
TABLES (CATA); FOR ECASTING; HEAT PURPS;
APPLIANCES; SOLAP ENERGY; AUTONOBILES; FUEL
CONSUMPTION; EMISSIONS; DESIGN; REGULATIONS;
TECHNOLOGY

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

Rational Petroleum News, 70 (6A), 209 p.
1978, Mid-June
RYMODDS: AIR TRANSPORTATION; STATE ANALYSIS;
FINANCIAL DATA: TIRES; BATTERIES;
DIRECTORIES; PUEL OIL: MILEAGE; GAS STATIONS;
AVIATION FUELS; AUTOHORILES; MARRFTING;
TRUCKS; AUTOHORILE BRIVERS; CAPITAL COSTS;
EMERGI DEMAND; AIR POLLOTION; ADVERTISING;
GASOLINE; PETROLEUR; UNLEADED AUTONOTIVE FUELS

<471>
Helson, P.A.; Chilenskas, A.A.; Steumenberg, R.K.
Argonne Hational Laboratory, Chemical Engineering
Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: The Weed for Development of High-Energy
Batteries for Electric Automobiles

Report No. AVL-8075, 24 p.
1974, November
SPONSOR: U.S. Atomic Energy Commission
KEYNORDS: BATTERIES; ATR POLLUTION; PORECASTING;
LITHIUN-SULPUR BATTERIES; ELECTRIC VEHICLES;
ECONOMIC ANALYSIS; COMPARATIVE EVALUATIONS
AVAILABLITY: NYIS

<472>
Revew, A.J.
Rew Tork State Dept. of Transportation, Planning
Division
ADDRESS: State Campus, Albany, NY 12232
TITLE: Public Opinion Survey on Energy and
Transportation

Preliminary Research Report No. 135, 47 p.
1977, December
SPONSOR: U.S. Dept. of Transportation
KEYWORDS: SURVEYS; NEW YORK; EMERGY CONSERVATION;
TRANSPORTATION; REGIONAL ANALYSIS; AGE
GROUPS; SEX; EMERGY POLICY; PUBLIC OPINION;
HASS TRANSPORTATION; INCENTIVES;
TRANSPORTATION DISADVANTAGED; QUESTIONNAIRES;
GASOLINE; FUEL CONSUMPTION

<473>
Niccoletti, W.
Pederal 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
KEYMORDS: SURVEYS; RESIDENTIAL SECTOR; ENERGY
CONSUMPTION; COSTS; ELECTRIC POWER DEMAND;
HATURAL GAS; FUEL OIL; SPACE HEATING; AIR
CONDITIONING; WATER HEATERS; LIFE STILE;
AUTOMOBILES; APPLIANCES; TABLES (DATA);
REGIONAL ANALYSIS; COSTS; POPULATION
(STATISTICS); OWNERS; ATTITUDES; ENERGY
CONSERVATION
AVAILABILITY: NTIS

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

Chemical Engineering Progress, 70(10), 36-48
1974, October
RETWORDS: EMERGY DEMAND; PETROLEUM; EMERGY
SUPPLIES; IMPORTS; EMERGY RESOURCES;
PRODUCTION; TABLES (DATA); GROWTH;
IMTERNATIONAL TRADE; POSSIL FUELS; SYNTHETIC
FUELS; COAL; GOVERNMENT POLICIES;
FORECASTING; EMERGY CONSUMPTION

(875) (475) Bicolaidis, G.C.; Hurawski, C.A. General Rotors Corp., Research Laboratories ADDRESS: Warren, HI 48090 TITLE: Analysis of Preference for Hixed-Hode

Reprint from Traffic Quarterly, July 1977, 872-896; also available as Research Publication No. GHR-2255 Publication so. un. --1977, July
RETWORDS: ATTITUDES; URBAN TRAFSPORTATION;
COMMUTING; MODELS; TABLES (DATA); GRAPHS
(CHARTS): TRAFEL TIME; TRAFEL; COSTS;
HIXED-HODE TRAFSIT
AVAILABILITY: General Hotors Corp., Research
Laboratories, Warren HI 48090 for GNR-2255

<476> Sero, L.R. (ed.)
Warketing Handbooks Inc.
ADDRESS: 31 Wallacks Lane, Stamford,
TITLE: Travel Harket rearbook: 1976

Annual publication, 128 p. 1976 TYPOODS: TRAVEL; MARKET; AUTOHOBILES; INTERNATIONAL AFALYSIS; TOURISM; ADVERTISING; PORECASTING; TRAWSPORTATION; TAXES; AIR TRAWSPORTATION; RAIL TRAWSPORTATION; PASSENGER TRANSPORTATION; BUSES (VEHICLES); SERVICES; TABLES (DATA) AVAILABILITY: \$26.00

Torsan, 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, February 27 - Harch 3, 1978, 4 p.

REYWORDS: BLECTRIC VEHICLES: HYBRID ELECTRIC-POWERED VEHICLES; PLIMHEELS; AUTOMOTIVE PLEETS; EMERGY COMSERVATION; UTILIZATION: POSTAL SERVICE
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendele, PA
15096 \$2.50

North Atlantic Treaty Organization, Committee on the Challenges of Hodern Society TITE: Proceedings of the Fourth International Sysposius 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 REYWORDS: CONFERENCES; PROPULSION; AUTOHOBILES; GAS TURBINES; AUTOHOTIVE FUELS; FUELS; DIESEL ENGINES; STIRLING ENGINES; RANKING CYCLE ENGINES; ELECTRIC VERICLES; RYBRID ELECTRIC-POWERED VEHICLES; STRATIFIED CHARGE ENGINES; SPARK IGHITION ENGINES; AUTOHOTIVE ENISSIONS; POWER TRAIN SYSTEMS

<479> Northwestern University, Transportation Center Library
ADDRESS: Evanston, IL 11973
TITLE: Bibliography for Transportation Energy
Conservation

Report No. ANL-76-XX-7, 64 p.
1976, May
SPOISOR: Argonne National Laboratory
RETWORDS: BIBLIOGRAPHIES: TRANSPORTATION;
AUTOMOBILES: MASS TRANSPORTATION; AIRCRAFT;
TRUCKS: RAILROADS: BARGES: SHIPS: HABINE
TRANSPORTATION; RAIL TRANSPORTATION; AIR
TRANSPORTATION; PIPELINE TRANSPORTATION;
EMERGY CONSERVATION
AVAILABILITY: NOTS

<480> C480)
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

SPONSOR: U.S. Dept. of Transportation, Pederal 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
REYWORDS: NEW YORK CITY: TRANSPORTATION SYSTEMS;
PASSENGER TRANSPORTATION; COSTS; MOBILITY;
SURVEYS; TABLES (DATA); ATTITUDES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

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

Report No. NASA CR-2644, 81 p. 1976, June SPONSOR: National Aeronautics and Space Administration, Langley Research Center
REYWORDS: HAWDBOOKS; AIRPORTS; DELAYS; COMPUTER
PROGRAMS; GRAPHS (CHARTS); OPERATION;
CAPACITY; PEAK-HOUR DEHAND; TRAFFIC CONTROL
AVAILABILITY: MTIS

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

Report presented at the 54th Annual Reeting of the Transportation Research Board, published in "Transportation Energy Conservation," Transportation Research Record 561, 57-67

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

to division to the opening

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

Oil and Gas Journel, 75(31), 51-54
1977, August 1
RETWORDS: COAL; COAL GASIFICATION; ALTERNATE
FUELS; LOW BTU GAS; U-GAS PROCESS; DIAGRAMS;
FUEL OIL; WATURAL GAS; TABLES (DATA); ASHES;
PILOT PLANTS: DEMONSTRATIOF PLANTS

<483> Olsen, P.J.; Westley, G.W. Oak Ridge Mational Laboratory, Energy Division, Regional and Orban Studies Section: Oak Ridge Mational Laboratory, Computer Sciences Division ADDRESS: Oak Ridge, TM 37830 TITLE: Synthetic Measures of Truck Operating Times Metween the Hetropolitan Centers of BEA Economic Areas: 1950, 1960, and 1970, with Projections for 1980

Peport No. ORNI-WSF-EP-78, 76 p.
1975, January
SPONSOP: Rational Science Foundation, BANN Program
REYBORDS: TRUCKS; URBAN AREAS; REGIONAL ANALYSIS;
TRANSPOPTATION; DISTANCE; VELOCITI; HIGHWAYS;
TABLES (DATA); HISTORY: FORECASTING;
INTERSTATE TRANSPORTATION; TRAVEL TIME;
HARKET: GROWTH

<\\\00e484>
Opinion \(^{\text{Pessarch Corp.}}\)
ADDPSS: North Harrison Street, Princeton, WJ
08540
TITLE: Driving and Energy Conservation.
Highlight Report. \(^{\text{Volume XII}}\)

Report No. PP-261162, FEA/D-76/983, 28 p.
1976, March
SPONSOR: Federal Energy Administration, Office of
Energy Conservation and Environment
*RYWORDS: EMERGY CONSERVATION: COMMUTING;
STPYETS: BEHAVIOR; AUTOMOBILE DELYERS;
HRGIONAL ANALYSIS: ATTITUDES: BREEY
CONSUMPTION: CARPOOLING: GASOLINE: FUEL
ECONOMY
AVAILABILITY: HTIS

<a85> Ossenbruggen, P.J.; Fishman, H.M. New Hampshire, University of, College of Engineering and Physical Sciences; Penney (J.C.) Co. Inc., Real Estate Dept. ADDRESS: UNH, Durham, NH; JCPC, New York, NY TITLE: Impact of Transit Line Extension on Residential Land Use

Paper published in Transportation Research Record 627, 10-13
1977
SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration
RETWORDS: LAND USE; PESIDENTIAL SECTOR; RAPID TRANSIT SYSTEMS; TRANSPORTATION; REGULATIONS; LAND DEVELOPMENT
AVAILABILITY: Wational Academy of Sciences, Transportation Research Board, 2101
Constitution Ave. RW, Washington, DC 20418
\$2.70 for Transportation Research Record 627

<a86>
Patel, J.G.
Institute of Gas Technology
AppRess: Chicago, IL
FITLP: Clear Fuel from Coal Im Goal of U-Gas

1

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Paul, P.W.; Regreany, H.J.
Carnegie-Hellon University, Rechanical
Engineering Dept.
ADDRESS: Pittsburgh, PA
fITLE: Applied Studies in Advanced Poiler
Technology for Rankine Cycle Power Systems

Report No. COO/2633-3, v.p.
1976, Pebruary
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: BOILERS; RANKINE CYCLE POWER SYSTEMS;
DESIGN; COMPARATIVE EVALUATIONS; TESTING;
VAPOR GENERATORS; MODELS; SIMULATION; DIAGRAMS
AVAILABILITY: NTIS

<486>
Pefley, R.K.; Browning, L.H.; HcCormack, H.C.; Hornberger, H.L.; Likos, W.E.; Pullman, B. Santa Clara University, Dept. of Mechanical Engineering
ADDRESS: Santa Clara, CA 95053
IIILE: Characterization and Research Investigation of Hethanol and Hethyl 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
RESTWORDS: ALTERNATE FORLS; NETHANOI; COMPARATIVE
EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL
ECONOMY; GASOLINE; PERFORMANCE; COMPUTENIZED
SIMULATION; GRAPHS (CHARTS); TABLES (DATA);
TESTING
AVAILABILITY; HTIS

<489>
Penner, P.S.
Illinois, University of, Center for Advanced
Computation
ADDRESS: Urbana, IL 61801
TITLE: The Dollar, Energy and Labor Intensity of
an Electric Commuter Reilroad

CAC Technical Henorandum No. 24, 13 p.
1978, September
KEYBORDS: LABOR INTENSITY; TRANSPORTATION
SYSTEMS; RAIL TRANSPORTATION; EMERGY
COMSUMPTION; FINANCIAL DARA; LOAD PACTOR;
VENICLE HILES TRAVELED; PASSENGER
TRANSPORTATION; INTENSITATE TRANSPORTATION;
ELECTRIC RAIL SYSTEMS

<a90>
Permut, R.: Yuchic, 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

C490>
C490> CC4T.
627, 13-17 (Discussion p. 16)
1977
SPONSOR: Mational Academy of Sciences,
Transportation Research Roard
KETWORDS: TRANSIT STATIONS; RAPID TRANSIT
SYSTEMS: SITE SELECTION; CHICAGO: COMPARATIVE
EVALUATIONS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 627

<491>
Petracek, S.J.
Stanford Research Institute
ADDRESS: Menlo Park, CA 94025
TITLE: Energy Study of Railroad Freight
 Transportation. Volume 3: Regulation and
 Tariff

<492>
Petrocelli, A.W.; Kennedy, J.H.
Yardney Electric Corp.
ADDRESS: Pawcatuck, CT
TITLE: "he Nickel-Zinc Battery: A Viable
Alternative for Vehicle Powering

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, 28 p.

1976, September REYWOODS: NICKEL-ZINC BATTERIES; ELECTRIC VEHICLES; RESEARCH; PERFORMANCE; FODELS; COMPARATIVE EVALUATIONS; LEAD-ACID BATTERIES;

GRAPHS (CHARTS)
AVAILABITITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<493>
Petroleum Publishing Co.
ADDRESS: 1021 S. Sheridan Road, Tulsa, OK 74101
TITLE: Petroleum/2000

Oil and Gas Journal, 75(35), 75th Anniversary Issue, 538 p.
1977, August
REYWORDS: PETROLEUM: FORECASTING: EXPLORATION: PRODUCTION: PIPELINES: NATURAL GAS LIQUIDS: RETINING: PETROLEUM REFINING: PETROCHEMICALS: PROCESSING: PETROLEUM INDUSTRY: ALTERNATE FUELS: GRAPHS (CHARTS): HISTORY: LIQUEPIED MATURAL GAS: INTERNATIONAL RELATIONS AVAILABILITY: \$6.00

.

Period Hay 1, 1977 - November 30, 1977

Report No. CCO/4248-1, 23 p.
1977, Howesber
SPONSOP: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETYORDS: FUEL ECONOMY: GASOLINE; HYDROGEM;
METHANOL: FUEL INJECTION SYSTEMS; STIRLING
ENGIVES: GAS ENGINES: AUTOMOBILES;
COMPARATIVE EVALUATIONS: DRIVING CYCLE;
HIGHWAY TRANSPORTATION; EMPRGY STORAGE;
VEHICLE TRIPS; TESTING; FUEL CONSUMPTION;
WEHICLE TILES TRAVELED; PHOTOGRAPHS;
AUTOMOBILE OCCUPANCY
AVAILABILITY: NITIS

<495>
Pigaan, J.G.; Agent, K.R.; Mayes, J.G.; Zegeer,
C.V.
Rentucky Dept. of Transportation, Bureau of
 Highways
TITLE: Optimal Highway Safety Improvement
 Investments by Dynamic Programming

Report presented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 585, 49-59 1976 REYWORDS: HIGHWAYS; SAFETY; PLANWING; HANAGEHENT; INVESTHENTS; OPTIMIZATION AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW., Washington, DC 20418 \$3.60 for Transportation Research Record 585

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KEYNORDS: CONSTRUCTION; EQUIPMENT; COMPRESSORS; MANUPACTURERS; UTILITIES; ENERGY TRANSPORT; SERVICES; ENGINERING; 1984; INTERNATIONAL ORGAMIZATIONS; UNDERGROUND PACILITIES; WATEP PIPELINES; PIPELINES; EXCAVATION

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

136 p.
1977, Spring
KETWORDS: CAMPERS; RECREATION VEHICLES; HOTOR
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
KETHORDS: SPARK IGNITION EMGINES; VARIABLE
DISPLACEMENT ENGINES; EXHAUST RECIRCULATION

<498> COFT. SYSTEMS: AUTONOTIVE EMISSIONS: FUEL ECONOMY: MEASUREMENT: TESTING: DRIVING CYCLE: UPBAN TRANSPORTATION: MECHANICS: GRAPHS (CHARTS): DIAGPAMS: HIDROCARBONS: NITROGEN OXIDES AVAILABILITY: GPO, Stock No. 061-000-00108-5

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Powel, S.F., III; Rosenberg, M.
".S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Wendall Square, Cambridge, HA 02142
TITLE: The Advisability of Regulating Electric
Vehicles for Energy Conservation

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 KEYWORDS: ELECTRIC VEHICLES; BATTERIES; PERFORMANCE; LIFE-CYCLE COST; EMBRGY COMSERVATION; GOVERNMENT POLICIES; FUEL CONSUMPTION; EFFICIENCY; TABLES (DATA); GRAPES (CHARTS); COMPARATIVE EVALUATIONS; ECOMOMICS; COSTS; VANS; REGULATIONS; INTERNAL COMBUSTION ENGINES; EMERGY CONSUMPTION; MARKET AVAILABILITY; NITS

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Powell, J.D.; Hubbard, M.
Stanford University, Dept. of Aeronautics and
Astronautics
ADDRESS: Stanford, CA 94305
TITLE: Closed-Loop Control of Internal Combustion
Engine Tahaust Taissions

Report No. PB-239850, 63 p.
1974, February
SPORSOF: U.S. Dept. of Transportation, Office of
Systems Engineering, University Research
Program
RETWORDS: AUTOHOTIVE PHISSIONS; INTERNAL
COMPUSTION ENGINES; PUBL-AIR RATIO; CONTROL
EQUIPMENT; DESIGN; COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

C501>
Pozdena, R.J.
Stanford Research Institute
ADDRESS: 333 Reversivood Avenue, Menlo Park, CA
9025

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

Report Po. PAA-AVP-76-18, Forecasts of Worldwide
Aviation Activity, 132 p.

1976, November

SPONSOF U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy
RETWORDS: FORECASTING; AIRCRAFT; ECONOMETRIC
MODELS: REGIONAL ANALYSIS; OPERATING COSTS;
INTERNATIONAL TRAVEL; PASSENGER
TRAFSPONTATION; TABLES (DATA); GROWTH; DATA
BASES; STATISTICS; CARGO TRANSPORTATION;
HISTORY; HODELS
AVAILABILITY: NTIS

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

TITLE: The Potential for Transit as an Energy
Saving Option

1975, NOVEMBER
SPONSOR: FEDERAL ENERGY Administration
KRYNORDS: PUBLIC TRANSPORTATIOF; URBAN
TRANSPORTATION; EMERGY CONSUMPTION; EMERGY
CONSERVATION; VEHICLE HILES TRAVELED;
AUTOMOBILES; REGIONAL ANALYSIS; PASSENGER
TRANSPORTATION; GRAPHS (CHARTS); TABLES
(DATA); HODELS; EFFICIENCY; BALTINORE
(HARTILAND); CHICAGC; SAN DIEGO; ALBUQUERQUE;
SOCIO-ECONOMIC FACTORS; HASS TRANSPORTATION;
GOVERNMENT POLICIES; BUSES (VEHICLES); RAIL
TRANSPORTATION; STATE ANALYSIS

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1976, December
REYWORDS: REGULATIONS; LEGISLATION; GOVERNMENT
POLICIES; HISTORY; PROPARE; NATURAL GAS; FUEL
OIL; PETROLEUH INDUSTRY; IMPORTS;
ALLOCATIONS; ENERGY SUPPLIES; PETROLEUH;
PRICES; COSTS; ENERGY SHORTAGES; REFINING;
LEGAL ASPECTS; US FEA; CONSUMERS; TABLES
(DATA)

<504> Public Technology Inc.; Urban Consortium for Technology Initiatives, Transportation Task Force ADDRESS: 1140 Connecticut Avenue NF, Fashington, DC 20036 TITLE: Transportation Needs Summary 32 p. 1976, September

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SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration; U.S. Dept. of
Transportation, Federal Highway Administration
KEYWORDS: TRANSPORTATION; RESEARCH; ASPHALTS;
TRANSPORTATION SYSTEMS; PARATRANSIT;
HIGHWAYS; BUSES (VEHICLES); PLANNING; MASS
TRANSPORTATION; AIR TRANSPORTATION; TRAPPIC
CONTROL

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Pucher, J.; Rothenberg, J.
Massachusetts Institute of Technology, Dept. of
Urban Studies and Planning
ADDRESS: Cambridge, MA 02139
TITLE: Pricing in Urban Transportation: A Survey
of Papirical Evidence on the Elasticity of
Travel Demand

Report Ho. MIT 76-014, 133 p.
1976, July
REYMORDS: URBAN TRANSPORTATION; PRICES; RATES
(COSTS): MODELS; ELASTICITY (ECOMOMICS);
GASOLIME: DEMAND (ECOMOMICS); ENERGY
CONSPRYATION: INCOME: TAPLES (DATA); EMERGY

CONSTRUCTION: INCOME; IMPAGES (URLE), BURNEY, BURNEY, BURNEY, BURNEY, BURNEY, BURNEY, Cambridge, HA 02139 \$6.00

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Pucher, J.R.
Rassachusetts Institute of .echnology, Dept. of
Wrban Studies and Planning
ADDRESS: Cambridge, NA 02139
TITLE: Projections of 1980 Freight Demands for
Selected Hidwestern Bailroads

Report Ro. DOT-TST-76T-00, 130 p.
1976, September
SPOMSOR: U.S. Dept. of Transportation, Office of University Research
RETWORDS: FORECASTING; BAIL TRANSPORTATION;
RAILROADS; HIDDESTERN STATES; CARGO
TRANSPORTATION; COSTS; TABLES (DATA); HAPS;
COHMODITIES; IMPUT-OUTPUT ANALYSIS; REGIONAL
ANALYSIS; HISTORY
AVAILABILITY: HTIS

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

Report No. HCP/H4250-01 (Previously issued as
 COO-8250-1), 327 p.
1978, January
SPONSOR: U.S. Dept. of Energy Observation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
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 ELECTRIC POWERED VEHICLES; COMMERCIALIZATION;
 ENERGY DEMAND; COSTS; PERFORMANCE; TABLES
 (DATA): ELECTRIC VEHICLE RANGE:
 TRANSPORTATION; PETROLEUN; EMERGY
 COFSERVATION; TECHNOLOGY ASSESSMENT;
 INSTITUTIONAL FACTORS; SAFETY
AVAILABILITY; NTIS

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

RPA Bulletin 126, 90 p.
1977, June
SPONSOR: New York State Power Authority
TETWORDS: NEW YORK CITY; WAIL TRANSPORTATION;
ELECTRIC POWER DEMAND; ENPLOYMENT; COGNUTERS;
POBLIC TRANSPORTATION; URBAN TRANSPORTATION;
AUTOHOBILES; REGIONAL ANALYSIS; PEAK-ROUR
DEMAND; ELECTRIC VEHICLES; GRAPHS (CHARTS);
EAPID TRANSIT SYSTEMS; TABLES (DATA);
PLANNING; EQUIPHENT; SUBWAYS; AIR
CONDITIONING; REGEMERATIVE BRAKING; HASS
TRANSPORTATION

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Rabe, P.T.
Environmental Impact Center Inc.
ADDRESS: 55 Chapel Street, Newton, NA 02158
TITLE: Uncertainties in Estimates of Pleet
Average Fuel Economy: A Statistical

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

REYWORDS: AUTOHOTIVE FLEETS; PUEL ECONOMI; PUEL CONSURPTION; TABLES (DATA); STRATIFICATION; ESTIMATES; STATISTICAL AWALYSIS; TESTING AVAILABILITY: WIIS

Report No. DOT-TSC-OST-77-25, 56 p.
1977, August
SPOMSOR: 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
REYHORDS: VEHICLE HILES TRAVELED; FORECASTING;
TRAVEL; AUTOROBILES; HODELS; RESEARCH; DATA
ACQUISITION; ESTIMATES; COSTS
AVAILABILITY: WITS

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Rabe, F.T.
Bavironmental Impact Center Inc.
ADDRESS: 55 Chapel Street, Newton, MA 02158
TITLE: Dynamic Hodels of the U.S. Automobile Fleet
Report No. DOT-TSC-0ST-77-26, 46 p.
1977 Apparet

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: **ODELS; SALES; COMPUTERIZED SIMULATION;
GASOLINE; PRICES; FORECASTING; DEMAND
(ECOMONICS); TRANSPORTATION; AUTOMOBILES;
PRICES; SIZE; OWNERS
AVAILABILITY: WITS

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Raschbichler, H.G.
Scitran
ADDRESS: Box 5456, Santa Barbara, CA 93108
TITLE: Technical and Economical Considerations of
the Use of Self-Supporting Plastic Sandwich
Constructions in Electrical Vehicles

A Committee of the Comm

Report No. N76-14205, NASA-TT-F-16824, 15 p.;
Translation from Elektrotechnische
Zeitschrift Ausg. A, 94(11), 679-682
1975, December
SPONSOR: National Aeronautics and Space
Administration
KEYNORDS: ELECTRIC VEHICLES: PLASTICS: ECONOMIC
ANALYSIS: PRODUCTION: DESIGN
AVAILABILITY: NTIS

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

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

<513> COFT. TRANSPORTATION; PUBLIC TRANSPORTATION; BAIL TRANSPORTATION; URBAN TRANSPORTATION; AIR TRANSPORTATION; PIPTLINE TRANSPORTATION; PIPTLINE TRANSPORTATION; RYPRYDITTORES

AVAILABILITY: The Conservation Foundation, 1717
Hassachusetts Avenue, N.W., Washington, DC
20036

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Report No. GHR-2621, 23 p.
1978, January 10
KEYWORDS: TRANSPORTATION; HODELS; BERAVIOR;
DECISIONS; ATTITUDES; SHOPPING TRIPS; URBAN
TRANSPORTATION; VEHICLES

Attributes

TITLE: RV Financial Facts

<515> Recreation Vehicle Industry Association ADDPESS: Box 204, 14650 Lee Rd., Chantilly, VA 22021

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

<516> Recreation Vehicle Industry Association ADDRESS: P.O. Box 204, 14650 Lee Road, Chantilly, VA 22021 VA 22021 TITLE: Pecreation Vehicle Figures, Pacts and 1961 - 1981

Paper presented at seminar held at the Essex House Hotel, New York, NY, on March 31, 1977, 11 p. 1077 SPONSOR: Mitchell, Hutchins Inc.
RFIWORDS: PECREATION VEHICLES; FORECASTING;
TRAILERS; CAMPERS; MOTOR HOMES; TABLES
(DATA); SALES

Recreation Vehicle Industry Association,
Rarketing 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 VEHICLES; INDUSTRIES; PRICES; PRODUCTION; SALES; HARKET; TABLES (DATA); GRAPHS (CHAPTS); ERERGT DERAND; HOTOR HOMES; TRAILERS; CAMPERS; TRUCKS; REGIONAL ANALYSIS

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Reed, H.n.; Roos, H.; Wolfe, H.; DiGregorio, R. U.S. Dept. of Transportation, Transportation Systems Center
Systems Center
ADDRESS: Rendall Square, Cambridge, HA (
TITLE: A Study of the Costs and Benefits
Associated with AVH

Report No. PB-266293, UHTR-HA-06-0041-77-1, DOT-TSC-UHTR-77-5, 256 p. 1977, February DOT-TSC-UHTA-77-5, 256 p.
1977, February
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration, Office of
Technology Development and Deployment
KEYWORDS: TRANSPORTATION; TECHNOLOGY; COSTS;
HAINTENNICE; OPERATING COSTS; BUSES
(VEHICLES); TAXICASS; BENEFIT COST AWALYSIS;
TABLES (DATA); GRAPHS (CHARTS); ENERGY
CONSERVATION; MONITORING; AUTOMATIC VEHICLE
KONITORING; URBAN TRANSPORTATION: AUTOMOTIVE MONITORING: URBAN TRANSPORTATION: AUTOMOTIVE AVAILABILITY: MTTS

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

Regional Plan News No. 99, 24 p.
1976, August
SPONSOR: Tri-State Regional Planning Commission;
U.S. Dept. of Transportation, Urban Hass
Transportation Administration; Ford Transportation Administration; Ford Foundation; Rockefeller Foundation REYWORDS: URBAN AREAS; PUBLIC TRANSPORTATION; COSTS; BUSES (VEHICLES); RAPID TRANSIT SYSTEMS; COMMUTERS; COMMUNITY DEVELOPMENT; LAND USE: PHOTOGRAPHS: GRAPHS (CHARTS)

<520> Requeiro, J.F.
John Deere Product Engineering Center
ADDRESS: Holine, IL 61265
TITLE: Engine Developeents and Agricultural
Equipment Fuel Consumption Trends

Paper No. 760853, published in SAE SP-411, 1-10 1976, August SPONSOR: Society of Automotive Engineers Inc., Milwaukee Section
KETWORDS: FARM EQUIPMENT; TRACTORS; AGRICULTURE;
DIESEL ENGINES; FUEL CONSUMPTION; DESIGN; PRODUCTION; GRAPHS (CHARTS)

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

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

Paper published in Transportation Research Record 587, 24-29 1976 1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
REFRORDS: TRAVEL TIME: ECONOMIC AFFALYSIS;
CONSUMERS: BEHAVIOR: RESEARCH
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. ST, Washington, DC 20418
\$2.40 for Transportation Research Record 587

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<522> <522> CO22>
Reichman, S.; Stopher, P.R.
Rebrew University; Cornell University
ADDRESS: RU, Jerusales, Israel; CU, Ithaca, HY
TITLE: Applications of Value of Travel Time to
Travel Desard Estimation

Paper published in Transportation Research Record 587, 6-11 1976 SPONSO R: Mational Academy of Sciences,
Transportation Research Board
KEYWORDS: TRAVEL TIME; URBAN TRANSPORTATION;
HODELS; VEHICLE TRIPS; COSTS; INTERCITY TRANSPORTATION
AVAILABILITY: National Academy of Sciences,

Transportation Research Board, 2101
Constitution Avenue. NW, Washington, DC 20418
\$2.40 for Transportation Research Record 587

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

Paper presented at the 1977 Annual Heeting of the Transportation Pesearch Board, held in Washington, DC, January 1977 1977, January
REYWORDS: COSTS; PATES (COSTS); DEMAND
(ECONOMICS); 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;
ANTOROBILES; HAGRESION HYDRIDES; ALUBRINGH
HYDRIDES; DESIGN; STABILITY; CORPERATIVE
EVALUATIONS: TABLES (DATA); DIAGRAMS;
ALTERNATE FUELS
AVAILABILITY: NETS AVAILABILITY: MTIS

(575) Reister, D.B. Institute for Energy Analysis ADDRESS: Oak Ridge, TW 37830 TITLE: The Total Energy Cost of Freight Transport

Report No. ORAU/IEA(H) -77-7, v.p. Report No. ORAU/IEA(M)-77-7, v.p.
1977, Pebruary
SPONSOR: Energy Research and Development
Administration
REYNORDS: COSTS; ENERGY CONSUMPTION; CARGO
TRANSPORTATION; MET ENERGY; RAIL
TRANSPORTATION; WATER TRANSPORTATION; TRUCKS;
IMPERCITY TRANSPORTATION; ATT TRANSPORTATION;
INPUT-OUTPUT ANALYSIS; COMPARATIVE EVALUATIONS

<526> Reashaw, V.; Friedenberg, H.L.; Levine, B. U.S. Dept. of Commerce, Bureau of Economic Analysis ADDRESS: Washington, DC TITLE: Work-Force Higration Patterns, 1970-76

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

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Rice, P.L.

Oak Ridge National Laboratory, Energy Division, Regional and Urban Studies Section ADDRESS: Oak Ridge, TH 37830
TITLE: Energy Conditions in the South

Report No. ORNL/TH-5568, 338 p.
1976, December
SPONSOF: Energy Research and Development SPONSOF: Energy Research and Development Administration
KEYMORDS: EMERGY DEMAND; EMERGY SUPPLIES; EMERGY
RESOURCES; TABLES (DATA); MAPS; MATURAL GAS;
PETROLEUM; COAL; HYDROELECTRIC POWER; MUCLEAR
POWER; PETROLEUM PRODUCTS; ALABAMA; ARKAMSAS;
FLORIDA; GEORGIA; KENTUCKY; LOUISIAWA;
MISSISSIPPI; MORTH CAROLINA; OKLAMOMA; SOUTH
CAROLINA; TENNESSEE; TEXAS; VIRGINIA; WEST
VIRGINIA; SOUTHERN STATES; REGIONAL AWALYSIS;
STATE ANALYSIS

STATE ANALYSIS AVAILABILITY: NTIS

<528> <528> Rice, P.L. Oak Ridge Wational 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
KEYWORDS: SOUTHERN STATES; STATE ANALYSIS; EMERGY
SUPPLIES; NATURAL GAS; PETROLEUN; COAL;
EMERGY RESERVES; EMERGY CONSUMPTION; REGIONAL
ANALYSIS; HYDROELECTRIC POWER; RESIDENTIAL SECTOR; CONNERCIAL SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION; BLECTRIC UTILITIES; PRODUCTION; TABLES (DATA); EMERGY DEMAND; ELECTRIC POWER DEMAND AVAILABILITY: MTIS

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

Paper prepared for presentation at the Annual Heeting of the Transportation Research Board, 29 p. 1978, January RETWORDS: URBAN 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 Army-Navy Drive, Arlington, VA 22202
fITLE: DOD Energy R & D. Part II: Hilitary

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

Peport =0. AD/A 042272, IDA Paper P-1116, 108 p. 1977, Warch

1977, March
SPONSON: U.S. Dept. of Defense, Defense Advanced
Research Projects Agency; U.S. Dept. of
Defense, Office of the Director of Defense
Pesearch and Engineering
RETHODES: WILLTANY; FUELS; CONSUMPTION; EMERGY
HANAGEMENT; FORECASTING; PETROLEUM; SYNTHETIC
FUELS; AVIATION FUELS; TABLES (DATA); OIL
SHALE; HTDROCARBONS; 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
EUWORDS: COAL; TRANSPORTATION; COSTS; ECONOMICS;
TRUCKS; RALL TRANSPORTATION; SLURRIES;
BARGES; PIPELINE TRANSPORTATION; PNEUMATIC DANGES; FIRELINE TRANSPORTATION; PROUNTILE TRANSPORT; CONVEYORS; COMPARATIVE EVALUATIONS; HODELS; CAPITAL COSTS; OPERATING COSTS; TABLES (DATA); GRAPHS (CHARTS); WATERWAY TRANSPORTATION; REGIONAL ANALYSIS; E GINEERING; CARGO TRANSPORTATION AVAILABILITY: NTIS

<532> Rinde, J.A.; Chiao, T.T.; Stone, R.G. Lawrence Liversore Laboratory ADDRESS: University of California, Liversore, CA 94550 TITLE: Composite Fiber Flywheel for Energy Storage

Paper published in 8th National SAMPE (Society for the Advancement of Materials and Process Engineering) Technical Conference. Volume 8. Bicentennial of Materials, pp. 25-43; conference held October 12-14, 1976 in Seattle, Washington

1976. October SPONSOR: Energy Research and Development Administration

RETURNS: PLYMEBELS: EMERGY STORAGE: COMPOSITE MATERIALS: FIRERS: DESIGN: DEVELOPMENT: UTILIZATION: HIRRID ELECTRIC-POWERED VPHICLES: LAWRENCE LIVERNORE LABORATORY; PHYSICAL PROPERTIES: RESEARCH PROGRAMS: TABLES (DATA) : GRAPHS (CHARTS)

Ring, S.L.; Prewer, R.A.; Butler, D.L. Iowa State University, Civil Engineering and Engineering Research Institute
ADDRESS: Ames, IA
FITLE: Evaluation 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,

SPOUSOR: U.S. Dept. of Transportation, Office of University Research REYBORDS: RUBAL AREAS; BURAL TRANSPORTATION; RAIL TRANSPORTATION; ROOD; TRANSPORTATION; SOCIO-ECONOMIC FACTORS; RAILROADS; MAPS;

SOCIO-ECONONIC FACTORS: RAILROADS; HAPS; IOWA: ELECTRIC POWER GENERATION: AGRICULTURE; BEGIONAL ANALYSIS; LIFE STYLE; STATE GOVERNMENT; GOVERNMENT POLICIES AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. HW, Washington, DC 20418 \$5.00 for Transportation Research Record 561

Rishavy, E.A.; Hamilton, S.C.; Ayers, J.A.; Keane, M.A. General Hotors Corp., Chevrolet Engineering; General Hotors Corp., Research Laboratories ADDRESS: Warren, HI 48090 TITLE: Engine Control Optimization for Best Fuel BConomy 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
KETWORDS: FUEL ECONOMY; COMPUTER PROGRAMS;
AUTOMOTIVE EMISSIONS; TESTING; ENGINES;
CATALYTIC CONVERTERS; TABLES (DATA);
COMPARATIVE EVALUATIONS; PERFORMANCE; GRAPHS
(CHAPTS); OPTIMIZATION; AUTOMOTIVE EMISSION
COMPACT CONTROL

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
REYMORDS: ELECTRIC VEHICLES; URBAN
TRANSPORTATION; BUSES (VEHICLES); HYBRID
ELECTRIC-POWRRED VEHICLES; DESIGN;
COMPUTERIZED SIMULATION; DRAG; DIESEL
ENGINES; TESTING; ROAD TESTS; AERODYNAMICS;
GRAPPS (CHARTS)

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

<536> Roberts, P.O. Massachusetts Institute of Technology, Center for Transportation Studies ADDRESS: Cambridge, MA 02139

<536> <536> COST. TITLE: Pactors Influencing the Demand for Goods Novement

CTS Report No. 75-16, Working Paper No. 1, 34 p.
1975, September
SPONSOR: U.S. Dept. of Transportation, Office of University Research
REYWORDS: CARGO TRANSPORTATION; HARKET;
DISTRIBUTION; COSTS; CONSUMERS; DEMAND (ECONOMICS); PURCHASING; GRAPHS (CHARTS); INVESTORIES; TABLES (DATA); ECONOMIC ANALYSIS; HOUSELS; SYSTEMS ANALYSIS; CORMODITIES

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Roberts, P.O.
Hassachusetts Institute of Technology, Center for
Transportation Studies
ADDPESS: Cambridge, MA 02139
TITLE: Forecasting Freight Flows Using a
Disaggregate Freight Demand Hodel

CTS Peport No. 76-1, 26 p.
1976, January
SPONSOR: Pederal Energy Administration
REYWORDS: FORECASTING: CARGO TRANSPORTATION;
HATHEMATICAL HODELS: COSTS: TARIFFS:
COMPODITIES: DEHAND (ECONOMICS); PLANNING;
PATES (COSTS)

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

Report No. CTS 76-3, 18 p.
1976, February
SPOMSOR: 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);
DISTINCE

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Roberts, P.O.; Terziev, M.H.; Rneafsey, J.T.;
Wilson, L.B.; Samuelson, R.D.; Chiang, U.S.;
Deephouse, C.v.
Hassachusetts Institute of Technology, Center for
Transportation Studies
ADDRESS: Cambridge, NA 02139
TITLE: Analysis of the Incremental Cost and
Trade-offs Between Energy Efficiency and
Physical Distribution Effectiveness in
Intercity Preight Markets

CTS Report No. 76-14, 174 p.
1976, November
SPONSOR: Pederal Energy Administration, Office of
Transportation Policy Research
RETWORDS: INTERCITY TRANSPORTATION; CARGO
TRANSPORTATION; COSTS; HODELS; FORECASTING;
TRUCKS; RAIL TRANSPORTATION; TRAVEL TIME;
DELATS; TARIFYS; PUEL CONSUMPTION; MATERWAY
TRANSPORTATION; SHIPHENTS; FUEL RCONONT;
TOWNAGE; TABLES (DATA); COMMODITIES

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Robertson, B.; Baumgarten, G.P.

U.S. Dept. of Connerce, National Bureau of Standards, Institute of Basic Standards ADDRESS: Washington, DC 20234 TITLE: Evaluation of Automotive Fuel Flowmeters

Report No. PB-268582, 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: AUTOMOBILES: FUEL ECONOMY: HEASURING
INSTRUMENTS: FUEL CONSUMPTION: TESTING:
DIAGRAMS
AVAILAPILITY: 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
REYWORDS: EMERGY CONSERVATION; PASSENGER
TRANSPORTATION; INTERCITY TRANSPORTATION;
HODELS; FORECASTING; SOCIO-ECONOMIC FACTORS;
TRAVEL; MOISE (SOUND); AIR POLLUTION;
ACCIDENTS; LAND USE; OPERATING COSTS; SPEED
LIMITS; GASOLINE; TAXES
AVAILABILITY: HTIS

Report No. PB-250883, RNC Report UR-286, 30 p.
1975, December
SPONSOR: Council on Environmental Quality;
Federal Energy Administration
KEYHORDS: INTERCITY TRANSPORTATION; GOVERNMENT
POLICIES; HODELS; FUEL BEONOMY: TAIRS; EMERGY
CONSUMPTION; ECONOMICS; STATISTICS; VEHICLE
HILES TRAVELED; FORECASTING; TRANSPORTATION
HODE CHOICE
AVAILABILITY: NTIS

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

Report No. ERDA 76-65, 436 p.
1975, December
SPONSOR: Energy Research and Development
Administration, Division of Conservation
Research and Technology
RETWORDS: FERSIBILITY: FLYWHEELS; EMERGY STORAGE;
TABLES (DATA): TECHNOLOGY: FORECASTING;
ECONOMICS; UTILIZATION; TRANSPORTATION;
BLECTRIC UTILITIES; CONTERCIAL SECTOR;
INDUSTRIAL SECTOR; RESEARCH; DESIGH;
RESIDENTIAL SECTOR; RESEARCH; DESIGH;
PESIDENTIAL SECTOR; RYBRID EMECTRIC-POWERED
VEHICLES; ELECTRIC VEHICLES; INSTITUTIONAL
FACTORS; SAFETY; GRAPHS (CHARTS); DIAGRAMS

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Roelke, R.J.; ficLallin, K.L.
**ational Aeronautics and Space Administration,
 Lewis Research Center
ADDRESS: Cleveland, OH 4*135
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 TM-78894, E-9480, 22 p. E-9480, 22 p-1978, July SPORSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation KETWORDS: GAS TRBIRE ENGINES: PERFORMANCE; US NEW ORDER OF THE STREET OF THE PROPERTY; DOE: AUTOHOBILES: ABRODYNABICS; VELOCITY; TESTING; BUGINES; EPPICIENCY; EQUIPHENT; MEASUREMENT; PRESSURE REASUREMENT; GRAPHS (CHARTS); DIAGRAMS; TEMPERATURE; TORQUE AFAILAPILITY; NTIS

<545> Rohy, D.A.: Machman, J.P.; Duffy, T.E. International Harvester Co., Solar Division ADDNESS: 2200 Pacific Highway, San Diego, CA 92138 72/35 TITLE: Rutomotive Storage of Hydrogen Using Wodified Wagnesium Hydrides

Report No. TEC-75/002, 55 p.
1975, July
SPONSOR: U.S. Environmental Protection Agency,
Office of Air and Waste Management, Office of
Hobile Source Air Pollution Control, Alternative Automotive Power Systems Division: Energy Research and Development Administration, Division of Transportation Administration, Division of Transportation Energy Conservation RETWORDS: RIDROGEN; ADTONOBILES; HAGNESIUM "HYDPIDES; EMERGY STORAGE; ALTERNATE FUELS; MAGNESIUM ALLOYS: MESELECH; HYDRIDES; REFUELING; TAPLES (DATA); GRAPHS (CHARTS); HYDPOGEN STORAGE AVAILABILITY: NTIS

Rosenberg, N.; Bufferd, A.; Coonley, P.; Hamilton, W.; Kaiser, R.; Raber, P.T. U.S. Dept. of Transportation, Transportation Systems Center ADDRESS: Rendell Squere, Cambridge, 4A 02142 FITLE: Institutional Pactors in Transportation Systems and Their Potential for Bias Toward Vehicles of Particular Characteristics Peport NO. RCP/H1043-01, CONS/1043-1, 428 p.
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SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REYMODDS: HYBRID ELECTRIC-POWERED VEHICLES;
INSTITUTIONAL FACTORS; LEGISLATION; TAXES;
REGULATIONS; ELECTRIC VEHICLES; TAPPIC
COMTROL; GOVERNMENT POLICIES; AUTOHOFIVE
INDUSTRY; ELECTRIC POWER; BATTERY CHARGING;
VEHICLE PARKING; TABLES (DATA); REGIONAL
ANALYSIS; PRICES; RATES (COSTS); PETROLEUM;
URBAN ARRAS TREAT AREAS AVAILABILITY: MTIS

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<547> Rosenqvist, J.R.G.; Gunnesson, S.G.; Lundholm, RB United Stirling (Sweden) AB & 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; FUEL
COMSUMPTION; FUEL ECONOMY; TRUCKS; DIAGRAMS; COMMUNITION: FUEL ECONOMY: TRUCKS: DIAGRAMS: CONTROL EQUIPMENT AVAILABILITY: Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Farrendale, PA 15096

CSBA> Rosenthal, S.R.; Herniter, J.D.; Welam, U.P. ROSENTRAL, 5.K.; heratter, 5.D., wearn, 6.L. Boston University, School of Hanagement ADDRESS: Boston, HA 02215 FITLE: Hodel for Cost-Effective Haintenance of Rail Transit Vehicles in Urban Hass Transit Systems

Paper published in Transportation Research Record SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation administration RETWORDS: HAINTENANCE; COST ANALYSIS; SCHEDULING; RETUDENS: BAISTEMARCE; COST ANALYSIS; SCHEDULING RAIL TRANSPORTATION; RODELS; PLANNING AVAILABILITY: Mational Academy of Sciences, Transportation Research Board, 2001 Constitution Ave. NH, Washington, DC 20418 \$2.20 for Transportation Research Record 627

Ross, J.A.; Wooldridge, G.A. Rohr Industries Inc., Advanced Transportation Systems ADDRESS: Chula Vieta, CA 92010 TITLE: 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. 1978, April 1976, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; Mational
Aeronautics and Space Administration, Lewis
Research Center REMORDS: ELECTRIC VEHICLES; DESIGN; POWER TRAIN STSTEMS; PERFORMANCE; ELECTRIC VEHICLE PANGE; DRIVING CYCLE; EFFICIENCY; AUTOHOTIVE ENGINEERING; TESTING; SINULATION AVAILABILITY: HTIS

COOP Rowlett, B.H.; Hurry, R. Airesearch Hanufacturing Co. ADDRESS: Torrance, CA TITLE: Wear-Term Electric Vehicle Program: Phase 1, Yinal Report

Report Wo. SAW/1213-1, 259 p. 1977, August 1977, August
SPONSOR: Emergy Research and Development
Administration, Division of Transportation
Emergy Conservation
REYORDS: ELECTRIC VEHICLES; DESIGN; PERFORMANCE;
SAPETY; BATTERIES; TABLES (DATA); GRAPES
(CHARTS); DIAGRANS; EMERGY STORAGE;
ECONOMICS; COSTS; DEVELOPMENT; RODELS;
SIMULATION; LIFE-CYCLE COST; TRANSPORTATION
AVAILABILITY; MIIS

(551) Ruscitto, D.; HcCornick, J.; Gray, S. Rechanical Technology Inc. ADDRESS: Latham, NT 12110 ADDRESS: Latham, ST 12/10
FITLE: Hydrodynamic Air Lubricated Compliant
Surface Bearing for an Automotive Gas Turbine
Bagine. I - Journal Bearing Performance

Report No. CONS/9427-1, NASA-CR-135368, 148 p. Report No. Construction, and action is story, 1976, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration
REYMORDS: TESTING: AUTOHOTIVE ENGINES: GAS TYRPINE ENGINES; BEARINGS; DESIGN; PERFORMANCE; TEMPERATURE AVAILABILITY: NTIS

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Sacco, J.P.: 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
TITLE: Impact of the Energy Shortage on Travel
 Patterns and Attitudes

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

1976
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration
KEYWORDS: EMERGY SHORTAGES; TRAVEL; ATTITUDES;
AUTOMOBILES; SOUTH CAROLINA; PUBLIC
TRAMSPORTATION; GASOLINE; AVAILABILITY;
SERVICES; EMERGY CONSERVATION; 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

<553> Seasel, J.H.G. Ravanced Vehicle Systems Ltd. ADDRESS: United Kingdom TITLE: U.K. Electric Vehicle Development Programmes

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

RETWORDS: UNITED KINGDON; ELECTRIC VEHICLES; BATTERIES; DESIGN; VANS; LEAD-ACID BATTERIES;

BATTERIES; DESCRIP; VANS; LEAD-ALID BATTERIES BESERRCH; PROTOGRAPHS AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Varrendale, PA 15095 \$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; RAIL TRANSPORTATION: BUSES (VEHICLES): RAPID TRANSIT SYSTEMS; HIGHWAY TRANSPORTATION; VELOCITY: CAPACITY; OPERATING COSTS; EMERGY COMSTHPTION; EMISSIONS; ACCIDENTS; REGIONAL AWALYSIS; COMPARATIVE EVALUATIONS; GRAPHS (CHARTS); TABLES (DATA)

<555> Brecutive Office of the President, Office of Hanagement and Budget ADDRESS: Washington, DC TITLE: Predicting Transporter's Choice of Hode

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REYPORDS: PORECASTING; RAIL TRANSPORTATION; CARGO
TRANSPORTATION; BARGES; COSTS; COMPUTERIZED
SIMULATION; DEMAND (ECONOMICS); MODELS; OHIO
BIVER; TRAFFIC; STATISTICS; TRANSPORTATION

<556> Sasser, J.; Emerson, J.; Garcia, A. Tetra Tech Inc. ADDRESS: 1911 M. Port Hyer Drive, A RESS: 1911 N. Fort Hyer Drive, Arlington, VA 22209 TITLE: Assessment and Forecast of Marine Fuels
Price and Availability

Report No. COM-75-1054, MA-RD-920-75021, v.p. 1975, April 12 SPONSOR: U.S. Dept. of Commerce, Maritime Administration Administration
KEYWORDS: FORECASTING: WATER TRANSPORTATION;
FUELS; PRICES; AVAILABILITY; HARINE
TRANSPORTATION; RESIDUAL DILS; TANKER SHIPS;
CARGO TRANSPORTATION; FUEL CONSUMPTION;
ALTERNATE FUELS; PETROLEUR; DEHAND
(BCONOMICS); SUPPLY (ECONOMICS); ENERGY
DEHAND; ERERGY 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

RETWORDS: HIGHWAYS; PLANNING; FORECASTING; TRAFFIC; HODELS; TABLES (DATA); SCHEDULING; CONSTRUCTION

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

Schink, G.R.; Loxley, C.J. Wharton EFA Inc. ADDRESS: One University City, 4025 Chestnut St.,

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Philadelphia, PA 19104

TITLE: An Analysis of the Automobile Merket;

Modeling the Long-Run Determinants of the
Deaand for Automobiles. Volume I. The
Wharton EFA Automobile Deaand Model

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1977, Pebruary
SPOMSOR: U.S. Dept. of Transportation, Office of
the Secretary; U.S. Dept. of Transportation,
Transportation Systems Center
KETWORDS: ECONOMISTRIC MODELS; MARKET;
DERAYD (ECONOMISS); FORECASTING; AUTOHOBILES; DERAND (ECOHORICS); FORECASTING; SALES: VEHICLE REGISTRATIONS: FUEL ECOHORI: SIMULATION; GOVERNMENT POLICIES; COSTS; STOCKS AVAILABILITY: HTIS

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Schink, G.R.; Loxley, C.J.
Wharton SPA Inc.
ADDPESS: One University City, 4025 Chestnut
 Street, Philadelphia, PA 19104
TITLE: An Analysis of the Automobile Market:
 Modeling the Long-Run Determinants of the
 Demand for Automobiles. Volume II:
 Simulation Analysis Using the Wharton E.P.A.
 Automobile Demand Model

Folume II of 3 volumes, v.p.
1977, February
SPOMSOR: U.S. Dept. of Transportation, Office of
the Secretary: U.S. Dept. of Transportation,
Transportation Systems Center
RETWORDS: AUTOMOBILES; MARKET; DEMAND
(ECONOMICS): SIMULATION; ECONOMETRIC MODELS;
FORECASTING; GASOLIME: PRICES: TABLES (DATA);
INCOME; TAXES; GOVERNMENT POLICIES; OPFC
AVAILABILITY: HTIS Volume II of 3 volumes, v.p.

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ADDRESS: One University City, 4025 Chestnut
Street, Philadelphia, PA 19104
TITLE: An Analysis of the Automobile Market:
Modeling the Long-Run Determinants of the
Demand for Automobiles. Volume III:
Appendices to the Wharton E.F.A. Automobile
Demand Model

Volume III of 3 volumes, 261 p. 1977, Pebruary SPONSOR: U.S. Dept. of Transportation, Office of the Secretary; U.S. Dept. of Transportation, of the Secretary; U.S. Dept. of Transportation, Transportation Systems Center RETWORDS: ECONOMETRIC HODELS; AUTOMOBILES; FORFCASTING; DEMAND (ECONOMICS); TABLES (DATA) AVAILABILITY: NTIS

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

Report Wo. COO-2749-18, 261 p.
1977, April 30
SPOTSOP: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KETWORDS: GAS TURBINE EMGINES: DESIGN;
EPFICIENCY; PUBL ECONOMY; GRAPHS (CHARTS);
TABLES (DATA): DIAGRAMS: VEHICLES;
PERFORMANCE; DEVELOPMENT
AVAILAPILITY: NTIS

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

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

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

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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. June 24 (124, 1976, 7 p. 1976, June 24 KEYBORDS: BATTERIES; ELECTRIC VEHICLES; MARKET; PETROLEUM; PUEL CONSUMPTION; COMMERCIALIZATION AVAILABILITY; NYIS

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Paper published in Transportation Research Record 1977 SPONSOR: National Academy of Sciences, Transportation Research Board REYWORDS: PUBLIC TRANSPORTATION; MARKETING;

بمانى بعثر فالمباهنين للأقصيص فالأفاسات

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COMSUMRES; BUSES (VEHICLES); ATTITUDES;
QUESTIONHAIRES
AVAILABILITY: Metional Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NH, Washington, DC 20418
\$3.20 for Transportation Research Record 625

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Schwarz, R.
ASL Engineering Inc.
ADDRESS: 495 South Fairview Avenue, Goleta, CA
93017
TITLE: Wear-Term Electric Vehicle Program.
Phase 1, Final Report

Report No. SAM/1295-1, 30% p.
1977, August
SPONSOR: Fhergy Research and Development
Alabistration, Division of Transportation
Energy Conservation
REYWORDS: ELECTRIC VEHICLES; DESIGN; PATTERIES;
PERFORMANCE; TABLES (DATA): GRAPHS (CHARTS);
DIAGPAMS: LIPE-CYCLE COST; COSTS; EFFICIENCY;
EN ERGY STORAGE; URBAN TRANSPORTATION; EMERGY
COMSOMPTION: EMERGY CONSERVATION; WEIGHT
AVAILABILITY: HTIS

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Seda, B.
Research Institute for Rotating Electrical
Hachines
ADDRESS: Brno, Czechoslovakia
TITLE: Development of Electric Vehicles in
Czechoslovakia

Paper presented at the Fourth International
Electric Vehicle Symposium, held in
Dusseldorf, Germany, August 31 - September 2,
1976, 12 p.
1976, September
SPOWSOR: Electric Vehicle Council: International
Thion of Producers and Distributors of
Electrical Energy
KEYMORDS: ELECTRIC VEHICLES: DEVELOPMENT:
CREMOSLOVARIA: BRESS (VEHICLES): COMPROL
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1,50

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Sevien, W.A.; Selzeno, F.J.
Brookhaven Fetional Laboratory
ADDRESS: Upton, NY
TITLE: Systems Study of Two Synthetic
Transportation Fuel Options

Report No. BWL-20071, COMP-741013-4, paper presented at the 185th Recting of the Electrochemical Society, New York, New York, Oct. 17, 1974, 10 p.
1978
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2970780 R: Energy Research and Development Administration

ACBINISTICATION
RETPONDS: ALTERNATE FUELS; COAL; HIDROGER;
RETRANE; SYNTHETIC FUELS; FORECASTING;
HODPLS; ENVIRONMENTAL INPACT; TRANSPORTATION
AVAILABILITY: HTIS

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Shatghnessy, A.E.
Rational Acadesy of Sciences, Fational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue, Washington, DC
20418

TITLE: Railroad Electrification: The Issues

Transportation Research Board Special Report 180, 88 p.
1977

KEYHORDS: RAIL TRANSPORTATION; RAILROADS; ELECTRIC RAIL SYSTEMS; CONFERENCES; EQUIPMENT; COSTS; ELECTRIC POWER DEMAND; FINANCING; PLANNING; CAPITAL COSTS; HAIMTEMANCE; ECONOMIC AWALYSIS

AVAILABILITY: \$3.80

Report No. BHL-21995, 50 p.
1976, October
SPONSOR: Brookhaven Mational Laboratory, Mational
Center for Analysis of Energy Systems,
Economic Analysis Divison; Energy Research
and Development Administration, Administrator
for Planning, Analysis, and Evaluation
KEYWORDS: PETROLEUM; COSTS; COAL; TRANSPORTATION;
HATURAL GAS; REGIONAL AMALYSIS; EMERGY
CONSUMPTION; MODELS; EMERGY SYSTEMS;
SIMULATION; EMERGY SUPPLIES; GRAPHS (CHARTS);
SUPPLI (SCOMOMICS)
AVAILABILITY: HTIS

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Shelton, E.M.
Energy 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.
1977, June
KEYWORDS: GASOLINE; SURVEYS; TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION; UNLEADED
AUTONOTIVE FUELS; OCTANE; HAPS; HARKETING;
TRENDS; PHYSICAL PROPERTIES

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Shelton, R.H.
U.S. Dept. of Energy, Bartlesville Energy
 Research Center
ADDRESS: Bartlesville, OK
TITLE: Diesel Fuel Oils, 1977

Report No. BERC/PPS-77/5, 38 p.
1977, November
REYMORDS: DISSEL FUELS; FUEL OIL; TABLES (DATA);
GRAPHS (CHARTS); REGIONAL AWALTSIS; SUBVEYS;
CHEMICAL PROPERTIES; CHEMICAL COMPOSITION;
TESTING
AVAILABILITY: WIIS

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Shelton, B.H.
T.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Rotor Gasolines, Summer 1977

Report No. BERC/PPS-78/1, 90 p.
1978, January
RETWORDS: GASOLINE; SURVEYS: TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION: UNLEADED

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Shelton, E.fl.
T.S. Dept. of Energy, Bartlesville Energy
Pessarch Center
ADDRESS: Martlesville, OK TITLE: Aviation Turbine Fuels, 1977

Report Bo. BERC/PPS-78/2, 13 p.
1978, May
REYWORDS: AVIATION FUELS; JET ENGINE FUELS;
COMPARATIVE EVALUATIONS; STATISTICS; CHEMICAL PROPERTIES AVAILABILITY: PTIS

<575> Sherrer, P.V. U.S. Dept. 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; MOTORCYCLES; AUTOHOBILES; BYSPS (VERICLES); TRUCKS; TABLES (DATA); GRAPPS (CHARTS): STATE GOVERNMENT; HAPS AVAILABILITY; GPO \$0.90, Stock No. 5502-00098

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Shonka, D.B.

Dak Ridge Mational Laboratory, Energy Division, Pegional and Orban Studies Section ADDRESS: Oak Ridge, Th. 37830

TITLE: Characteristics of Automotive Fleets in the United States: 1966-1977

Report No. ORML/TH-6449 Special, 49 p. 1978, September 1978, September
SPORSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: AUTOHOTIVE FLEETS: AUTOHOBILES;
INVESTORIES: PURCHASING; PUEL ECONOMY;
OWFERSHIP: SURVEIS: TABLES (DATA): SIZE;
VEHICLE REGISTRATIONS; VEHICLE HILES
TRAVELED: CHRACTERISTICS
AVAILABILITY: HTIS

Peport No. ORNL-5320, 459 p.
1977, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETEORDS: EMERGY CONSERVATION; HIGHWAT
TRANSPORTATION; ARE TRANSPORTATION; RAIL
TRANSPORTATION; RARINE TRANSPORTATION;
PIPPLINE TRANSPORTATION; STATISTICS; TABLES

1

(DATA); GRAPHS (CHARTS); VEHICLES;
REGULATIONS: EMERGY CONSUMPTION; DEMAND
(ECONOMICS): FUEL ECONOMY: FUEL CONSUMPTION;
AUTOMOBILES; EMERGY INTENSITY; TRAVEL; EMERGY
DEMAND; PASSENGER TRANSPORTATION; AUTOMOTIVE
FLEETS; PETROLEUM; SALES; PUBLIC
TRANSPORTATION; UBBN TRANSPORTATION; VEHICLE
REGISTRATIONS; VEHICLE HILES TRAVELED;
FORECASTING; GOVERNMENT POLICIES; EMERGY
SUPPLIES; WATER TRANSPORTATION
AVAILABILITY: MTIS

<578> <578> Silberman, J.B. (ed.) National Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418 TITLE: Value of Travel Time

Transportation Research Record 587, 41 p. 1976
REYHORDS: TRAVEL TIME; TRANSPORTATION; VEHICLE
TRIPS; PRICES; PLANNING; HODELS; PASSENGER
TRANSPORTATION; COSTS; INTERCITY
TRANSPORTATION; BEHAVIOR; USERS; ECONOMIC
ANALYSIS; BENEFIT COST ANALYSIS; COST
EFFECTIVENESS; TRAFFIC; PESEARCH; HOBILITY
AVAILABILITY: \$2,40

<579> Silberman, J.B. (ed.) Mational Academy of Sciences, Mational Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation Energy Conservation and Demand

Transportation Research Record 561, 6 reports prepared for the 54th Annual Meeting of the Transportation Research Board, 71 p. 1976
KEYHORDS: TRANSPORTATION; EMERGY CONSERVATION;
EMERGY DEMAND; DEMAND (ECONOMICS);
COMPERENCES; MEETINGS; URBAN TRANSPORTATION;
ATTITUDES; EMERGY SHORTAGES; RURAL AREAS;
COMMUTING; NEW JERSEY; GASOLIME; OWNERSHIP;
ENVIRONMENTAL IMPACT; TABLES (DATA)
AVAILABILITY: \$5.00

Silence, S.M.; Chesshire, L.M. U.S. Dept. of Transportation, Pederal Highway Administration ADDRESS: Washington, DC TITLE: Reevaluation of Ground Access to Airports Paper presented at the 52nd Annual Reeting of the Highway Research Board, published in Highway Research Record No. 439, 19-27

SPONSOR: National Academy of Sciences, National Research Council, Highway Research Board REYMORDS: AIRPORTS: HIGHWAY TRANSPORTATION: TRAVEL TIME; PERK-MOUR DENAND; VELOCITY; URBAN TRANSPORTATION; URBAN AREAS; DISTANCE; GRAPHS (CHARTS)

GRAPHS (CHARTS)
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. HW, Washington, DC 20818
\$2.00 for Highway Research Record No. 439

<581>
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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, MD 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

Report Mo. PB-251882, GRTA-IT-06-0025-76-1, 245 g 1976, January SPONSOR: U.S. Dept. of Transportation, Grban Mass Transportation Administration KEYWORDS: TRANSPUS; TESTING; BUSES (VEHICLES); PUBLIC OPINION; QUESTIONNAIRES; SURVEYS; TABLES (DATA); TRANSPORTATION DISADVANTAGED; PHOTOGRAPHS; PASSENGER TRANSPORTATION AVAILABILITY: WTIS

<582>
Skinner, L.E.
U.S. Dept. of Transportation, Federal Righway
Administration
TITLE: Comparative Costs of Urban Transportation
Systems

Final Report, 100 p.
1978, June
KEYWOPDS: COSTS; DRBAN TRANSPORTATION;
TRANSPORTATION SYSTEMS; COMPARATIVE
EVALUATIONS; TRAVEL TIME; PLANNING;
TRANSPORTATION HODE CHOICE; TABLES (DATA);
GPAPHS (CHARTS)
AVAILABILITY: GPO, Stock No. 050-001-00137-3

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Smith, J.R.: Tracy, J.C.: Potter, D.S.
Seartal Motors Corp., Research Laboratories,
 Physics Dept., Environmental Activities Staff
ADDRESS: Warren, MI
TITLE: Tire Rolling Resistance - A Speed
 Dependent Contribution

Paper No. 780255, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 6 p.
1978
REYWORDS: TIRES; VELOCITY; MODELS; FUEL ECONOMY; AUTOMOBILES; FRICTION; WEAR
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Sobel, K.L.; Batchelder, J.H.
Rultisystems 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 KRYWORDS: URBAN TRANSPORTATION; PUBLIC TRANSPORTATION; PLANNING; OPERATING COSTS; MOBILITY; PUBLIC OPINION
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

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Society of Automotive Engineers Inc.
ADDRESS: 400 Commonwealth Dr., Warrendale, PA
15096
TITLE: Automotive Fuel Economy (Selected SAE
Papers 1965 - 1975)
Progress in Technology Series, Volume 15, 314 p.

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Society of Automotive Engineers Inc.
ADDRESS: 400 Commonwealth Drive, Warrendale, PA
15096
TITLE: Engineering Know-How in Engine Design.

KEYNORDS: AUTOMOBILES; PUEL ECONOMY; TESTING; FUEL CONSUMPTION; UTILIZATION; OPERATION; DESIGN; LUBRICANTS; GASOLINE; BIBLIOGRAPHIES

Part 24: Economy in Engine Performance

Report No. SAE SP-411, Off-Highway Vehicle

Reeting, Milvaukee Wisconsin, September
13-16, 1976, 54 p.

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SPONSOR: Society of Automotive Engineers,

Milwaukee Section

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ENGINEERING; FUEL CONSUMPTION; FUEL ECONOMY;

DESIGN; AUTOMOTIVE EMISSIONS; PARM EQUIPMENT;

DIESEL ERGINES; GRAPHS (CHARTS); DIAGRAMS;

SINTHETIC FUELS; AUTOMOTIVE EMISSION COWNOL;

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
RETWORDS: PLANNING; TRANSPORTATION; EMERGY
CONSERVATION; INTERCITY TRANSPORTATION;
TABLES (DATA); SIMULATION; EMERGY
CONSUMPTION; GOVERNMENT POLICIES; BUSES
(YEHICLES); RAIL TRANSPORTATION; AUTOMOBILES;
AIR TRANSPORTATION; RAPID TRANSIT SYSTEMS;
SUBSIDIES; TAXES

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

Report No. DOE/NASA/1011-78/27, MASA 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. SPONSOP: U.S. Dept. of Energy, Division of Transportation Energy Conservation

5 p.
SPONSOP: U.S. Dept. of Energy, Division of Transportation Energy Conservation RETHORDS: ELECTRIC VEHICLES; TESTING; DRIVING CYCLE; VELOCITY; EQUIPMENT AVAILABILITY: NTIS

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Soltis, R.F.; Bozek, J.M.; Denington, R.J.;
Dustin, M.O.

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Report No. MASA TH-73769, COM/1011-14, 68 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETFORDS; ELECTRIC VEHICLES; HIBRID
ELECTRIC-POWERED VEHICLES; INSTING;
ACCELERATION; ELECTRIC VEHICLE RANGE;
PASSENGER TRANSPORTATION; FUEL ECOHOMY; SPARK
IGHITION ENGINES; PERFORMANCE; DIAGRAMS;
GRAPHS (CHARTS); EMERGY CONSUMPTION
AVAILABILITY: ETTS

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Soltis, R.F.; Dustin, H.O.; Sargent, N.B.
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 Lewis Research Center
ADDRESS: Cleveland, OR 44435
TITLE: Peaults of Baseline Tests of the Lucas
 Lisousine

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1977, January
SPOHSOR: Fnergy Research and Development
Administration, Division of Transportation
Fnercy Conservation
REFHORDS: ELECTRIC VEHICLES: TESTING: DRIVE TRAIN
SYSTEMS: BATTERIES: PASSENGER TRANSPORTATION:
DRIVING CYCLE; PERFORMANCE; HILEASE; ENERGY
CONSUMPTION: STANDARDS: PHOTOGRAPHS; GRAPHS
(CHAPTS): ELECTRIC VEHICLE RANGE
AVAILABILITY: HTIS

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Southerd, L.G.; Horner, A.L.
D.S. Dept. of Energy, Energy Information
 Alministration
ADDRESS: Washington, DC 20241
TITLE: International Petroleum Annual: 1976

Report Fo. DOE/EIA-0042, 34 p.
1978, June
REYNORDS: PETROLEUM; PETROLEUM PRODUCTS;
PRODUCTION: INTERNATIONAL ANALYSIS; IMPORTS;
EXPORTS; PRICES: NATURAL GAS; TABLES (DATA);
PETROLEUM REPINING; ENERGY DEMAND; OIL WELLS;
CAPACITY

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

Report No. HCP/W3684-01/1, 218 p.: Report No. HCP/W3684-01/2 for Executive Summary, 55 p. 1978, May
SPONSOP: U.S. Dept. of Energy, Division of Transportation Energy Conservation
REFUNDES: ALTERNATE PUBLS: RAW HATERIALS:
ATTOMOTIVE PUBLS; DIRSEL FUBLS; MARKET:
TRANSPORTATION; EMERGY FLOW; TABLES (OATA);
FORECASTING: EMERGY DEMAND: SYNTHETIC
PETROLETH; REFINING; PROPERTIES; OIL SHALE;
ALCOHOL FUBLS; AUTOMOBILES; HETHANOL; COAL;
PRODUCTION; MIDROCARBORS; IMTERNAL COMPUSTION
EMGINES; OCTANE; GASOLINE

Systems, G.W.: Hooper, N.J.: Bonham, C.H.: Rason, R.H.: Grocki, J.J.: Hall, C.H.
Metrics Inc.
ADDRESS: 290 Interstate Morth, Suite 116, Atlanta, GA 30339
FITLE: Evaluation of Maritime Industry Energy Consumption Profiles

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1977, December
SPONSOR: U.S. Dept. of Commerce, Maritime Administration
KEIWORDS: EMERGY CONSUMPTION; EMERGY
CONSENVATION; SURVEYS; HARIME TRAMSPORTATION;
CARGO TRAMSPORTATION; WATERWAY
TRAMSPORTATION; INDUSTRIES; WATER
TRAMSPORTATION; INDUSTRIES; WATER
TRAMSPORTATION; GREAT LAKES; EPPICIENCY

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Sparks, W.D.
Air-Conditioning and Refrigeration Institute
ADDRESS: Arlington, VA
TITLE: Conservation: The Centerpiece

ASHRAE Journal, 19(5), 22-24
1977, May
KEYMORDS: EMERGY CONSERVATION: TRANSPORTATION:
PRICES; PETROLEUN; MATURAL GAS; EMERGY
SHORTAGES; CONSUMERS; GOVERNMENT POLICIES;
ELASTICITY (ECONOMICS): BUILDINGS; EMERGY
CONSUMPTION; STANDARDS; ATTITUDES; PUBLIC
OPINION; INCENTIVES; INSULATION; APPLIANCES

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Spenny, C.H.; Clarke, J.M.
J.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, NA 02142
TITLE: A Computer Program (POWREQ) for Power
Requirements of Mass Transit Vehicles

Report No. UMTA-NA-06-0044-77-2,
DOT-TSC-UNTA-76-2, 68 p.
1977, August
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration, Office of
Technology Development and Deployment
RETMORDS: COMPUTER PROGRAMS; HASS TRANSPORTATION;
COMPUTERIZED SIMULATION; ENERGY CONSUMPTION
AVAILABILITY: NTIS

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Springer, K.J.
Southwest Research Institute, Automotive Research
Division, Dept. of Emissions Research
ADDRESS: San Antonio, TX
TITLE: Transportation, Trucks and Fuel

Paper presented at the Fourth Interamerican Conference on Materials Technology, Hotel Macuto-Sheraton, Caracas, Venezuela, June 29-July 4, 1975, 7 p.

NETWORDS: TRANSPORTATION; TRUCKS; ENERGY CONSPRVANTON; FUEL CONSUMPTION; VELOCITY; WEIGHT; LOAD FACTOR; SAFETY; EMISSIONS; BEHAVIOR; DIESEL FUELS; GASOLINE

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SRI International (formerly Stanford Pessarch
Institute)
ADDBESS: 333 Revenuevood Avenue, Henlo Park, CA
98025
FITIE: Fuel and Energy Price Forecasts:
Quantities and Long-Tern Harginal Prices.
Final Report. Volume I

Report No. EPRI BA-433, Research Project 759-1, 171 p.
1977, September
3970, September
3970857: Electric Power Research Institute
RETWORDS: FUZLS; PRICES; FORECASTING; COAL;
GRANIGH; PETROLEUH; PETROLEUH PRODUCTS;
FATURAL GAS; SYNTRETIC GAS; SYNTRETIC
ADDRESS SYNTRETIC FATURAL GAS; SYNTHETIC GAS; SYNTHETIC PETFOLENH; ELECTRIC POWER GREERATION; RESIDENTIAL SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION; EMERGY MODELS; NUCLEAR FOLLS; GRAPHS (CHARTS); TABLES (DATA); EMERGY DENAMD

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Stanford Research Institute
ADDVESS: 333 Revensuood Avenue, Henlo Park, CA
94025
TITLE: Fuel and Energy Price Forecasts: Final
Report. Volume II - Data Base Report No. EPRI NA-433, Research Project 759-1,

Report No. PPRI BA-433, Research Project 759-1, 289 p.
1977, Pebruary
SPONSOR: Blectric Power Research Institute
RETWONDS: ENERGY SUPPLIES; ENERGY HODELS; ENERGY BALANCE: DEFAND (SCONGRICS): PRICES; COSTS; TABLES (DATA); GRAPHS; ENERGY: RESIDENTIAL SECTOR; COHHERCIAL SECTOR; INDUSTRIAL SECTOR; TTANSPORTATION: FUELS: EMERGY CONVERSION: ECONOTICS AVAILABILITY: Electric Power Research Institute, 3412 Hillview Ave., Palo Alto, CA 94304

<599> C1993 Stanford Research Institute ADDRESS: Henlo Park, CA 94025 TITLE: Long Term Emergy Alternatives Propulsion: Synthetic Fuel Versus Battery/Electric System

Report No. PB-262513, MSF/PRA-7516162/1/6, v.p. 1976, August Report No. PB-262513, MSF/PRA-7516162/1/6, v.p.
1976, August
SPONSOR: Mational Science Foundation, Division of
Policy Research and Analysis
FOLICY RESEARCH STATEMENT FOR STATEMENT FOR STATEMENT FOR STATEMENT FOR STATEMENT FOR STATEMENT FOR STATEMENT STATEMENT FOR STATEMENT ST TRANSFISSIONS AVAILABILITY: HTIS

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Steerns, H.D.: Cooper, E.: Schaeffer, K.H.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDESS: Rendall Square, Cambridge, HA 02142
TITLE: An Analysis of Transportation Planning
Reflectiveness

Report No. UHTA-NA-09-9003-77-1, 78 p. 1977. July 1977, July SPONSOR: U.S. Dept. of Transportation, Urban Hass Transportation Administration, Office of Transportation Planning, Office of Planning Assistance RPTWORDS: PLANNING; TRANSPORTATION: URBAN TRANSPORTATION; REGIONAL ARALYSIS; TABLES (DATA); TRANSPORTATION SYSTEMS; LOCAL

GOVERNHENT AVAILABILITY: NTIS

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Stenger, A.J.: Cunningham, W.H.J.
Pennsylvania State University, Pennsylvania
Transportation Institute
ADDRESS: University Park, PA 16802
PITLE: An Experiment in Preight Rodal Choice:
Delineating the Rail-Truck Interface

Report No. PB-263156, DOT-TST-76-83, 145 p. Report No. PB-263156, DOT-TST-76-83, 145 p.
1976, May
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
RETWORDS: CARGO TRANSPORTATION; TRUCKS; COMMODITIES;
HIGHWAY TRANSPORTATION; TRUCKS; COMMODITIES;
RAIL TRANSPORTATION; PROCES;
HARRET; COMPETITION; RATES (COSTS); TOWNAGE;
DISTANCE; TABLES (DATA); REGIONAL ABALTSIS;
QUESTIONNAIRS; SURVEYS;
AVAILAPILITY; HTIS

<602> <602> Stopher, P.R. Cornell University, Dept. of Environmental Engineering ADDRESS: Ithaca, BT TITLE: Applications of Value of Travel Time to Economic Evaluation of Transport Investment Alternatives

Paper published in Transportation Research Record ____587, 19-23 SPONSOR: National Academy of Sciences, Transportation Research Board

RETWORDS: TRAVEL TIME: ECONOMIC ANALYSIS; BENEFIT

COST NALLYSIS; COST EPPECTYSTESS; PLANKING

AVAILABILITY: National Academy of Sciences,

Transportation Research Board, 2101

Constitution Ave. NW, Washington, DC 20418

\$2.40 for Transportation Research Becord 557

<603> Stopher, P.R.
Cornell University, Dept. of Environmental
Engineering
ADDRESS: Ithaca, NY
TITLE: Derivation of Values of Time from Travel
Demand Models

Paper published in Transportation Research Record 587, 12-18 1076 1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
REYMORDS: HODELS; BERMYLOR; TRAVEL THE; VEHICLE
TREPS; PASSENGER TRANSPORTATION
AVAILABILITY: Fational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.40 for Transportation Research Record 587

<604> Strassheim, H.R.
Saryland, University of
TITLE: Airline Demand Functions in the North
Atlantic and Their Pricing Implications

Journal of Transport Economics and Policy, Hay 1978, 179-195
1978, May RETWORDS: AIR TRANSPORTATION; ECONOMETRIC HODELS;

C608> COMT. PRICES; ELASTICITY (ECONOMICS); TRAVEL: MARKET

AUTOGOBILES; EPPICIENCY; TABLES (DATA); PORECASTING; EMERGY POLICY; LEGISLATION

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Stucker, J.P.; Kirkwood, T.F.
Pand Corp.
ADDRESS: 1700 Hain Street, Santa Honica, CA 90406
TITLE: The Economic Impact of Automobile Travel
Cost Increases on Households

Report No. R-1842-MSF/FEA, 61 p.
1977, July
SPONSOR: Sational Science Poundation; Pederal
Finergy Administration
REYNORDS: EMERGY CONSUMPTION; EMERGY DEMAND;
GOVERNMENT POLICIES; GASOLIME: AIR QUALITY;
FAMILY LIPE; COSTS: SOCTO-ECONOMIC FACTORS;
INCOME; VEHICLE TRIPS; COST ESTIMATES;
ITSURANCE; TABLES (DATA); SURVEYS;
ATTOMOBILES; OPERATING COSTS; ELASTICITY
(ECONOMICS); OCCUPANCY; GRAPHS (CHARTS);
HAINTENANCE; FUEL ECOMONY

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Suto, P.L.: Rilpatrick, H.E., Jr.
Purvis Systems Inc., Washington Operations
ADDRESS: 3286 M Street NW, Washington, DC 20007
FITTE: Statistical Report on Urban Energy
Consumption

Peport Ho. OST-TPI-76-02, 72 p.
1976, June
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of Transportation
Economic Analysis
KPYWORDS: CARGO TRANSPORTATION; EMERGY
CONSUMPTION; GOVERNMENT POLICIES; URBAN
AREAS; EMERGY RESOURCES; PRICES; PETROLEUH;
US DOT; STATISTICS; TABLES (DATA); COAL;
NATURAL GAS; ELECTRIC POWER; RESIDENTIAL
SECTOR; INDUSTPIAL SECTOR; TRANSPORTATION
AVAILABILITY: MTIS

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Sweeney, J.L.
Stanford University, Dept. of
Engineering-Economic Systems
ADDRESS: Stanford, CA 94305
TITLE: U.S. Gasoline Demand: An Economic
Analysis of the EPCA New Car Efficiency
Standard

51 p.
1977, July
SPONSOR: Energy Research and Development
Administration, Office of Conservation
Planning Policy
RESYMPNES: GASOLINE: FITTL ECONOMY; AUTOMOBILES;
EFFICIENCY; STANDARDS; FUEL CONSUMPTION;
AUTOMOTIVE INDUSTRY; PRICES; GOVERNMENT
POLICIES; ECONOMIC AWALTSIS; ELASTICITY
(ECONOMICS); GRAPMS (CHARTS); TAXES; CONSUMERS

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Data Resources Inc. Energy Bulletin, 6-11 1977, August RETFORDS: GASOLIES; TAXES; FUEL CONSUMPTION; C609>
Systems Design Concepts Inc.; Brookhaven Mational
Laboratory, Mational Center for Analysis of
Energy Systems, Policy Analysis Division
ADDRESS: SDC, 9 Rector St., New York, NY 10006;
BHL, Opton, NY 11973
TITLE: Transportation Energy Consumption and
Conservation Policy Options in the Mortheast
BML Mortheast Energy Perspectives Study, Report
No. BML 50554, 163 p.
1976, April
SPOMSOR: Energy Research and Development
Administration, Division of Biomedical and
Environmental Research
RETWORDS: TRANSPORTATION; EMERGY COMSUMPTION;
EMERGY CONSERVATION; FORECASTING; TABLES
(DATA); REGIONAL ANALYSIS; GOVERNMENT
POLICIES: NORTHEASTERN STATES; EMERGY DEMAND
AVAILABILITY: MTIS

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

Report No. CONS/1011-18, WASA TH-73755, paper presented at the Winter Annual Recting, American Society of Nechanical Engineers, Atlenta, Georgia, November 27 - December 2, 1977, v.p.

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SPONSOR: Emergy Research and Development Administration, Division of Transportation Energy Conservation Systems; Atomization; EVAPORATION; DIAGRAMS; GRAPHS (CHARTS); GAS TURBINES: CATALISTS; COMBUSTORS; AUTOHOBILES AVAILABILITY: MTIS

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Tap, R.: Kaprelian, A.
U.S. Dept. of Transportation, Transportation
 Systems Center
ADDRESS: Kendall Square, Cambridge, NA 02192
TITLE: Transportation Statistical Data and
 Information

Report No. PB-265e57, DOT-TSC-OST-76-60, 226 p.
1976, December
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans and International
Affairs, Office of Transportation Systems
Analysis and Information
REFORDS: TRANSPORTATION; STATISTICS; GOVERNMENT
POLICIES; INFORMATION; AVAILABILITY
AVAILABILITY: HTIS

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Taussig, W.H.
Taussig Associates
ADDRESS: Canaen Street Village, Canaen, HH 03741
TITLE: British Airways - An Analysis of
Efficiency and Cost Levels
Report No. PB-268060, OST-PS-70292, 66 p.

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SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Air Transportation Policy Staff
*EYWORDS: EPPICIENCY; COSTS; TABLES (DATA);
UNITED KINGDON; STATISTICS; AIR
TRANSPORTATION; REVENUE; COMPARATIVE
FYALOATIONS; PASSENGER TRANSPORTATION;
OPERATING COSTS; CAPITAL COSTS; CARGO
TRANSPORTATION; USA; PRODUCTION; FINANCIAL
DATA: EARNINGS; PROPITS
AVAILABILITY: NTIS 1977, Hay SPONSOR:

Report No. PB-269492, DOT-TST-77-2, v.p. 1976, September

Report No. PB-269492, DOT-TST-77-2, v.p.
1976, September
SPOMSOR: U.S. Dept. of Transportation, Office of
University Research
KEYPORDS: TOURISH: TRAFFIC: URBAN AREAS; URBAN
TRANSPORTATION; HISTORY; LOCAL GOVERNMENT;
TRAVEL: VEHICLE TRIPS; RECREATION; ECONONIC
IMPACT: ENVIRONMENTAL IMPACT; SOCIAL IMPACT;
INSTITUTIONAL FACTORS; SALEM (MASSACHUSETTS);
ALEXANDRIA (VIRGINIA); ANNAPOLIS (MARYLAND);
NEWPORT (RHODE ISLAND); PLYHOUTH
(MASSACHUSETTS); MAPS
AVAILABILITY: NTIS

AVATIABILITY: NTIS

Coluston Technology Study Panel Technology Study Panel TITLE: The Heed for and Deployment of Inexhaustible Energy Resource Technologies: Report of Technology Study Panel, Inexhaustible Energy Resources Study

1977, September 1977, September
SPONSOR: Energy Research and Development
Administration
REYWORDS: EMBRGY RESOURCES; SOLAR EMBRGY; MATURAL
GAS: SPACE HEATING; TECHNOLOGY; EMBRGY
DEHAND; EMBRGY CONVERSION; COST ANALYSIS;
SUPPLY (ECONOMICS): GRAPHS (CHARTS); IMPORTS;
TABLES (DATA): SYMTHETIC PUELS; PRICES; RATES
(COSTS); COMMERCIAL SECTOR; ELECTRIC POWER;
UTILIZATION; TRANSPORTATION

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Tew, P.; Jefferies, R.; Hiao, D.
Rational Aeronautics and Space Administration,
 Lewis Research C-inter
ADDRESS: Cleveland, OH 44135
fittle: A Stirling Engine Computer Hodel for
 Performance

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

<616> Thermo Electron Corp.
ADDRESS: 101 First Avenue, Waltham, NA 02154 TITLE: Feasibility Test on Compounding the Internal Combustion Engine for Automotive Vehicles, Task II. Final Report

Report No. COO-2690-1, TE4193-76-75, 250 p. 1976

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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REYNORDS: INTERNAL COMBUSTIOF ENGINES; DIESEL
ENGINES; RANKINE CYCLE ENGINES; PERFORMANCE;
FUEL ECONOMY; TRUCKS; DESIGN; GRAPHS
(CHAPTS); DIAGRAMS; AUTOHOTIVE ENISSIONS;
FEASIBILITY; TESTING; WASTE HEAT; RECOVERY;
UTILIZATION; DEMONSTRATION
AVAILABILITY: NUTS AVAILABILITY: NTIS

Thompson, D.L.; Barth, J.; Garthner, R.; Sours, S. State University of New York, Center for Social Analysis ADDRESS: Binghauton, NY 13901 TITLE: Analysis of State and Local Taxation of American Railroads

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Report No. PB-268151, 138 p. 1977. January SPONSOR: National Science Foundation, Science and Technology Policy Office
REYWORDS: RAILROADS; RAIL TRANSPORTATION;
GOVERNMENT POLICIES: TAXES; ALLOCATIONS;
PROPERTY VALUES; STATE GOVERNMENT; REGIONAL
ANALYSIS; TABLES (DATA); LOCAL GOVERNMENT
AVAILABILITY: HTIS

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Thuillier, R.H.: Dabberdt, V.P.:
 Duffey-Armstrong, H.: Sandys, R.C.
Stanford Research Institute
ADDRESS: Henlo Park, CA 94025
TITLE: A Hethodology for Making a Quantitative
Assessment of Passenger Transportation
Alternatives

Pinal Report, 137 p.
1977, April 4
SPONSOR: U.S. Dept. of Defense, Naval Facilities
Engineering Command, Office of Naval
Research; Energy Research and Development
Administration

KRYWORDS: PASSENGER TRANSPORTATION CORDS: PASSENGER TRANSPORTATION; TRANSPORTATION MODE CHOICE; LAND USE; EMERGY CONSERVATION; AIR QUALITY; TRAFFIC: EMERGY CONSUMPTION; COMMUTERS; COSTS; HIGHWAYS; MODELS; STATISTICS; IMPUT-OUTPUT ANALYSIS;

<619> <619>
Towle, W.L.; Graze, J.E.A.; Chilenskas, A.A.;
 Ivins, R.O.
Argonne Wational Laboratory
ADDRESS: 9700 South Cass Ave., Argonne, IL 60439
TITLE: Cost Estimate for the Commercial
 Hanufacture of Lithium/Iron Sulfide Cells for
 Load-Leveling

Report No. ANL-76-12, 67 p. Report No. ANL-76-12, 67 p.
1976, March
1976, March
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REHORDS: COSTS; LITHIUH/METAL SULFIDE BATTERIES;
LOAD HANAGEHENT; UTILITIES; HANUPACTURING;
LITHIUH-ALUHINUH/METAL SULFIDE BATTERIES;
DPICTS: WOOMNICS: DISCENSES PRICES; ECONOMICS; DIAGRAMS AVAILABILITY: NTIS

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Trinc Transportation Consultants
DDRESS: Suite 4200, 475 L'enfant Plaza SW,
Washington, DC 20024
TITLE: Trinc's Blue Book of the Trucking
Industry: 1977 Edition

Thirty-Third Yearbook, annual publication, 286 p.
1977
KEYMORDS: TPUCKS; INDUSTRIAL SECTOR; FINANCIAL
DATA: STATISTICS: TABLES (DATA); NAMPOVER;
INTERCITY TRANSPORTATION; EQUIPMENT; BALANCE
SHEFTS; EXPENSES; REVENUE; REGIONAL ANALYSIS;

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Truck Trailer Hanufacturers Association
ADD**ESS: 2430 Pennsylvania Ave. NW, Washington,
DC 20037
TITLE: 1977-78 Truck Trailer Manufacturers
Association Directory

Annual publication, v.p.
1978
K PYPORDS: DIRECTORIES: HANDFACTURERS; TRUCKS;
TRAILERS; CONTAINERS

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TRW Inc., Energy Systems Planning Division ADDRESS: McLean, VA 22101
TITLE: Allocation of Matural Gas Under Energy Emergencies: Analysis of Selected Federal

Doc. To. 97461-8001-RU-00, v.p.
1978, September
SPONSOR: Oak Ridge National Laboratory
RETFORDS: GOVERNMENT POLICIES; ALLOCATIONS;
FATORAL GAS; RATIONING; EMPRGY EMERGENCY
PLANNING; PIPELIFES; EMERGY PLOW; PRODUCTION;
STATP ANALYSIS; COSTS; PORECASTING; PRICES;
FTEL SUBSTITUTION; TRANSPORTATION; PROPAME;
HINNESOTA; OHIO; TABLES (DATA)

Peport presented at the 54th Annual Meeting of the Transportation Research Board, published in Transportation Research Record 585, 60-67 1976

FYTOR DS: HANAGEMENT: FLOPIDA: TRANSPORTATION: SCHEDILING: STATE GOVERNMENT: PLANNING: DECISION MAKING

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

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

Report No. PB-267788, FHWA-PL-77013, 52 p. for Volume I; Report No. PR-267789, FHWA-PL-77014, 432 p. for Volume II 1977, February 25
SPONSOR: U.S. Dept. of Transportation, Federal Highway Adainstration
KEYWORDS: COMPARATIVE EVALUATIONS; URBAN TRANSPORTATION; TRBLES (DATA); REGIONAL ANALYSIS; SOCIO-ECONOMIC FACTORS; RAIL TRANSPORTATION: POPULATION (STATISTICS); COSTS; VEHICLE REGISTRATIONS; BOSES (VEHICLES); TRUCKS; AUTOHOBILES; HASS TRANSPORTATION; BRUSSELS; CAHADA; PARIS; HONICH (GERNAM FEDERAL REPUBLIC); UNITED KINGDON; ITALY; JAPAN; MEXICO CITY; OSLO; SPAIN; STOCKHOLH; SWITZERLAND; ATLAWTA; CHICAGO; DENVER; LOS ANGELES; MER TORK CITY; PHILADELPHIA; SAN FRANCISCO; SEATTLE; WASHINGTON DC; REPUBLIC OF KOREA

<625>
U.S. Congress
ADDRESS: Washington, DC
TITLE: Wational 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

<626> U.S. Congress ADDRESS: Washington, DC TITLE: Railroad Revitalization and Regulatory Reform Act of 1976

Public Law 94-210, 94th Congress, S. 2718, 119 p.
1976, February 5
KEYWORDS: FAIL TRANSPORTATION: RAILROADS:
INTERSTATE COMMERCE COMMISSION: REFUENUE:
GOVERNMENT POLICIES: RATES (COSTS):
FINANCING: REGULATIONS
AVAILABILITY: House and Senate Document Room,
Capitol Building, Washington, DC

C627> 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
RETMORDS: PASSENGER TRANSPORTATION; STANDARDS;
HOTOR VEHICLES; AUTOMOBILES; GOVERNMENT
POLICIES; REGULATIONS; SAFETT; EQUIPHENT;
ACCIDENTS; LEGAL ASPECTS; INSURANCE;
ODORETERS; BUMPERS
AVAILABILITY: House and Senate Document Room,
Capitol Fuilding, Washington, DC

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

Public Law 92-574, 92nd Congress, H.R. 11021 1972, October 27 KEYMORDS: MOISE POLLUTION; GOVERNMENT POLICIES; REGULATIONS; STANDARDS; COMMERCIAL SECTOR; EQUIPMENT; AIRCAPT; LEGAL ASPECTS; RAILROADS; MOTOR VEHICLES; INTERSTATE <628>
<628> CONT.
TRANSPORTATION; TRANSPORTATION
AVAILABILITY: House and Senate Document Room,
Capitol Building, Washington, DC</br>

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

Public Law 94-280, 9%th Congress, H.E. 6235, 33 p.
1976, Ray 5
KEYNORDS: INTERSTATE TRANSPORTATION; HIGHWAYS;
HIGHWAY TRANSPORTATION; CONSTRUCTION;
GOVERNMENT POLICIES; APPROPRIATIONS; TRAFFIC
COMPROL; SAPETI; RAIL TRANSPORTATION; BUSES
(VERICLES)
AVAILABILITY: House and Senate Document Room,
Capitol Building, Washington, DC

<630> J.S. Congress, Joint Committee on Taxation ADDRESS: Washington, DC TITLE: Energy Program 8: Energy Tax Proposals Relating to Transportation

Congressional Committee Print, 47 p.
1977, June 6
SPONSOR: U.S. House of Representatives, Committee
on Fays and Heans
KEIWORDS: TRANSPORTATION; LEGISLATION; TAXES;
AUTOMOBILES; ECOMONICS; GASOLINE; FUEL
CONSUMPTION; INDUSTRIES; REVENUE; EMERGY
POLICY; EMERGY CONSERVATION; TABLES (DATA);
INCOME; FUEL ECOMONY

<631> T.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
REYWORDS: ENERGY POLICY; PLANNING; LEGISLATION;

INSULAT ATTEMES

KEYWONDS: EMERGY POLICY; PLANNING; LEGISLATION;
SOCIO-ECONOMIC FACTORS; EMERGY SUPPLIES;
EMERGY DEMAND; SOCIAL IMPACT; PRICES; FOSSIL
FMELS: COAL: PETROLEUM; NATURAL GAS; MUCLEAR
EMERGY; EMERGY CONSERVATION; TABLES (DATA);
MATIONAL EMERGY PLAN
RVAILABLIATY: OPO \$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: Summary

Report No. PB-253679, OTA-T-16, 82 p.
1976, Pebruary
RETWORDS: HASS TRANSPORTATION; GOVERNMENT
POLICIES: URBAN TRANSPORTATION; URBAN ARRAS;
PLANNING: TECHNOLOGY ASSESSMENT; FINANCING;
PROTOGRAPHS; TABLES (DATA); STATE ANALYSIS
AVAILABILITY: NTIS

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

Biennial supplement to the Survey of Current Business, v.p.
1976, Hay
KEYWORDS: STATISTICS; INCOME: PRICES; FINANCIAL DATA; TRADE; CONSTRUCTION; EMPLOYMENT; INTERNATIONAL TRADE; TRANSPORTATION; ELECTRIC POWER; NATURAL GAS; PETROLEUS; COAL; TABLES (DATA); INDUSTRIES; EARWINGS
AVAILABILITY: GPO \$5.10

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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 Major TCC 3-Digit Classes

Report No. TC67-C3-2, 373 p.
1970, June
KETWORDS: TRUCKS; CARGO TRANSPORTATION;
MANUPACTURERS; INDUSTRIES; COMMODITIES;
DISTRIBUTION; TABLES (DATA); WEIGHT
AVAILABILITY: GPO \$2.75

<635> U.S. Dept. of Commerce, Bureau of the Census ADDRESS: Washington, DC TITLE: 1967 Census of Transportation. Commodity Transportation Survey - Traffic Patterns of Small Manufacturing Plants

Report No. TC67-C3-4, 39 p.
1970
1970
KEYNORDS: TFAFFIC; CENSUS; HARUFACTURING;
INDUSTRIES: COMMODITIES; REGIONAL ANALYSIS;
TABLES (DATA); CARGO TRANSPORTATION; TRUCKS
AVAILABILITI: GPO \$0.50

<636> U.S. Dept. of Connerce, 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
RESTORDS: IRREPRATIONAL TRAVEL: INTERNATIONAL

REMOORS: INTERPRITIONAL TRAVEL: INTERNATIONAL TRADE: TRAMSPORTATION; COMPODITIES: CARGO TRAMSPORTATIOM; SURVEYS: TABLES (DATA); GRAPHS (CHARTS); WEIGHT; WATER TRAMSPORTATIOM; AIR TRAMSPORTATIOM; HAPS; EXPORTS: IMPORTS; REGIONAL ANALYSIS; QUESTIONNAIRES; DISTANCE AVAILABILITT: QPO

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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

<637> CONT.
Series No. WC72-3-2, 157 p.
1975, October
RETWORDS: PERGLEUM; PETROLETH PRODUCTS; STATE ANALYSIS; STORAGE; CAPACITY; REGIONAL ANALYSIS; LIQUEPIRD PETROLETH GESTS; TABLES (DATA); STATISTICS; SALES; WHOLESALE TRADE; RETAIL TRADE; CAPITAL COSTS; TRANSPORTATION AVAILABILITY; GPO

<638>
U.S. Dept. of Commerce, Rureau of the Census, Foreign 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 810, v.p.

KEYWORDS: COAL; INTERNATIONAL TRADE: DIESEL PTELS: HARKNE TRANSPORTATION; FUEL CIL: USA; ENERGY CONSUMPTION; IMPORTS; EXPORTS; PETROLETH; TABLES (DATA); HARBORS; 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. 98-197(76)-1, 45 p.
1977, December
**ETWORDS: PETROLEUH: WATURAL GAS: REVENUE: SALES:
STATISTICS: EXPENDITURES: PRODUCTION:
ETM.ORATION: GAS WELLS: OLL WELLS: GRAPHS
(CHARTS): TABLES (DATA): SALES: LEASES:
FINANCIAL DATA: PETROLEUH INDUSTRY
AVAILABILITY: Subscriber Services Section, Bureau
of the Censue, Washington, DC 20233 \$0.70

<640>
U.S. Dept. of Commerce, Bureau of the Census, Population Division
ADDRESS: Washington, DC
TITLE: Consumer Income: Honey Income and Poverty Statum in 1975 of Pamilies 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.

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

<641> U.S. Dept. of Commerce, Industry and Trade Administration ADDRESS: Washington, DC TITLE: 1978 U.S. Industrial Outlook with 5-year Projections for 200 Industries

479 p.
1978, January
RETUGRES: INDUSTRIAL SECTOR; CONSTRUCTION
INDUSTRY: HATERIALS; CONNERCIAL SECTOR;
HABUPACTURING; FORECASTING; GROWTH; LUMBER
IPDUSTRY; PAPER INDUSTRY; HETAL INDUSTRY;

TRANSPORTATION; TABLES (DATA); GRAPHS (CHARTS); CHEMICAL INDUSTRY; MARKETING; WHOLESALE TRADE; RETAIL TRADE; HOUSEHOLD GOODS; COMMUNICATION; HACHINERY; BLECTRICAL EQUIPMENT
AVAILABILITY; GPO, Stock No. 003-008-00179-3

<642> U.S. Dept. of Conmerce, Haritime Administration, Office of Subsidy Administration ADDRESS: Washington, DC TITLE: Herchart Fleets of the World: Oceangoing Steam and Hotor Ships of 1,000 Gross Tons and Over as of December 31, 1975

Annual report, Report No. HAR-560-20, 47 p.
1976, September
REYWORDS: HARINE TRANSPORTATION; TOWNAGE;
INTERNATIONAL ANALYSIS; TANKER SHIPS; SHIPS;
CARGO TRANSPORTATION; TABLES (DATA);
INVENTORIES

<643> U.S. Dept. of Commerce, Haritime Administration, Office of Trade Studies and Statistics ADDRESS: Washington, DC TITLE: A Statistical Analysis of the World's Herchant Fleets Showing Age, Size, Speed, and Draft by Frequency Grouping as of December 31, 1976

372 p.
1977
KEYNORDS: WATER TRANSPORTATION; CARGO
TRANSPORTATION; STATISTICS; INTERNATIONAL
ANALYSIS; PASSENGER TRANSPORTATION; SELPS;
TOWNAGE; MARINE TRANSPORTATION; WEIGHT
AVAILABILIT; GPO, Stock No. 003-007-00083-9

Annual publication. v.p.
1978
.
REWMORDS: WATER TRANSPORTATION: TABLES (DATA):
STATISTICS: COHERCE: WATERWAY
TRANSPORTATION: REGIONAL ANALYSIS: STATE
AWALYSIS: TRADE: TRAPFIC: HARBORS: COASTS:
BARGES: INTERNATIONAL TRADE
AVAILABILITY: U.S. Army Engineering Division, New
England, 424 Trapelo Road, Waltham, HA 02154

<685>
U.S. Dept. of Defense, Civil Preparedness Agency
ADDRESS: Washington, DC
TITLE: Energy Energencies

Report No. CPG 1-28, v.p.
1977, January
REYNORDS: REEDGY EMERGENCY PLANNING; HEALTH;
SAPETY; SPACE HEATING; ELECTRIC POWER DEHAND;
NATURAL GAS; STATE GOVERNMENT; FUEL
CONSUMPTION; ALLOCATIONS; FUEL ECONOMY;
EMERGY CONSUMPTION; RESIDENTIAL SECTOR;
TRANSPORTATION

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cs. Dept. of Energy
D.S. Dept. of Energy
ADDRESS: Washington, DC 20585
FITLE: Electric and Hybrid Vehicle Progress:
Small Business Planning Grants

Progres Announcement No. EM-78-H-01-4205, 45 p. 1978
RETWORDS: ELECTRIC VEHICLES; MYBRID
ELECTRIC-POWERED VEHICLES; US DOE; PURDING; PLAWING; RESEARCH

(687)
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

Peport No. DOE/EDF-0018, 163 p.
1978, Harch
KEYNODDS: PLANNING; TECHNOLOGY; TRANSPORTATION;
HIGHWAY TRANSPORTATION; BLECTRIC VEHICLES;
ENGINES; HIBRID ELECTRIC-POWERED VEHICLES;
ALTERNATE FUELS; SYNTHETIC FUELS; HITIGATION;
HEALTH; SAFETY; ENVIRONMENTAL IMPACT;
DIAGRAMS; STERLING ENGINES; GAS TORBINE
ENGINES; PIPELINE TRANSPORTATION; STRATIFIED
CHARGE ENGINES; DRIVING CYCLE; FUEL
CONSTRIPTION; COMPARATIVE EVALUATIONS
AVAILABILITY; HTS

<648>
W.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Office of Business Assistance Programs
ADDRESS: Washington, DC 20545
TITLE: Voluntary Business Energy Conservation Program: Progress Report No. 6

Semi-annual report, Report No. DOE/CS-0018/6, 160 p.
1978, April
REYMORDS: INDUSTRIES; INDUSTRIAL SECTOR; ENERGY
CONSERVATION; EMERGY CONSUMPTION; AVIATION;
AUTOMOTIVE INDUSTRI; AGRICULTURE;
CONSTRUCTION INDUSTRY; EMERGY DEMAND; AIR
CONDITIONING; FUELS; GRAPHS (CHARTS)
AVAILABILITY: GPO, Stock No. 061-000-00052-6

<649> U.S. Pept. of Energy, Assistant Secretary for Conservation and Solar Applications, Transportation Programs Office ADDRESS: Washington, DC 20585 TITLE: Proceedings of the Workshop on Urban Treight Comsolidation

Report Bo. COMF-760165, Proceedings of the Workshop held January 13-18, 1976 in Knozville, TW, 187 p. 1978, June SPONSOR: U.S. Dept. of Transportation; Federal Energy Administration; Tennessee, University

RETURNS: CARGO TRANSPORTATION; PLANNING; DEHAND (ECONORICS); URBAN TRANSPORTATION; RAIL TRANSPORTATION; TAIL TRANSPORTATION; ORACLES TABLES (DATA); GRAPHS (CHARTS); WATER TRANSPORTATION; CORRODITIES; RATES (COSTS); SRIPRENTS; LAUD USS; SOCIO-SCONORIC FACTORS; SWIFTENHEAL IMPACT; GOVERNMENT POLICIES;

<650>
U.S. Dept. of Energy, Assistant Secretary for
Energy Technology
ADDRESS: Washington, DC
TITLE: Market Oriented Program Planning Study
(NOPPS). Volume 1: Integrated Summary
Review Draft, Report No. DOE/ET-0010/1(D), 399 p.
1977, December
RETEORDS: RESIDENTIAL SECTOR; COMPERCIAL SECTOR;
TRANSPORTATION: INDUSTRIAL SECTOR;
ENVIRONMENTAL IMPACT; SUPPLY (ECONOMICS);

Review Draft, Report No. DOE/ET-0010/1(D), 399 p.
1977, December
RETUORDS: RESIDENTIAL SECTOR; CONTERCIAL SECTOR;
RETUORDS: RESIDENTIAL SECTOR; CONTERCIAL SECTOR;
ENVIRONMENTAL INPACT; SUPPLY (ECONOMICS);
TABLES (DATA): TECHNOLOGY ASSESSMENT; POSSIL
FUELS; COAL; SOLAR EMERGY; ENERGY
CONSERVATION; ENERGY SUPPLIES; DEHAND
(ECONOMICS); PLANNING; HARKET; EMERGY
CONSERVATION; ENTORAL GAS; PETROLEDH; ELECTRIC
FOWER GENERATION; HEALTH; SAFETY; COMPARATIVE
EVALUATIONS; GRAPHS (CHARTS); RESEARCH;
COHHERCIALIZATION; PORRCASTING

C651>
U.S. Dept, of Energy, Assistant Secretary for Environment; U.S. Dept. of Energy, Office of Technology Impacts; U.S. Dept. of Energy, Office of Planning Coordination
ADDRESS: Washington, DC
TITLE: Environmental Development Plan (EDP):
Sumary and Status of Environmental
Development Plans, PY 1978

Report No. DOE/EDP-0025, 83 p.

1978, April

KEYWORDS: SOLAR EMEPGY; GEOTHERNAL EMPRGY; FOSSIL

FUELS; COAL GASTFICATION; EMERGY;
COMSERVATION; COAL LIQUEFACTION; TECHNOLOGY;
MAGNETOHYDRODYNAMICS; COMBUSTION; COAL;
MUCLEAR EMERGY; BIORASS; UNCONVENTIONAL

BHERGY SOURCES; PHOTOVOLTAIC COMMERSION; AIR

POLLUTION; WATER POLLUTION; BUILDINGS;
INDUSTRAL SECTOR; TRANSPORTATION; HEALTH;
SAFETY; SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL
IMPACT; ELECTRIC POWER; OCEAN THERNAL EMERGY

COMPURSION

AVAILABILITY: WITS

(652)
U.S. Dept. of Energy, Division of Transportation
Energy Conservation
ADDRESS: Washington, DC
TITLE: The Pirst Annual Report to Congress on the
Implementation of Public Law 90-813: The
Ricctric and Hybrid Vehicle Research,
Development and Demonstration Act of 1976

Report No. DOE/CS-0002/1, 78 p.
1977, December
REYPORDS: BLECTRIC VEHICLES; RESEARCH PROGRAMS;
BESEARCH: DEVELOPHENT; US DOE; GOVERNHENT
POLICIES: DERONSTRATION; INDUSTRIES
AVAILABILITY: GPO, Stock No. 061-000-00024-1

<653> U.S. Dept. of Energy, Division of Transportation Energy Conservation ADDRESS: Washington, DC 20345 TITLE: Program Planning Document: Highway Vehicle Alternative Puels Utilization Program (APUP)

Report No. DOB/CS-0029, v.p.
1976, April
RETWORDS: ALTERNATE FUELS; HIGHWAY
TRANSPORTATION; UTILIZATION; EMERGY
CONSURPTION; SYNTHETIC FUELS; FUNDING;
RESEARCH; PETROLEUN; TECHNOLOGY ASSESSMENT;

<653> CONT. 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 FUELS; UTILIZATION; US DOE;
INTERNATIONAL ANALYSIS; TRANSPORTATION;
PLANNING

<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: BLECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VERICLES; US DOE; HARRET;
DEHOOFSTRATION; UTILIZATION; ELECTRIC VEHICLE
RANGE: RESEARCH
AVAILABILITY: GPO, Stock Mo. 061-000-00171-9

<656>
U.S. Dept. of Energy, Division of Transportation
Energy Conservation, Office of Highway
Vehicle Systems
ADDRESS: Washington, DC
TITLE: Bighway Vehicle Systems Contractors
Coordination Heeting

Thirteenth Summary Report, Report No.

CONF-771037, proceedings of a conference held
October 4-6, 1977, Dearborn, Michigan, 430 p.
1978, March
RETWORDS: CONFERENCES; AUTOHOTIVE ENGINES; US
DOR; GAS TURBINE ENGINES; HEAT ENGINES; HASA;
FUEL ECONOMY; PASSENGER TRANSPORTATION; HEAT
EXCHANGERS; STIRLING ENGINES; DESIGN;
ALTERNATE FUELS; TRANSPORTATION; ENERGY
CONSERVATION; DIAGRAMS; PHOTOGRAPHS; GRAPHS
(CHARTS)

(CHARTS) AVAILABILITY: NTIS

(657)
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

10 CFR Part 500, 107 p.
REJUONDS: GASOLIEE: GOVERNHEET POLICIES:
HEAPINGS: VERICLES: ALLOCATIONS: CONSUMERS:
DIESEL PUELS: PURCHASING: AUTOHOBILES:
ECOPODIC AWALYSIS: REGULATIONS: RATIONING:
PLAFFING: SHORTAGES: STATE ARALYSIS: RHERGY
EMEPGENCY PLANNING: PUBLIC SERVICES: PRICES

<658> U.S. Dept. of Energy, Economic Regulatory Administration ADDRESS: Washington, DC TITLE: Preliminary Findings and Views Concerning the Exemption of Rerojet Puels from the Handatory Petroleum Allocation and Price Regulations

Report No. DOE/ERA-0002, 104 p.
1976, January
KNYONDS: AIR TPANSPORTATION: EMERGY DEHAND;
HISTORY; EMERGY SUPPLIES; COSTS; PETROLEUM;
TABLES (DATA); AVIATION FUELS; TURBLES;
KREOSEWE; ECCUBONIC IMPACT; IMPORTS;
DISTRIBUTION; PORECASTING; REPIMERIES;
HILITARY UTILIZATION; TRANSPORTATION;
REGULATIONS; PRICES; MARKET; ALLOCATIONS

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U.S. Dept. of Energy, Economic Regulatory
Administration, Office of Regulations and
Emergency Planning
ADDRESS: Washington, DC 20461
TITLE: Findings and Views Concerning the
Exception of Hotor Gasoline From the
Handatory Petroleum Allocation and Price
Regulations: Supplement to September 1977
Report

Report No. DOE/ERA-0012, 72 p.
1978, Hay
KEYNORDS: GASOLINE; PETROLEUR; ALLOCATIONS;
REGULATIONS; EMERGENCY ENERGY PLANNING;
GOVERNMENT POLICIES; EMERGY SHORTAGES; EMERGY
DEMAND; PRICES; EISTORY; 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.
1978, May
REFURDS: ENVIRONMENTAL IMPACT; ALLOCATIONS;
REGULATIONS; GASOLINE; GOVERNMENT POLICIES;
PRICES; VEHICLES; EMERGY POLICY; REGIONAL
ANALYSIS; WATER QUALITY; AIR QUALITY

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U.S. Dept. of Energy, Economic Regulatory Administration, Office of Regulations and Emergency Planning, Najor 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; REGIONAL ANALYSIS; FOEL
COMSUMPTION; GASOLINE; EMERGY SHURTAGES;
PRICES; REGULATIONS; PETROLEUM; ALLOCATIONS;
FORECASTING; ECONOMIC ANALYSIS; GROSS
HATIONAL PRODUCT; EMPLOYMENT; INCOME;
TRANSPORTATION

<662> U.S. Dept. of Energy, Energy Information

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AbbrEss: Washington, DC 20461
PITLE: Energy Information Administration Annual
Deport to Congress: 1977. Volume I

Report No. DOR/EIA-00036/1, 106 p.
1978, February
REYMORDS: US DOE: DATA ACQUISITION: EMERGY
SUPPLIES: EMERGY DEMAND: SYSTEMS AWALYSIS:

<663> U.S. Dept. of Energy, Energy Information Administration ADDRESS: Washington, DC TITLE: 1977 Energy Information Administration Annual Report to Congress. Volume II: Projections of Energy Supply and Demand and Their Impacts. (Also Executive Summary) (663>

Report No. DOB/EIA-0036/2 (EI SUH), 24 p.; Report No. DOB/EIA-0036/2, 296 p.

1978 1978
REFFORDS: FORECASTING; EMERGY DEHAND; EMERGY
SUPPLIES; IMPORTS; TABLES (DATA); AIR
POLLUTION; GROWTH; GRAPHS (CHARTS); HISTORY;
COMPETITION; REGULATIONS; IMTERNATIONAL
AWALTSIS; PRICES; RESIDEWIAL SECTOR;
TRANSPORTATION; COMMERCIAL SECTOR; IMPOSTRIAL
SECTOR; EMERGY COMSUMPTION; EMERGY SOURCES;
PETROLEUN; NATURAL GAS; MUCLEAR TOELS;
ELECTRIC POWER; UNCONVENTIONAL MERGY
SOURCES: AUTOMATE VIELS; ROMONIC AMALYSIS; SOURCES: ALTERNATE PUBLS; ECONORIC AMALYSIS; ECONORIC IMPACT; ENVIRONMENTAL IMPACT

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S. Dept. of Energy, Energy Information
Administration
Administration
ADDRESS: Washington, DC

TITLE: Energy Information Administration Annual
Report to Congress. Volume III: Statistics
and Trends of Energy Supply, Demand, and

Report Ro. DOB/ETA-0036/3, Volume III of 3
volumes, 145 p. YOURSE, 145 p.
1978, Hay
REYWORDS: TRANSPORTATION; STATISTICS; TABLES
(DATA); TRENDS; HISTORY; CONSUMBRS; EMERGY
CONSUMPTION; EMERGY SUPPLIES; NATURAL GAS;
PETROLEUR; FOSSIL FUELS; EXPORTS; IMPORTS;
GASOLIME; SALES; GEOGRERHAL POWER GENERATION;
SOLAR EMERGY; DIESEL FUELS; RESIDENTIAL
SECTOR; PRICES; ELECTRIC POWER; NUCLEAR
EMERGY; GRAPHS (CHARTS)
AVAILABILITY; GPO

U.S. Dept. of Energy, Energy Information Administration, Office of Energy Data and Interpretation

ADDRESS: Washington, DC 20461

TITIE: Supply, Demand, and Stocks of All Oils by P.A.D. Districts and Imports into the United States, by Country: 1977

Annual Report, Energy Data Reports (formerly Mineral Industry Surveys), 10 p. 1978, May 31 KEYPORDS: PRIROLEUM; IMPORTS; PRODUCTION; PEGIONAL ANALYSIS; PETROLEUM PRODUCTS; EMERGY DEMAND: TABLES (DATA)

<666> U.S. Dept. of Energy, Nevada Operations Office ADDRESS: Las Vegas, NV TITLE: Driver Aid and Education Test Project. Final Report

Report No. DOB/CS-0043, v.p. Report No. DOE/CS-0043, v.p.
1978, July
SPOMSOR: U.S. Dept. of Reergy, Division of
Transportation Energy Conservation
KETWORDS: AUTOMOBILE DRIVERS; EDUCATION;
AUTOMOTIVE PUBLS; FUEL ECONOMY; AUTOMOBILES;
TRUCKS; TESTING: REASONING INSTRUMENTS;
DRIVING CYCLE; PREDBACK; TABLES (DATA);
GRAPHS (CHARTS); HORTHLY VARIATIONS
AVAILABILITY: ETIS

<667> U.S. Dept. of Energy, Office of Public Affairs ADDRESS: Washington, DC 20461 TITLE: DOE Proposes Emergency Gasoline Rationing

Department of Energy Information Press Release, R-78-219, 8 p. 1978, June 22 REYNORDS: RATIONING; HEARINGS; EMERGY POLICY;
GASOLINE; ALLOCATIONS; SALES; HARRETING;
VEHICLES; PETROLEUN; GOVERNMENT POLICIES;
AUTOHOBILES; PUBLIC SERVICES; COMSUMERS;
PLANNING; EMERGY POLICY AND CONSERVATION ACT;
EMERGY EMERGENCY PLANNING

<668> U.S. Dept. of Energy, Office of the Under Secretary, Task Force on Alcohol Fuels ADDRESS: Washington, DC 20545 TITLE: Alcohol Fuels Program Plan

Report No. DOE/US-0001/2, v.p. Report No. DOB/US-UDU1/2, v.p.
1978, March
KETHORDS: ALCOHOLS; ETHANOL; HETHANOL; LIQUID
PUBLS; ALTERNATE PUBLS; SOCIO-ECONONIC
PACTORS; INDUSTRIAL SECTOR; PRICES; ECONONIC
ANALYSIS; EMBRGY RESOURCES; PETROLEUM; EMBRGY
EMBRGENCY PLANNING; COAL; BIOTASS; SOLID
WASTES; PLANNING; UTILIZATION; RESEARCH;
PEUTINDERMIAL INDUCT. TABLES (DATA) ENVIRUNMENTAL IMPACT: TABLES (DATA)
AVAILABILITY: GPO, Stock No. 061-000-00064-0

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Secretary, Task Force on Alcohol Fuels
ADDRESS: Washington, DC 20545
TITLE: Department of Energy Position Paper on

Report No. DOE/US-0001/1, v.p.
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KEYFORDS: ALCOROL PUBLS; ALTERNATE FUBLS; US DOE; ETHANOL; HETHANOL; COMMERCIALIZATION; PRODUCTION; FUEL CONSUMPTION; COSTS; UTILIZATION; PLANNING; RESEARCH; GOVERNMENT POLICIES

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Annual report, 1550 p. RETWORDS: HINERALS; STATISTICS; TABLES (DATA):

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HETALS: POSSIL PUBLS: PRODUCTION: HINING: RTTRACTION: INDUSTRIES: COAL: NATURAL GAS; PETPOLEM PRODUCTS: URANUM: STATE ANALYSIS: REGIONAL ANALYSIS: INTERNATIONAL TRADE AVAILABILITY: GPO, Stock No. 024-004-01922-1

C677> D.S. Dept. of Interior, Bureau of Hines ADDRESS: Washington, DC TITLE: Minerals in the U.S. Economy: Ten-Year Supply-Demand Profiles for Mineral and Puel Commodities (1966-75)

RETFORDS: HIMERALS; PUELS; RESOURCES; TABLES
(DATA); SUPPLY (ECOMONICS); DEBAND
(ECOMONICS); HETALS; EMERGY SUPPLIES;
COMMODITES; TABLES (DATA); EMERGY SOURCES AVAILABILITY: GPO

< 6725 T.S. Dept. of Interior, Bureau of Hines ADDRESS: Washington, DC TITLE: Status of the Hineral Industries: 1977

1977
KEYWORDS: HINEBALS; INDUSTRIES; HIMING; HETALS;
GRAPHS (CHARTS); STEELS; PRODUCTION;
ALUMINUS; TRANSPORTATION; ECOMONICS;
PETROLEDN REPRINTING; IMPORTS; EXPORTS;
INTERNATIONAL TRADE; COMSTRUCTION MATERIALS;
EN PROY RESOURCES; COAL; PETROLEUN; NUCLEAR
TUELS; NATURAL GAS; URANIUN; IRON;
RECLANATION; PLASTICS

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ADDRESS: Washington, DC 20241
TITLE: Hineral Industry Surveys: Petroleum
Refineries in the United States and Puerto Rico, January 1, 1977

Ranuel report, 17 p.
1977, July 18
KEYWORDS: PETROLEUH; PUERTO RICO; PETROLEUH
RRFIRERIES; PRODUCTION; CAPACIFT;
DISTILLATION; REGIONAL ANALYSIS; TABLES
(DATA); CONSTRUCTION; STATE ANALYSIS

<674> U.S. Dept. of Transportation ADDRESS: Washington, DC TITLE: U.S. Dept. of Transportation Fiscal Year 1979 Budget in Brief

18 p.
1978, January
RETWORDS: BUDGETS; GOVERNMENT POLICIES;
TRANSPORTATION; TABLES (DATA): BAIL
TRANSPORTATION: HIGHWAY TRANSPORTATION; AIR
TRANSPORTATION: LEGISLATION; SAPETY; URBAN
TRANSPORTATION; HASS TRANSPORTATION

<675> 7.5. Pept. of Transportation ADDRESS: Washington, DC 20590 TITLE: U.S. Department of Transportation. 10th Annual Report: Piscal Year 1976 Annual Report for Fiscal Year 1976, 97 p. 1978
KEYHORDS: US DOT; TRANSPORTATION; TABLES (DATA);
WATEP TRANSPORTATION; AIR TRANSPORTATION;
RAIL TRANSPORTATION; HIGHWAY TRANSPORTATION;
HASS TRANSPORTATION; HATERIALS; SAFETY; RAILROADS AVAILABILITY: GPO, Stock No. 500-000-00137-7

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U.S. Dept. of Transportation; U.S. Environmental Protection Agency
ADDRESS: Washington, DC
TITLE: Study of Potential for Motor Vehicle Puel Economy Improvement; Fuel Economy Test
Procedures Panel Report

Report No. 6, 75 p.
1975, January 10
KEYWORDS: FUEL ECOMONI; HOTOR VEHICLES; FUEL
COMSUMPTION; TESTING; TABLES (DATA);
AUTOMOBILE TRANSMISSIONS; 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 Motor Vehicle Puel Economy Improvement: Safety Implications Panel Report

Report No. 2, 45 p.
1975, January 10
KEYWORDS: FUEL ECONOMY; WEIGHT; SPEED LIMITS; ORDS: FUEL ECONOMI; WEIGHT; SPEED LIMITS; SAPETT; AUTOMOBILES; TRANSPORTATION; STATISTICS; TABLES (DATA); URBAN AREAS; INJURIES; STATE ANALYSIS; HISTORY; SALES; MANUPACTURERS; RUBAL AREAS; AUTOMOTIVE ENGINES; TRAPPIC CONTROL; ACCIDENTS; PERFORMANCE; DRIVING CYCLE

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Report No. 3, 54 p.
1975, January 10
KEYWORDS: FUEL ECOBOHY: HILEAGE; AUTOHOTIVE
BRISSIONS; AIR QUALITY: DIESEL ENGINES;
TABLES (DATA); TRUCKS; FORECASTING; GROWTH;
HYDROCABOHS; CARBON HOOKIDE; NITROGEN
OKIDES; AUTOHOBILES; HISTORY; GASOLINE;
HODELS; TRANSPORTATION

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U.S. Dept. of Transportation, Coast Guard
ADDRESS: Washington, DC 20590
TITLE: Boating Statistics: 1977

Fineteenth annual report, Report No. CG-357, 41 p. 1978, Hey 1 RETRORDS: BOATS; SAPETY; ACCIDENTS; STATE AWALTSIS; TABLES (DATA)

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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; MARINE
TRANSPORTATION; INTERNATIONAL TRADE;
PETROLEUM; TANKER SHIPS; WATER POLLUTION;
ENVIRONMENTAL IMPACT; CONSTRUCTION; DESIGN;
ECONOMIC IMPACT

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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; EPPICIENCY
AVAILABILITY: WIIS

<683> U.S. Dept. of Transportation, Pederal Aviation Administration, Office of Aviation Policy ADDRESS: Washington, DC 20591 TITLE: Aviation Porecasts - Fiscal Years 1978-1989

Report No. PAA-AVP-77-32, 169 p.
1977, September
REYWORDS: FORBCASTING: AVEATION: STATISTICS:
AIRCRAFT: SOCIO-BCONORIC FACTORS: CONNUTING:
BCONORITRIC RODELS: AIR TRANSPORTATION:
PHOTOGRAPHS: REGIONAL ANALYSIS: REVENUE:
PASSENGER TRANSPORTATION: CARGO
TRANSPORTATION: TABLES (DATA): GRAPHS
(CHARTS): HATHEMATICAL HODELS: AIRPORTS

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U.S. Dept. of Transportation, Pederal Aviation
 Administration, Office of Aviation Policy
ADDRESS: Washington, DC 2059!
TITLE: Terminal Area Porecast - 1978-1988
Report Ro. PAR-AVP-77-17, v.p.
1977, April 8

KETWORDS: PORECASTING; PASSENGER ENPLANEMENTS; AIRPORTS; HAPS; RECIONAL ANALYSIS; TABLES (DATA); GROWTH; AIR TRANSPORTATION; AVIATION AVAILABILITY: NTIS

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U.S. Dept. of Transportation, Federal Aviation Administration, 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
KEYNORDS: FORECASTING; AIR TRANSPORTATION; FEDERAL AVIATION ADMINISTRATION; PLANNING; STATE GOVERNMENT; LOCAL GOVERNMENT; CONMUTERS; CONFERENCES

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U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy, Aviation Forecast Branch ADDRESS: Washington, DC 20591
TITLE: Profiles of International Passengers at U.S. Airports, 1976

Report No. PAR-AVP-77-27, 319 p.
1977, April
KEYNORDS: AIRPORTS; INTERNATIONAL TRAVEL;
PASSENGER TRANSPORTATION; AIR TRANSPORTATION;
TABLES (DATA); GRAPHS (CHARTS); PASSENGER
ENPLANMENTS; REGIONAL ANALYSIS

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U.S. Dept. of Transportation, Federal Aviation Administration, Office of Management Systems, Information and Statistics Division ADDRESS: Washington, DC 20591
TITLE: Current Aviation Statistics: Air Traffic Activity, Piscal Year 1976

Report No. AD-A032605, 22 p.
1976, Movember
KEYBORDS: AIR TRANSPORTATION; STATISTICS; TABLES
(DATA); TRAPPIC; AIRPORTS; AIRCRAFT; SERVICES
AVAILABILITY: NTIS

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U.S. Dept. of Transportation, Pederal Highway Administration
ADDRESS: Weakington, DC
TITLE: Highway Statistics, Sussary to 1975
Report No. PB-273520, PHWA-HP-HS-S75, 294 p.

Report No. PB-273520, PHWA-HP-HS-575, 294 p.
1977
RETWORDS: HIGHWAY TRANSPORTATION; STATISTICS;
HISTORY: UTLLILATION: PYMANCING; PUBLS;
VBHICLES; LICEWSING; AUTOHOBILE DRIVERS;
TAXES; STATE GOVERNMENT; VERICLE
REGISTRATIONS; TRAVEL; LOCAL GOVERNMENT;
TABLES (DATA)
AVAILABILITY; WITS; GPO, Stock No. 050-001-00129-2

<669> U.S. Dept. of Transportation, Federal Highway Administration ADDRSS: Washington, DC <689> COFT.
TITLE: Computer Programs for Orban Transportation Planning: PLANPAC/BACKPAC. General Information Hanual

A50 p.
1977, April
RETWORDS: COMPUTER PROGRAMS; URBAN
TRANSPORTATION; PLANNING; IMPORMATION; LAND
USE; VERICLE TRIPS; TRAFFIC; SINULATION;
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
TITLE: Mationwide Personal Transportation Study: Transportation Characteristics of School Children

Report No. 4, 32 p.
1975, July
REYWORDS: TRANSPORTATION; TRAVEL; TRAVEL TIME;
MILEAGE; SCHOOLS; CHILDREN; BDSES (VERICLES);
BICYCLES; PUBLIC TRANSPORTATION; SURVETS;
PASSENGER TRANSPORTATION; STATISTICS; TABLES
(DATA); VEHICLE HILES TRAVELED; DISTANCE; AGE

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ADDRESS: Feabington, DC
TITLE: Pationwide Personal Transportation Study:
Wood of Transportation and Personal
Characteristics of Tripmakers

Report No. 9, 49 p.
1973, November
REYWORDS: TRAVEL; PUBLIC TRANSPORTATION; NOTOR
VEHICLES; TRANSPORTATION HODE CHOICE;
PASSE-GR TRANSPORTATION; AGE GROUPS;
SURVEYS; CENSUS; AIR TRANSPORTATION; TRUCKS;
VEHICLE HILES TRAVELED; DISTANCE;
SOCIO-ECONOMIC FACTORS; TABLES (DATA)
AVAILABILITY; GPO

<692> J.S. Dept. of Transportation, Federal Highway Administration ADDRESS: Washington, DC TITLE: Highway Statistics: 1976

Peport No. PHTA-HP-HS-76, 161 p.
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KEYMORDS: HIGHWAYS; STATISTICS; HIGHWAY
TRANSPORTATION; VEHICLES: LICENSES;
ANTONOTIVE FUELS: FUEL CONSUMPTION: TAXES;
STATE GOVERNMENT; VEHICLE REGISTRATIONS;
REVENUE: RATES (COSTS); TRAVEL; VELOCITY;
SPEED LINITS; FINANCING; 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
KEYHORDS: RAIL TRANSPORTATION; PASSENGER
TRANSPORTATION; BORTHEASTERN 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
RETPORDS: BAIL TRANSPORTATION; RAILROADS;
ELECTRIC VEHICLES; CAPITAL; EUROPE; JAPAN;
RAILROADS; MILEAGE; GOVERNMENT POLICIES;
ELECTRIC POWER; ELECTRIC RAIL SYSTEMS

<695> U.S. Dept. of Transportation, National Highway Traffic Safety Administration ADDRESS: Washington, DC 20590 TITLE: Automotive Fuel Economy Program: Second Annual Report to the Congress

Report No. DOT-HS-803207, 45 p.
1972, January
KEYWORDS: AUTONOTIVE PUBLS; FMEL ECONOMY;
REGULATIONS; PASSENGER TRAMSPORTATION;
HATIONAL ENERGY PLAN; HARUFACTUBERS; EKERGY
COMSUMPTION; PETROLEUM; STAMBARDS; RESEARCH
PROGRAMS; VERICLE HILES TRAVBLED; HILEAGL.
GOVERNMENT POLICIES; GASOLIME

<696> U.S. Dept. of Transportation, National Highway Traffic Safety Administration ADDRESS: Washington, DC 20590 TITLE: Applicability of Federal Hotor Vehicles Standards to Electric and Hybrid Vehicles

Report No. DOT-HS-802611, 36 p.
1978, January
KEWNORDS: HOTOR VEHICLES; SAFETY; STANDARDS;
PERFORMANCE; ELECTRIC VEHICLES; PASSENGER
TRANSPORTATION; TESTING; ACCELERATION: HYBRID
ELECTRIC-POWERED VEHICLES; PUSES (VEHICLES);
TRUCKS; COSTS

(697)
U.S. Dept. of Transportation, National Righway Traffic Safety Administration, Office of Passenger Vehicle Research, Technology Assessment Division
ADDRESS: Washington, DC 20590
TITLE: Automotive Fuel Economy Contractors' Coordination Reeting: Summary Report

Report No. DOT-HS-803362, Summary Report of the Automotive Fuel Economy Research and Analysis Frogram Contractors' Coordination Heeting held in Washington, DC, April 24-26, 1978, 899 p.

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KRYWORDS: FUEL ECONOMY; PUEL CONSUMPTION;
HEETINGS; STANDARDS: TRANSPORTATION;
EFFICIENCY: RESEARCH PROGRAMS: DATA
COLLECTION; STATISTICS; TECHNOLOGY;
ENGINEERING; HANDFACTURING; HARRETING;
GOVERNMENT POLICIES; DIESEL ENGINES; SPARK
IGNUITION ENGINES; AUTOHOTIVE TRANSMISSIONS;
CONSUMERS; HAINTENANCE; VEHICLES; TESTING;

6 1 p.

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LUBBICABTS; DEHAND (ECONOMICS); ECONOMIC
MODELS; FORECASTING; TABLES (DATA); GRAPHS
(CHARTS); PROTOGRAPHS; WRIGHT; COSTS;
AUTOMOTIVE INDUSTRY; BEHAVIOR; ENVIRONMENTAL
PROTECTION AGENCY

<698> U.S. Dept. of Transportation, Mational Highway Traffic Safety Administration, Technical Beference Division ADDRESS: Washington, DC 20590 TITLE: Twel Econey ... A Subject Bibliography from Highway Safety Literature

Report No. PB-265387, DOT RS-802 147, v.p.
1977, January
KEYWOODS: BIELLOGRAPHIES; HIGHWAY TRANSPORTATION;
PUBL RCONOMY; BRENCY CONSERVATION;
PERFORMANCE; PASSENGER TRANSPORTATION;
TRUCKS; GASOLINE; PUBL CONSUMPTION;
AUTOMOTIVE EMISSIONS; GOVERNMENT POLICIES;
BEGULATIONS; AUTOMOBILES; ENGINES; SAFETY
AVAILABILITY: HTIS

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U.S. Dept. of Transportation, Office of the Secretary ADDRSS: Washington, DC
TITLE: The Status of the Mation's Highways: Conditions and Performance. Report of the Secretary of Transportation to the United States Congress, Parsuant to Section 3, Public Law 89-139

Congressional Committee Print No. 95-29, 483 p. 1977, September
SPOMSOR: U.S. House of Representatives, Committee on Public Works and Transportation
RETWORDS: HIGHWAYS; TRAVEL: PERFORMANCE;
INVESTMENTS: BBGIOWAL AWALYSIS; FORECASTING;
TABLES (DATA); GRAPHS (CHARTS)

<700> U.S. Dept. of Transportation, Office of the Secretary ADDRESS: Washington, DC TITLE: 1974 Hational Transportation Study. Hanual I: General Information

Report No. OHB-04-S-72004, 66 p.
1972, Hay
KEYNOR DS: TRANSPORTATION; STATE AWALTSIS;
SUPVEYS; PLANNING; ORGANIZATIONS; STATE
GOVERNHENT; ALMPORTS; HIGHWAYS;
TPAMSPORTATION SISTEMS; GOVERNERNT POLICIES;
EPPICIENCY; SAPETY; ENVIRONMENTAL IMPACT;
TABLES (DATA)

<701>
U.S. Dept. of Transportation, Office of Transportation Plansing Analysis ADDRESS: Washington, DC TITLE: Catalog of Tabulations: 1979 Fational Transportation Study

V.D.
1975, Pebruary
RETWORDS: TRAESPORTATION; STATE ANALYSIS; TABLES
(DATA); DRBAN TRAESPORTATION; CAPITAL COSTS;
GROWTH; BIGHWAYS; BUSES (VEHICLES); ARPORTS;
RAIL TRAESPORTATION; CONSUTERS; VEHICLE SILES
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<702> U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office ADDRBSS: Kendall Square, Cambridge, NA 02142 TITLE: Rural Passenger Transportation: State-of-the-Art Overview

Y-P1976, October
REYWORDS: ELDERLY; RURAL TRANSPORTATION;
REYWORDS: ELDERLY; RURAL TRANSPORTATION;
PASSENGER TRANSPORTATION; POVERTY; RURAL
ARBAS; POPULATION (STATISTICS); OWNERSHIP;
TABLES (DATA); SOCIO-ECOMOMIC FACTORS;
REGIONAL ANALYSIS; PUBLIC TRANSPORTATION;
AUTOHOBILES; HOBILITY; TRANSPORTATION
SISTEMS: 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
SPONGOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R & D Policy; U.S.
Dept. of Transportation, Urban Mass
Transportation Administration
RETWOODS: LIGHT RAIL TRANSIT; PASSENGER
TRANSPORTATION; URBAN TRANSPORTATION;
COMPARATIVE EVALUATIONS; REGIONAL AWALYSIS;
CAWADA; RIGHT-OF-WN; TABLES (DATA); MAPS

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
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R 5 D Policy
KEYMORDS: RURAL TRANSPORTATION; REGIONAL
ANALYSIS: POWERTY: HINMESORA; SOUTH CAROLINA:
PASSENGER TRANSPORTATION; PLANNING:
PENNSILVANIA; ELDERLY; BIBLIOGRAPHIES; STATE
ANALYSIS: TRANSPORTATION DISADVANTAGED

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 Systems Center, Technology Sharing Program
Office
ADDRESS: Kendall Square, Cambridge, NA 02142
TITLE: Hini-bus Profile

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SPONSOR: U.S. Dept. of Transportation, Office of
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REFWORDS: BUSES (VERICLES); PASSENGER
TRANSPORTATION; ENGINES; TABLES (DATA);
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MANUFACTURERS; FUEL CONSUMPTION; PERFORMANCE

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Gausse Cambridge, MA 02182

Division
ADDVESS: Rendall Square, Cambridge, NA 02142
PITUE: Transportation Safety Information Report:
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Annual Summary

Quarterly Report, Report No. HTISUB/C/224-004, DOT-TSC-924-77-4, 113 p.

DOT**15C**2**** / 113 P.
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SPCHSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans, and
International Affairs
KEYMORDS: TRANSPORTATION: SAPETY: ACCIDENTS:

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Systems Center, Transportation Information
Divison
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Divison
ADDRES: Rendall Square, Cambridge, NA 02142
TITLE: Profiles of Scheduled Air Carrier
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August 6, 1976

Report No. FAR-AVP-77-30, 207 p.
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Aviation Administration, Office of Aviation
Policy, Aviation Porecast Branch
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PASSENGER TRANSPORTATION: AIRPORTS: TABLES
('AATA): GRAPHS (CHARTS): PASSENGER
FFIAMEMENTS: SERVICES

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U.S. Dept. of Transportation, Urban Hass
Transportation Administration
ADDRESS: Washington, DC 20590
TITLE: Trban Hass Transportation Act of 1964 and
Related Laws, as Amended Through Pebruary 5,
1976

131 p.
FEYWORDS: URBAN TRANSPORTATION; HASS
TRANSPORTATION; LEGISLATION; GOVERNHENT
POLICIES; REGULATIONS
AVAILABILITY: GPO, Stock No.
050-014-00007-0/Catalog No. TD 7.5:UR1/3

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Transportation Administration, Office of
Technology Development and Deployment, Office
of ACT 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, HA 02182
TITLE: People Rover Profiles

35 p.
1977, Hay
KETWORDS: PASSENGER TRANSPORTATION; URBAN AREAS;
PHOTOGRAPHS; DERONSTRATION; OPERATION;
PERFORMANCE; AUTORATED GUIDBRAY TRANSIT
AVAILABILITY: GPO

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REYWORDS: RAIL TRANSPORTATION; CAPITAL COSTS;
ENERGY CONSUMPTION; RAPID TRANSIT SYSTEMS;
GROWTH; GOVERNMENT POLICIES; REGIONAL
ANALYSIS; US DOT; MAINTENANCE; RETROFITTING;
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RETWORDS: HOTORCYCLES; DYNAHOHETERS; EMISSIONS;
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REWORDS: SURVEYS; UTILIZATION; HOTORCYCLES;
SIZE: TRANSPORTATION; EMISSIONS; CONNUTING;
VEHICLE TRIPS; VELOCITY; TABLES (DATA);
INFORMATION HEEDS
AVAILABILITY: WITS

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COAL: RESEARCH; MUCLEAR EMERGY; MUCLEAR
REACTOR SAFETY; SOLAR EMERGY;

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ADDPESS: Washington, DC
TITLE: Pegulation of Domestic Crude Oil Prices

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KEYWORDS: REGULATIONS; PETROLEUM; PRICES;
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PRODUCTION: TABLES (DATA): GRAPHS (CHARTS);
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AVAILABILITY: U.S. Senate Committee on Energy and Matural Resources

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<721> U.S. Senate, Committee on Governmental Affairs ADDRESS: Washington, DC TITLE: Department of Energy Organization Act

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POWER COMMISSION; EMERGY COMSERVATION;
REGULATIONS
AVAILABILITY: GPO

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ADDRESS: Suite 450, 1100 Connecticut Ave. HW, Washington, DC 20036
TITLE: 1976 National Travel Survey: Full Year Report

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KEYWORDS: TRAVEL; SURVEYS; TABLES (DATA);
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TRANSPORTATION; REGIONAL ANALYSIS; VEHICLE
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AVAILABILITY: \$20.00

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TRAVEL: ALF TRANSPORTATION: RECREATIONAL
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TITLE: Survey of State Travel Officea: 1977-1978
Annual Peport, 82 p.
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REYMORDS: TRAVEL: TOURISH: STATE ANALYSIS; PUBLIC RELATIONS

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TITLE: 1976 Wational Travel Expenditure Study:
Summary Report

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TABLES (DATA); PAYROLLS; ECONOMIC INDACT AVAILABILITY: 815.00

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COMPARATIVE EVALUATIONS: TABLES (DATA): OILS:
PRINCIPUM REPLINED
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Hetcalf, B.; Micol, J.; Parry, J.; Stratton,
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ADDRESS: 25 Acorn Park, Cambridge, HA 02180
TITLE: Recommended Performance Standards for

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RETWORDS: ELECTRIC VEHICLES: HTERID
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STANDARDS: RESEARCH; QUESTIONNAIRES; SURVEYS;
TABLES (DATA): GRAPHS (CHARTS)

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ADDRESS: Schenectady, NY 12308
TITLE: Fourth National Conference on the "Effects of Energy Constraints on Transportation"

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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
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Inc.
ADDRESS: PTI, 1140 Connecticut Ave HW,
Washington, DC 20036
TITLE: Urban Goods Howesent
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KEYWORDS: COMMODITIES; CARGO TRANSPORTATION;
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AVAILABILITY: HTIS

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ADDRESS; PTI, 1140 Connecticut Ave. HW,
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TITLE: Asphalt Improvements
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AVAILABILITY: Rhode Island Dept. of
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Office Building, Providence, RI 02903

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ADDRESS: Columbus, OH
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ADDRESS: Germany
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RETHORDS: STIRLING ENGINES: PERFORMANCE: PUBL
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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Varrendele, PA
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Yelona, W.D.
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ADDRESS: Vashington, DC 20590
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Energy Pessarch Institute; International
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ADDRESS: MU, Coral Gables, FL 33124
TITLE: First World Hydrogen Energy Conference.
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COAL: THERMOCHEMICAL PROCESSES; GRAPHS (CHAPTS); BLECTROLYSIS; TRANSMISSION; HYDROGEN STORAGF; VENICLES; ALTERNATE PUBLS; TRANSPORTATION: HYDRIDES; MATERNALE FUELS;
TRANSPORTATION: HYDRIDES; MATERIALS;
OTILIZATION; AIRCRAPT; AUTOHOBILES;
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COMMERCIAL SECTOR; ECONOMICS
AVAILABILITY: School of Continuing Studies, P.O.

Box 248005, University of Riami, Coral Gables, FL 33124 \$75.00 (while the supply

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ADDRESS: Paulsboro, NJ 08066
TITLE: Development Studies on Conversion of Hethanol and Related Oxygenates to Gasoline

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PORDS: HETHANOL; GASOLINE; CONVERSION;
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FACTORS; PLANKING; PORBCASTING; REASUREMENT;
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TRIPS; RECREATION; COMPUTERIZED SIMULATION;
POPULATION (STATISTICS); EMPLOYMENT
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Highway Research Board, 2101 Constitution
Ave. NV, Washington, DC 20418 \$3.20

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ADDRESS: 7798 Old Springhouse Rd., Westgate
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TITLE: Study of Future Paratransit Pequirements Report No. PB-264082, UNTA-IT-06-0104-77-2, 266 p. 1977, January SPONSOR: U.S. Dept. of Transportation, Urban Hass

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ADDRESS: Box 4348, Chicago, IL 60680
TITLE: Per Passenger-Hile Energy Consumption and Costs for Suburban Commuter Service Diesel

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Champion Spark Plug Co.
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Program Summary: FY 1977

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ADDRESS: Detroit, HI
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IDDRESS: 730% Broxburn Ct., Bethesda, HD 2003%
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Pennsylvania, University of, Dept. of Civil and
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Regional Plan Association
ADDRESS: New York, WY
TITLE: Where Express Buses Work

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Foundation: Rockefeller Foundation
KETWORUS: RESIDENTIAL SECTOR: WEBBH ARRAS;
COMBUTERS: BUSES (VENICLES): PARKING;
PASSENGER TRANSPORTATION: COSTS
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
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\$2.20 for Transportation Research Record 626

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National Academy of Sciences, National Research
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ADDRESS: 2101 Constitution Avenue NW, Washington,
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TITLE: Transit Planning and Operations

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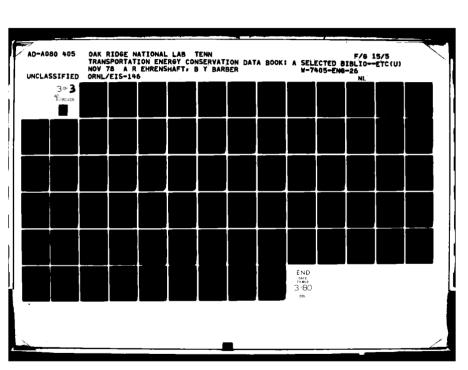
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