

# **Transportation Services in Rural Areas**

**January 1980 - June 1993**

**Quick Bibliography Series: QB 94-02**

**Updates QB 91-124**

**209 citations in English from AGRICOLA**

**Patricia La Calle John  
Rural Information Center**



## **National Agricultural Library Cataloging Record:**

John, Patricia La Caille

Transportation services in rural areas.

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1. Rural transportation--Bibliography. I. Title.

aZ5071.N3 no.94-02

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# Rural Information Center

National Agricultural Library  
U.S. Department of Agriculture  
Beltsville, Maryland 20705

The **Rural Information Center (RIC)** is a joint project of the Extension Service and the National Agricultural Library (NAL). RIC provides information and referral services to local government officials, community organizations, health professionals and organizations, cooperatives, libraries, businesses, and rural citizens working to maintain the vitality of America's rural areas. The Center combines the technical, subject-matter expertise of Extension's nationwide educational network with the information specialists and resources of the world's foremost agricultural library.

The Office of Rural Health Policy in the Department of Health and Human Services (DHHS) and the NAL jointly created a Rural Information Center Health Service (RICHS) as part of the RIC. RICHS collects and disseminates information on rural health issues, research findings related to rural health, and innovative approaches to the delivery of rural health care services.

## SERVICES:

**Provide** customized information products to specific inquiries including assistance in economic revitalization issues; local government planning projects; rural health issues; funding sources; and other related issues for the purpose of monitoring the quality of rural life.

**Process** a broad array of general and funding information requests on such topics as:

- Successful strategies, models, and case studies of community development projects
- Small business attraction, retention, and expansion
- Tourism promotion and development
- Recycling programs
- Community water quality
- Technology transfer to rural areas
- Closures, restructuring and diversification of rural hospital and clinics
- Agricultural health and safety
- Health programs, services, personnel issues
- State initiatives concerning rural health delivery issues

**Refer** users to organizations or experts in the field who can provide additional information.

**Perform** brief database searches of requested topics on a complimentary basis.

**Furnish** bibliographies and Rural Information Center Publication Series titles.

**Identify** current USDA and DHHS research and Cooperative Extension Systems programs.

## ACCESS:

\*Telephone

1-800-633-7701 (nationwide) or 1-301-504-5547

\*Mail

Rural Information Center  
National Agricultural Library, Room 304  
Beltsville, MD 20705-2351

\*Electronic Mail through INTERNET (RIC@NALUSDA.GOV)

\*NAL Bulletin Board (RIC/RICHS Conference) 1-301-504-6510

## Quick Bibliography Series



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The following materials are not available for loan: serials (except USDA serials); rare, reference, and reserve books; microforms; and proceedings of conferences or symposia. Photocopy or microform of non-circulating publications may be purchased as described below.

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EASYLINK.....	62031265
ONTYME.....	NAL/LB
TWX/TELEX.....	Number is 710-828-0506 NAL LEND. This number may only be used for ILL requests.
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Interlibrary Loan Department  
Agriculture University  
Heartland, IA 56789

Dr. Smith Faculty Ag School

Canadian Journal of Soil Science 1988 v 68(1): 17-27  
DeJong, R. Comparison of two soil-water models under semi-arid growing conditions

Ver: AGRICOLA

Remarks: Not available at IU or in region.

NAL CA: 56.8 C162

Auth: C. Johnson CCL Maxcost: \$15.00

MORE

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6. Include NAL call number if available.

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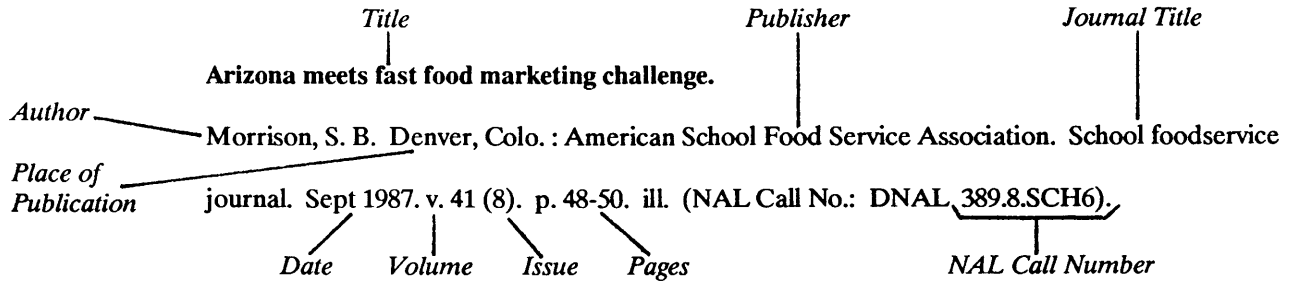
## **AGRICOLA**

Citations in this bibliography were  
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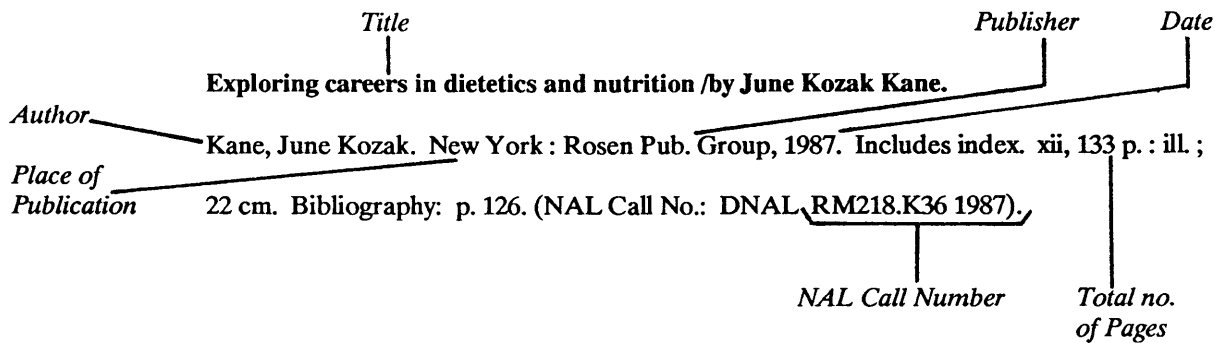
## SAMPLE CITATIONS

Citations in this bibliography are from the National Agricultural Library's AGRICOLA database. An explanation of sample journal article, book, and audiovisual citations appears below.

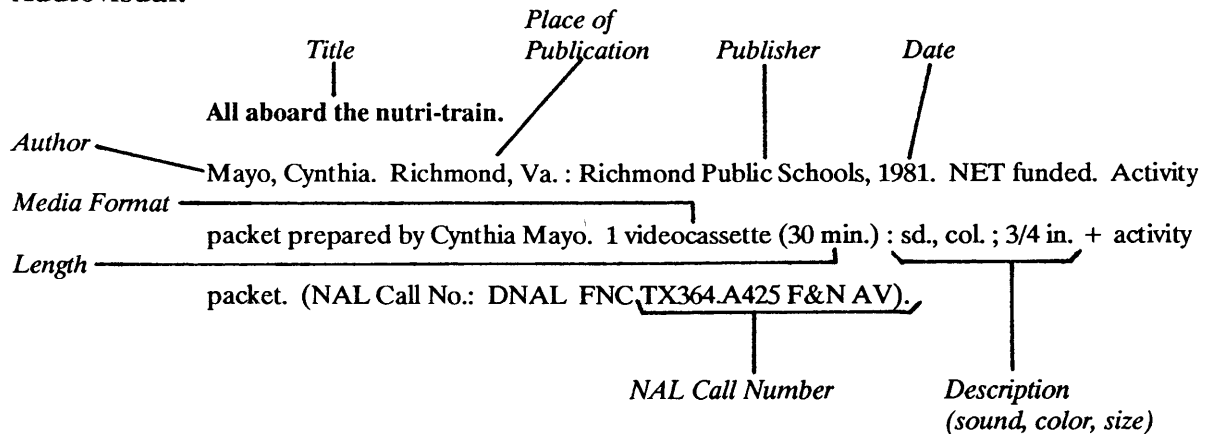
### Journal Article:



### Book:



### Audiovisual:





## Transportation Services in Rural Areas

### TRANSPORTATION SERVICES IN RURAL AREAS

#### *SEARCH STRATEGY*

##### Line Command

1. ss (rural or nonmetro? or local or county or counties)/ti,de,eng
2. ss (transportation or transit or highway? or road or roads or bridge?)/ti,de,eng
3. ss (bus or airline? or airplane? or airport? or air()service?)/ti,de,eng
4. ss (railroad? or railway?)/ti,de,eng
5. ss (s2 or s3 or s4)
6. ss (s1 and s5)
7. ss (s6 not flood? not water? not national()forest? not plan not interpretive()map? not mine? not fresh()fruit? not coal not wilderness not aquifer?)/ti,de
8. ss (s7 not stream? not geolog? not drilling? not transmission? not India not Ghana not Soviet? not Nigeria? not developing()countr?)/ti,de
9. ss ((py = 1980:1983) or (py = 1984:1987))
10. ss py = 1988:1993
11. ss s8 and (s9 or s10)

## Quick Bibliography Series

## Transportation Services in Rural Areas

**1** NAL Call No: KF27.A343 1980  
**Agricultural subterminal facilities act of 1979 and Rural Transportation Advisory Task Force report : hearing before the Subcommittee on Family Farms, Rural Development, and Special Studies of the Committee on Agriculture, House of Representatives, Ninety-sixth Congress, second session, on H.R. 2968, April 23, 1980.**  
United States Congress House Committee on Agriculture Subcommittee on Family Farms, Rural Development, and Special Studies.  
Washington, D.C. U.S. G.P.O.  
iii, 89 p. : ill., map ; 24 cm. Serial no. 96-GGG.

*Descriptors:* Farm produce; Storage; Law and legislation; United States; Farm produce; Transportation; Law and legislation; United States; Farm produce; United States; Transportation; Railroads; United States; Freight

**2** NAL Call No: HC107.A13A6  
**Air service in Appalachia: an evolution.**  
Patrick, M.  
Washington, D.C. : Applachian Regional Commission.  
Appalachia v. 21 (1): p. 28-33. ill; 1988.

*Language:* English

*Descriptors:* U.S.A.; Rural areas; Air transport; Deregulation; Market competition; Low income groups; Economic impact; Reduction; Services

**3** NAL Call No: HE9783.3.U5U5  
**Airline competition fares and concentration at small-city airports : report to congressional requesters. (Fares and concentration at small-city airports.)**  
United States. General Accounting Office  
Washington, DC : The Office; GA 1.13:RCED-91-51.  
17 p. ; 28 cm. Cover title. January 1991.  
GAO/RCED-91-51. "B-242112", P. 1.

*Language:* English

*Descriptors:* Airlines; Local service airlines; Competition

**4** NAL Call No: HE9783.55.U5U55  
**Airline deregulation trends in airfares at airports in small and medium-sized communities : report to Congressional requesters. (Trends in airfares at airports in small and medium-sized communities.)**  
United States. General Accounting Office

Washington, D.C. : The Office.,  
25 p. ; 28 cm. Cover title. November 1990.  
GAO/RCED-91-13. "B-240364", P. [1].

*Language:* English

*Descriptors:* Airlines; Local service airlines

**5** NAL Call No: HD1775.S8R47 no.92-5  
**Alternative road networks for a South Dakota township.**

Lamberton, C. E.  
South Dakota State University, Economics Dept  
Brookings, S.D. : Economics Dept., South Dakota State University,  
20 leaves ; 28 cm. (Research report (South Dakota State University. Economics Dept.) ; 92-5.). June 1992. Includes bibliographical references ( . 20).

*Language:* English

*Descriptors:* Roads; Rural roads

**6** NAL Call No: HE355.3.R85P76  
**Alternatives for solving the local rural road and bridge problem.**

Baumel, C.P.; Schornhorst, E.; Smith, W.D.  
University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 25-42; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Bridges; Transport; Infrastructure; Funds; Fiscal policy; Farmers' attitudes

**7** NAL Call No: HD1775.O5O3  
**An analysis of bus routes for the Perry, Oklahoma School System.**

Allen, C.W.; Doeksen, G.A.; Ralstin, S.R.; Lester, C.F.

Stillwater, Okla. : The Department.

A. E. - Oklahoma State University, Department of Agricultural Economics (9105): 22 p.; 1991 Feb.

*Language:* English

*Descriptors:* Oklahoma; Public schools; Bus transport; Transport costs; Rural areas; Cooperative extension service

**8** NAL Call No: HD1775.O5O3  
**An analysis of the Enid, (Oklahoma) emergency medical service system calls.**

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Lenard, V.; Doeksen, G.A.; Johnson, B.; Wearmouth, D.; Whorton, D.; Stackler, L.; Secrest, G. Stillwater : The Service.

A. E. paper - Oklahoma State University, Dept. of Agricultural Economics (8309): 27 p.; Jan 1983.

*Language:* English

*Descriptors:* Oklahoma; Health services; Medical care; Rural communities; Transportation

**9** **NAL Call No: aZ7164.T8S76**  
**Annotated bibliography on rural intercity passenger transportation.**

Stommes, Eileen; Bearer, Martha A. United States, Dept. of Agriculture, Office of Transportation Washington, D.C. : U.S. Dept. of Agriculture, Office of Transportation,. 19 p. ; 28 cm. (Transportation facts). Cover title. August 1988.

*Language:* English

*Descriptors:* Rural transit; United States; Bibliography

**10** **NAL Call No: 100 W52 (1)**  
**An assessment of transportation services by older citizens in Doddridge, Hampshire, and Webster Counties, West Virginia, in 1978.**

McIntosh, K.D. Morgantown : The Station. Bulletin - West Virginia University, Agricultural and Forestry Experiment Station (680T): 16 p.; Sept 1982. 9 ref.

*Language:* English

*Descriptors:* West Virginia

**11** **NAL Call No: HT123.N6**  
**The availability of passenger transportation.**

Saltzman, A.; Newlin, L.W. Chapel Hill : University of North Carolina Press. Nonmetropolitan America in transition / edited by Amos H. Hawley and Sara Mills Mazie. p. 255-284; 1987. (Institute for Research in Social Science monograph series). Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural communities; Tertiary sector; Transport; Rural settlement; Urban rural migration; Quality of life

**12** **NAL Call No: 290.9 AM32P**

**Balancing road costs with simulated velocity profiles.**

Lee, C.N. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (89-7071): 10 p.; 1989. Paper presented at the 1989 International Summer meeting, June 25-28, 1989, Quebec, PQ, Canada.

*Language:* English

*Descriptors:* Rural roads; Design; Velocity

**13** **NAL Call No: HE4461.B37**  
**Barriers to private sector participation in public transportation final report.**

Thompson, Theodore A. United States, Urban Mass Transportation Administration, Office of Planning Assistance Washington, D.C. : The Office : Distributed in cooperation with Technology Sharing Program, Office of the Secretary of Transportation,. 1 v. (various pagings) : forms, 1 map ; 28 cm. September 1986. DOT-I-86-34. Includes bibliographies.

*Language:* English

*Descriptors:* Local transit; United States; Contracting out; Local transit; New York (State); Contracting out; Privatization

**14** **NAL Call No: aHE336.R85B43**  
**Beyond isolation the future of rural transportation as described at the transportation 2020 forums.**

Bearer, Martha A.; Stommes, Eileen S.; McWilliams, Ruth T. United States, Dept. of Agriculture, Office of Transportation Washington, D.C. : Office of Transportation, U.S. Dept. of Agriculture,. 24 p. ; 28 cm. Transportation Facts. January 1989.

*Language:* English

*Descriptors:* Rural roads; United States; Rural transit; United States; Infrastructure (Economics); United States

**15** **NAL Call No: HC107.A13A6**  
**Building a dream: Blue Ridge Parkway completed.**

Hembree, M. Washington, D.C. : Appalachian Regional Commission. Appalachia v. 21 (1): p. 5-11. ill; 1988.

## Transportation Services in Rural Areas

*Language:* English

*Descriptors:* North Carolina; Virginia; Rural roads; Infrastructure; History; Mountains; Preservation; Areas of outstanding natural beauty

**16** NAL Call No: aHN90.C6R78  
**Can marketing up rural bus ridership?**  
Washington, D.C. : U.S. Department of Agriculture, Economic Research Service.  
Rural development perspectives : RDP v. 5 (1): p. 48; 1988 Oct. Includes references.

*Language:* English

*Descriptors:* Idaho; Road transport; Rural areas; Public services; Infrastructure; Marketing techniques

**17** NAL Call No: TC529.T87 1990  
**Channel and bank stability of Twentymile Creek at U.S. Highway 45 near Wheeler, Prentiss County, Mississippi.**  
Turnipseed, D. Phil; Wilson, K. Van, Mississippi, State Highway Dept, Geological Survey (U.S.)  
Jackson, Miss. : Dept. of the Interior, U.S. Geological Survey ; Denver, Colo. : U.S. Geological Survey, Books and Open-File Reports [distributor].  
vi, 16 p. : ill., 1 map ; 28 cm. (Open-file report (Geological Survey (U.S.)) ; 90-111.). Includes bibliographical references (p. 15-16).

*Language:* English

*Descriptors:* Twentymile Creek (Miss.); Channels; River channels; Erosion

**18** NAL Call No: TC529.W55 1990  
**Channel and bank stability of Wolf Creek and a tributary at U.S. Highway 45 near Wheeler, Prentiss County, Mississippi.**  
Wilson, K. V.; Turnipseed, D. Phil  
Mississippi, State Highway Dept, Geological Survey (U.S.)  
Jackson, Miss. : Dept. of the Interior, U.S. Geological Survey ; Denver, Colo. : U.S. Geological Survey, Books and Open-File Reports [distributor].  
vi, 18 p. : ill. ; 28 cm. (Open-file report (Geological Survey (U.S.)) ; 90-110.). Includes bibliographical references (p. 17-18).

*Language:* English

*Descriptors:* Wolf Creek (Miss.); Channels; River

channels; Erosion

**19** NAL Call No: HD1773.A3N6  
**A circuitry cost model for rehabilitation/closure of rural bridges.**  
Nyamaah, K.; Hitzhusen, F.J.  
West Lafayette, Ind. : Purdue University.  
North Central journal of agricultural economics v. 7 (2): p. 41-49; 1985 Jul. Includes 7 references.

*Language:* English

*Descriptors:* Ohio; Rural areas; Bridges; Roads; Models; Deterioration; Cost benefit analysis

*Abstract:* Extract: A circuitry cost model for estimating the re-routing costs to road users when rural roads or bridges are posted or closed to traffic is applied to a sample of 15 bridges in Wayne County, Ohio. Model identified rankings indicated substantially greater benefits from a given repair/replacement budget compared to the County Engineer Department's ranking.

**20** NAL Call No: 100 OH3S (2)  
**A circuitry cost model for rehabilitation/closure of rural bridges: a Wayne County, Ohio, application.**  
Hitzhusen, F.J.; Nyamaah, K.  
Wooster, Ohio : The Center.  
Research bulletin - Ohio Agricultural Research and Development Center (1156): 17 p. ill; Feb 1984. Includes references.

*Language:* English

*Descriptors:* Ohio

**21** NAL Call No: 100 OK4 (1)  
**A community development guide for a transportation system for the elderly.**  
Webb, S.H.; Doeksen, G.A.; Carroll, R.  
Stillwater, Okla., The Station.  
Bulletin B - Oklahoma, Agricultural Experiment Station (B-757): 26 p.; May 1981. 9 ref.

*Descriptors:* Elderly; Transportation; Community development; Rural areas; Budgets

*Abstract:* Extract: This study has been done to help community planners in the early planning stages of a transportation system for the elderly. The study does not make recommendations, but rather provides cost and income information for various alternatives and a methodology for the estimation of a community's needs for such a system. Planners should integrate local information in their alternatives so that each closely reflects the community's

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conditions and needs. The forms and data in this guide can be used to develop costs and revenue for a county system with multiple locations and routes.

**22** **NAL Call No: HC107.A13A6**  
**Community support spurs progress on Corridor B.**

Baldwin, F.  
Washington, D.C. : Appalachian Regional Commission.  
Appalachia v. 23 (3): p. 30-37. ill., maps; 1990.

*Language:* English

*Descriptors:* Tennessee; North Carolina; Rural roads; Regional development; Economic development; Community action; Community involvement; Government; Regional planning; Mountain areas

**23** **NAL Call No: HE308.C6**  
**Community transportation reporter.**

Rural America, Inc, Center for Community Transportation, Community Transportation Association of America  
Washington, D.C. : Community Transportation Association of America.,  
Community transportation reporter. v. : ill. ; 28 cm; 1987-9999. Publishers: Rural America, Inc., Center for Community Transportation, 1987-19 ; Community Transportation of America, <1990-> .  
Description based on: Vol. 8, no. 8 (Sept./Oct. 1990); title from cover.

*Language:* English

*Descriptors:* Rural transit; Paratransit services

**24** **NAL Call No: 1 EC7AGR**  
**Commuting and migration status in nonmetro areas.**

Bowles, G.K.; Beale, C.L.  
Washington, The Service.  
Agricultural economics research - U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service v. 32 (3): p. 8-20; July 1980. 17 ref.

*Descriptors:* Population; Migration; Employment; Location; Transportation; Head of household

*Abstract:* Extract: A fifth of employed non-metropolitan household heads engaged in inter-county job commuting in 1975. Such commuting was positively associated with income, but not with education. Only a sixth of recent migrants to non-metro communities from metro areas continued

work at metro jobs, indicating a general severing of metro economic ties by such migrants. The median distance traveled to work by nonmetro household heads was well below that traveled by metro heads. Although there are more long-distance commuters among nonmetro residents, there are also many more who travel very short distances.

**25** **NAL Call No: 280.8 J822**  
**Consequences of transportation regulatory reform on agriculture and rural areas: discussion.**  
Breimyer, H.F.

Ames, Iowa : American Agricultural Economics Association.

American journal of agricultural economics v. 66 (5): p. 663-664; 1984 Dec. This paper was presented at the "Annual Meeting at the American Agricultural Economics Association," held Aug. 5/8, 1984, Ithaca, N.Y. Includes 1 references.

*Language:* English

*Descriptors:* Transport costs; Regulations; Rural areas; Transport; Trucks; Quality; Transporting quality

**26** **NAL Call No: HE4351.C6**  
**Consolidated procurement study final report.**

T.S.C. Consortium, Transportation Association of South Carolina, United States, Dept. of Transportation, Office of the Secretary  
Washington, D.C. : U.S. Dept. of Transportation, Office of the Secretary of Transportation : Repr. and distributed by Technology Sharing Program, Office of the Secretary of Transportation; TD 1.49/P 94.

35 p. ; 28 cm. (Technology sharing reprint series).  
Distributed to depository libraries in microfiche. December 1985. DOT-I-86-33.

*Language:* English

*Descriptors:* Local transit; South Carolina; Cost of operation; Transportation; South Carolina; Equipment and supplies; Purchasing

**27** **NAL Call No: HE4211.G84**  
**Coordinating rural transit stretching state resources for better service.**

Greene, Michael J.,  
Council of State Governments  
Lexington, Ky. : Council of State Governments.,  
vii, 44 p. : ill. ; 28 cm. Bibliography: p. 36-44.

*Language:* English

## Transportation Services in Rural Areas

*Descriptors:* Rural transit; United States; Management; Rural transit; United States; Finance

**28** NAL Call No: HE316.A13W34 1990  
**Coordination of rural public transportation services in three Southeastern States final report.**

Walther, Erskine S.

United States, Urban Mass Transportation Administration, Office of Technical Assistance and Safety, United States, Urban Mass Transportation Administration, Office of University Research and Training

Washington, D.C. : U.S. Dept. of Transportation : Distributed in cooperation with Technology Sharing Program, Research and Special Programs Administration, U.S. Dept. of Transportation; TD 1.2:R 88/4.

1 v. (various pagings) : ill. ; 28 cm. Shipping list no.: 90-673-P. June 1990. DOT-T-90-17. Includes bibliographical references (p. [107]-117).

*Language:* English

*Descriptors:* Rural transit

**29** NAL Call No: 290.9 P972  
**Cost saving methods lead the way for local roads.**

Hopkins, J.

Lafayette, Ind. : The University.

Engineering extension series - Purdue University (160): p. 26-28; 1989. Proceedings of the 75th Annual Road School, March 7-9, 1989, Purdue University, West Lafayette, Indiana.

*Language:* English

*Descriptors:* Oklahoma; Roads; Rural areas; Engineering; Fabric; Bearing characteristics; Machinery; Installations; Methodology

**30** NAL Call No: MnSUThesis Stp atha  
**Cost-effectiveness of network design the case of rural road investment and maintenance management strategies.**

Athanasenas, Athanasios Loukas  
1990.

xi, 273 leaves : ill. ; 29 cm. Includes bibliographical references.

*Language:* English

**31** NAL Call No: HE355.3.R85F56  
**Cost-saving techniques.**

Scholer, C.

New York : Praeger.

Financing local infrastructure in nonmetropolitan

areas / edited by David L. Chicoine and Norman Walzer. p. 185-197; 1986. Includes references.

*Language:* English

*Descriptors:* North central states of U.S.A.; Rural roads; Public finance; Agribusiness; Transport; Traffic; Maintenance; Federal government; Bridges; Pavements; Cost analysis

**32** NAL Call No: 290.9 P972  
**A county engineer's view of local roads and streets from the legislature.**

Lieder, B.

Lafayette, Ind. : The University.

Engineering extension series - Purdue University (160): p. 18-20; 1989. Proceedings of the 75th Annual Road School, March 7-9, 1989, Purdue University, West Lafayette, Indiana.

*Language:* English

*Descriptors:* Minnesota; Rural development; Roads; Road transport

**33** NAL Call No: HE355.3.R85F56  
**County traffic patterns and prospects for change.**

Hamlett, C.A.; Pautsch, G.R.; Baumel, C.P.

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 93-108; 1986. Includes references.

*Language:* English

*Descriptors:* Iowa; Rural roads; Counties; Traffic patterns; Deterioration; Public finance; Information needs; Vehicles

**34** NAL Call No: 290.9  
**The debasement of rural America (Transportation).**

Graham, A.E.

West Lafayette, Ind., Purdue University, 1980.

Proceedings of the 66th Annual Road School : held at Purdue University, March 11-13, 1980 / edited by D.G. Shurig. p. 111-118; 1980.

*Descriptors:* USA

**35** NAL Call No: HE355.3.R85F56  
**Demographics and rural roads.**

Voss, P.R.

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 53-76; 1986. Includes statistical data. In-

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cludes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Demography; Trends; Population change; Public finance; Urban rural migration; Transport; Technical progress; Settlement

**36** NAL Call No: **HE355.3.R85P76**  
**Deregulated agricultural transportation: problems and issues.**

Cornelius, J.C.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 73-91; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Transport; Deregulation; Infrastructure; Structural change; Rural economy; Economic development

**37** NAL Call No: **HT401.J68**  
**Development control in villages, the highways factor.**

Havers, J.

Oxford : Pergamon.

Journal of rural studies v. 1 (3): p. 253-266. ill., maps; 1985. Includes references.

*Language:* English

*Descriptors:* Land use planning; Roads; Villages; Local planning; Land policy; Decision making

**38** NAL Call No: **HE203.D57**  
**A Directory of rural and specialized transit operators.**

Rural America, Inc, United States, Urban Mass Transportation Administration, Office of Grants Management

Washington, D.C. : The Office : Distributed in cooperation with Technology Sharing Program, Office of the Secretary of Transportation; TD 1.20/8-86-27.

3 v. : maps ; 22 x 28 cm. "DOT-I-86-26", Vol. 1. June 1986. "DOT-I-86-27", Vol. 2. Item 982-I-15 (microfiche).

*Language:* English

*Descriptors:* Rural transit; United States; Directories; Paratransit services; United States; Directories; Local transit; United States; Directories

**39** NAL Call No: **HD1775.O503**  
**An economic analysis of a transportation system for the elderly in Garfield county (Oklahoma).**

Foltz, M.N.; Doesken, G.A.; Lenard, V.; Johnson, B.; Wearmouth, D.A.

Stillwater : The Service.

A. E. - Oklahoma State University, Dept. of Agricultural Economics (8375): 28 p.; Oct 1983. Includes 3 references.

*Language:* English

*Descriptors:* Oklahoma; Economic analysis; Transportation; Rural communities; Expenditures; Costs and returns

**40** NAL Call No: **281.8 F2226**  
**Economic multipliers for metropolitan areas in Illinois and implications for the proposed rural Chicago airport.**

Crihfield, J.B.; Campbell, H.S. Jr

Urbana, Ill. : The Service.

Farm economics facts and opinions - University of Illinois, Department of Agricultural Economics, Cooperative Extension Service (93-1): 7 p.; 1993 Jan.

*Language:* English

*Descriptors:* Illinois; Rural development; Community development; Urban areas; Multipliers; Economic impact; Airports

**41** NAL Call No: **HE355.3.R85F56**  
**Economics of pavement strategies for rural roads.**

Luhr, D.R.

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 109-125; 1986. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Pavements; Traffic; Construction; Design criteria; Economic analysis; Performance; Management; Rural planning

**42** NAL Call No: **251.8 R32**  
**Economies of size and scope in rural low-volume roads.**

Deller, S.C.; Chicoine, D.L.; Walzer, N.

Amsterdam : Elsevier Science Publishers (North Holland).

The Review of economics and statistics v. 70 (3): p. 459-465; 1988 Aug. Includes references.



## Transportation Services in Rural Areas

*Language:* English

*Descriptors:* Illinois; Minnesota; Ohio; Wisconsin; Rural roads; Economies of scale; Maintenance; Local government; Public services; Coats

**43** NAL Call No: KF26.S668 1987

**The effect of airline deregulation on the rural economy hearing before the Subcommittee on Rural Economy and Family Farming of the Committee on Small Business, United States Senate, One Hundredth Congress, first session ... October 28, 1987.**

United States. Congress. Senate. Committee on Small Business. Subcommittee on Rural Economy and Family Farming

Washington, [D.C.] : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O.; Y 4.Sm 1/2:S.hrg.100-360.

iii, 194 p. : ill., maps ; 24 cm. (S. hrg. ; 100-360). Distributed to some depository libraries in microfiche. Includes bibliographical references.

*Language:* English

*Descriptors:* Rural development; United States; Aeronautics, Commercial; United States; Deregulation; United States

**44** NAL Call No: HE355.3.R85P76

**The effect of transportation service on the location of manufacturing plants in nonmetropolitan and small metropolitan communities.**

Goode, F.M.; Hastings, S.E.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 95-116; 1989. Includes references.

*Language:* English

*Descriptors:* North eastern states of U.S.A.; Rural areas; Community development; Infrastructure; Transport; Location theory; Manufacture; Econometric models

**45** NAL Call No: HE355.3.R85P76

**Effective transportation management at the firm level.**

Beierlein, J.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation

problems / edited by William R. Gillis. p. 117-127; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural areas; Transport; Management; Firms; Marketing techniques

**46** NAL Call No: KF26.S635 1987

**The effects of airline deregulation on airline service to small-and medium-sized communities and small businesses hearing before the Subcommittee on Competition and Antitrust Enforcement of the Committee on Small Business, United States Senate, One Hundredth Congress, first session, on ... Cedar Falls, IA, June 1, 1987.**

United States. Congress. Senate. Committee on Small Business. Subcommittee on Competition and Antitrust Enforcement

Washington [D.C.] : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O.,

iii, 134 p. : ill. ; 23 cm. (S. hrg. ; 100-262). Distributed to some depository libraries in microfiche. Item 1049-J, 1049-K (microfiche). Includes bibliographical references.

*Language:* English

*Descriptors:* Local service airlines; Iowa; Aeronautics, Commercial; United States; Deregulation; Small business; United States

**47** NAL Call No: 410 J828

**Effects of off-road vehicles on the biota of the Algodones Dunes, Imperial County, California.**

Luckenbach, R.A.; JAPEA; Bury, R.B.

Oxford : Blackwell Scientific.

Journal of applied ecology v. 20 (1): p. 265-286. ill., maps; Apr 1983. Includes references.

*Language:* English

**48** NAL Call No: HD1775.O5C87

**Efficient school bus routes reduce costs.**

Sloggett, G.; Doeksen, G.A.; Martin, B.

Stillwater, Okla. : The Station.

Current farm economics - Agricultural Experiment Station, Division of Agriculture, Oklahoma State University v. 64 (2): p. 3-10; 1991 Jun. Includes references.

*Language:* English

*Descriptors:* Oklahoma; School children; Bus transport; Rural areas; Computer software; Microcomputers; Energy consumption; Community

## Quick Bibliography Series

programs; Costs

**49** NAL Call No: HE5623.N37 1988  
**The Eighth National Conference on Rural Public Transportation final report.**

Beadle, Charles R.; Edner, Sheldon M.  
United States, Urban Mass Transportation Administration, Office of Technical Assistance and Safety, Technology Sharing Program (U.S.)  
National Conference on Rural Public Transportation 8th : 1987 : Ashland, Or.  
Washington, D.C. : U.S. Dept. of Transportation : distributed in cooperation with Technology Sharing Program, U.S. Dept. of Transportation., iii, 185 p. ; 28 cm. August 1988. DOT-T-88-16.

*Language:* English

*Descriptors:* Rural transit; United States; Congresses; Local transit; United States; Congresses

**50** NAL Call No: 6 F2212

**End of the road.**

Henderson, P.  
Philadelphia, Pa. : The Journal.  
Farm journal. p. 20-21. ill; 1988 May.

*Language:* English

*Descriptors:* North central states of U.S.A.; Rural roads; Bridges; Repair costs; Maintenance; Funds; Layout and planning

**51** NAL Call No: TJ163.4.U6E4  
**Energy and family transportation.**

Gladhart, P.M.; Tortorici, J.  
East Lansing : Michigan State University Press.  
Energy and families : lifestyles and energy consumption in Lansing / Fam Energy Project, Inst for Fam and Child Study, Coll of Human Ecology, Michigan State Univ ; edited by P.M. Gladhart, B. Maas Morrison, J.J. Zuiches. p. 157-191; 1987. Includes references.

*Language:* English

*Descriptors:* Michigan; Families; Vehicles; Road transport; Fuel consumption; Life style; Behavior; Rural population

**52** NAL Call No: S494.5.E5E44  
**Energy costs and the rural transportation system.**

Hodgkin, K.E.  
Canberra, Division of Land Resources Management, CSIRO.  
Energy and agriculture, the impact of changes in energy costs on the rural sector of the Australian

economy 1980).: p. 174-184. ill; 1979 (pub. 1980). Presented at a workshop organized by the CSIRO and Murdoch University, at Bunbury, W.A., 14-18 October 1979. Includes 2 ref.

*Language:* English

**53** NAL Call No: 100 M69Mr no.139  
**Equipment ownership and utilization patterns among Mississippi counties.**

Reinschmiedt, Lynn L.; Murray, Steve W.  
Mississippi State, Miss. Dept. of Agricultural Economics, Mississippi Agricultural and Forestry Experiment Station, Mississippi State University.  
46 leaves : ill., map ; 28 cm. November 1982. Bibliography: leaf 20.

*Language:* English

*Descriptors:* Highway planning; Mississippi; Road machinery

**54** NAL Call No: A99.9 F7622UN  
**Erosion on very stony forest soil during phenomenal rain in Webster County, West Virginia (Includes logging roads).**

Patric, J.H.; XANEA; Kidd, W.E. Jr  
Broomall : The Station.  
USDA Forest Service Research Paper NE - United States, Northeastern Forest Experiment Station (501): 13 p. ill., maps; 1982. Includes references.

*Language:* English

*Descriptors:* West Virginia; Forests

**55** NAL Call No: A99.9 F7622UN  
**Erosion on very stony forest soil during phenomenal rain in Webster County, West Virginia (Relation to logging road engineering and management, Appalachian Mountains).**

Patric, J.H.; Kidd, W.E. Jr  
Broomall, Pa., The Station.  
USDA Forest Service Research Paper NE - United States, Northeastern Forest Experiment Station (501): 13 p. ill., maps; 1982. 23 ref.

*Language:* English

*Descriptors:* West Virginia; Forests; Mountain Areas

**56** NAL Call No: HD1773.A3N6  
**Estimated potential effects of rural road development on grain assembly costs: a Michigan case study.**

## Transportation Services in Rural Areas

Tucker, J.D.; Thompson, S.R.  
Urbana, Ill., Illinois University. Dept. of Agricultural Economics.  
North Central journal of agricultural economics v. 3 (2): p. 125-130; July 1981. 8 ref.

*Descriptors:* Michigan; Transportation; Costs; Grain marketing; Roads; Rural areas

*Abstract:* Extract: The potential effect of rural road development policies and selected maintenance programs upon grain marketing and transportation costs in southeastern Michigan is examined through a linear programming algorithm designed to minimize aggregate transport and handling costs for grain. The results quantify the decrease in grain assembly costs that occurs when the rural road system is improved.

**57** NAL Call No: HD1773.A3N6  
**Estimating farm vehicle travel costs on local rural roads.**

Hanson, S.; Hamlett, C.A.; Baumel, C.P.  
West Lafayette, Ind. : Purdue University.  
North Central journal of agricultural economics v. 9 (2): p. 271-278; 1987 Jul. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Tractors; Combine harvesters; Travel; Road transport; Transport costs; Maintenance; Investment planning; Structural change

**58** NAL Call No: HE148.W34  
**Evaluating resource allocation to personal transportation in rural areas efficiently supplying transportation facilities.**

Walden, M. L.  
United States, Dept. of Agriculture, North Carolina State University, North Carolina Agricultural Extension Service  
S.l. : s.n.,  
36 p. : ill. ; 28 cm. A demonstration project of the United States Department of Agriculture, North Carolina State University and North Carolina Agriculture Extension Service. September 1982. Bibliography: p. 28.

*Language:* English

*Descriptors:* Transportation planning; United States; Transportation planning; Economic aspects

**59** NAL Call No: S97.R47 v.72 no.9  
**Evaluation of the role of commuter transportation in achieving balanced growth in a 16 county area**

**in rural North Carolina.**

Evans, Sidney H.; Mu'min, Ridgely Abdul; Willis, Harold G.

North Carolina Agricultural and Technical State University

Greensboro, N. C. : North Carolina Agricultural and Technical State University; G90 3:C73 vol. 72/no. 9.

vi, 27 p. : ill. ; 23 cm. (Research bulletin series ; v. 72, no. 9). "Summer 1982.", Cover. Bibliography: p. 27.

*Language:* English

*Descriptors:* Transportation; North Carolina; Commuting; North Carolina

**60** NAL Call No: HE4311.E97 1988  
**Expanding the use of private sector providers in rural, small urban and suburban areas.**

United States, Urban Mass Transportation Administration, Office of Technical Assistance, Chester County (Pa.), Board of County Commissioners, Carter-Goble Associates, LRS Associates, Technology Sharing Program (U.S.)

Washington, D.C. : U.S. Dept. of Transportation : Distributed by Technology Sharing Program.

1 v. (various pagings) : maps, charts ; 28 cm. Final report. October 1987. "UMTA Technical Assistance Program", Cover. DOT-T-88-17.

*Language:* English

*Descriptors:* Rural transit; Local transit

**61** NAL Call No: HE355.3.R85P76  
**Extension involvement in rural transportation.**

Nelson, D.L.  
University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 15-22; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural areas; Transport; Extension activities; Trends

**62** NAL Call No: 281.9 C81AE  
**Fences in New York.**

Bugliari, J.B.; Grossman, D.A.  
Ithaca, N.Y. : The Department.

A.E. Ext. - New York State College of Agriculture and Life Sciences, Cornell University, Dept. of Agricultural Economics (88-10): 12 p.; 1988 Jun.

## Quick Bibliography Series

Includes references.

*Language:* English

*Descriptors:* New York; Fences; Agricultural and rural law; Railways; Roads; Farms; Reserved areas

**63** NAL Call No: HD1407.A3 no.13  
**The financial implications of forestry logging traffic on rural roads.**

Clough, P. W. J.; Meister, A. D.

Palmerston North, N.Z. : Massey University,

44 p. : ill., map ; 21 cm. (Agricultural policy paper / Centre for Agricultural Policy Studies, Massey University, no. 13 Discussion paper in natural resource economics / Department of Agricultural Economics & Business, Massey University, no. 11). "May 1987", Cover. Bibliography: p. 41.

*Language:* English

**64** NAL Call No: HE355.3.R85F56  
**Financing local infrastructure in nonmetropolitan areas.**

Chicoine, David L.; Walzer, Norman

New York : Praeger,

viii, 255 p. : ill. ; 25 cm. Includes bibliographies.

*Language:* English

*Descriptors:* Rural roads; United States; Finance

**65** NAL Call No: aHE356.A14C55  
**Financing rural roads and bridges in the Midwest.**

Chicoine, David L.; Walzer, Norman

United States, Dept. of Agriculture, Office of Transportation, United States, Agricultural Marketing Service

Washington, D.C. : Office of Transportation and Agricultural Marketing Services, U.S. Department of Agriculture,

7, ix, 225 p. ; 28 cm. October 1984.

*Language:* English

*Descriptors:* Roads; Middle West; Finance; Bridges; Middle West; Finance

**66** NAL Call No: HE355.3.R85P76  
**Financing rural roads and bridges: issues and trends.**

Chicoine, D.L.; Walzer, N.; Deller, S.C.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation

problems / edited by William R. Gillis. p. 43-72. maps; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Bridges; Finance; Trends; Property taxes; Indirect taxation; Employment

**67** NAL Call No: HE355.3.R85F56  
**Financing rural roads in the Midwest.**

Chicoine, D.L.; Walzer, N.

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 33-51; 1986. Includes references.

*Language:* English

*Descriptors:* North central states of U.S.A.; Rural roads; Public finance; Infrastructure; Bridges; Taxes; Political attitudes; Bonds; Farmers' attitudes; Agribusiness

**68** NAL Call No: HE355.3.R85F56  
**From bull path to boulevard.**

Cook, C.D.

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 77-92; 1986. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Demography; Traffic; Population growth; Public finance; Bridges; Construction; Quality standards

**69** NAL Call No: 290.9 P972  
**Future of rural transportation.**

Rubel, T.

Lafayette, Ind. : The University.

Engineering extension series - Purdue University (161); p. 55-60; 1990. Proceeding of the 76th Annual Road School, March 6-8, 1990, Purdue University, West Lafayette, Indiana.

*Language:* English

*Descriptors:* Transport; Rural areas

**70** NAL Call No: TA455.G44G46  
**Geotextile repairs deteriorating four-lane highway.**

Barry, G.F.

St. Paul, Minn. : Industrial Fabrics Association International.

Geotechnical fabrics report v. 6 (6): p. 18-20. ill;

## Transportation Services in Rural Areas

1988 Nov.

*Language:* English

*Descriptors:* Illinois; Rural roads; Concrete roads; Road construction

**71** NAL Call No: **HD256.D6**  
**Growth management in countryfied cities.**

Doherty, J. C.

Alexandria, Va. : Vert Milon Press, c1984.

v. : ill., maps ; 28 cm. Bibliography: v. 1, p. 94.

*Language:* English

*Descriptors:* United States; Industries; Location; Social aspects; Case studies; Land use, Rural; Urbanization; Roads

**72** NAL Call No: **HE4221.G85 1990**  
**Guidebook for planning small urban and rural transportation programs.**

United States, Dept. of Transportation, New Mexico, Transportation Programs Division, Comsis Corporation

Washington : D.C. : U.S. Dept. of Transportation, 2 v. (various pagings) : ill. ; 28 cm. "A technology sharing reprint", Cover. June, 1990. "DOT-T-91-07", v.1, p. 4 of cover. "DOT-T-91-08", v.2, p. 4 of cover.

*Language:* English

*Descriptors:* Local transit; Rural transit; Transportation

**73** NAL Call No: **HE4487.M9H3**  
**Handbook for a transportation management review.**

Montana, Passenger Transit Bureau, Montana, Dept. of Commerce, United States, Dept. of Transportation, Office of the Secretary

Washington, D.C.? : U.S. Dept. of Transportation, Office of the Secretary of Transportation : Technology Sharing Program [distributor, .

68 p. : forms ; 28 cm. (Technology sharing reprint series). Montana Peer Group, Management Assistance Project. "October 1986", Cover. "DOT-I-87-18", P. [3] of cover.

*Language:* English

*Descriptors:* Local transit

**74** NAL Call No: **HQ1063.5.H68**  
**A handbook on rural elderly transportation services a practical introduction to operating and evaluating a rural elderly transportation system.**

Howard, David M.

National Resource Center for Rural Elderly  
Kansas City, MO : National Resource Center for Rural Elderly, University of Missouri-Kansas City, 1991.

52 p. ; 28 cm. Reprinted April 1991. Supported by a grant from the Administration on Aging. Includes bibliographical references.

*Language:* English

*Descriptors:* Rural aged; Evaluation research (Social action programs)

**75** NAL Call No: **HE355.3.R85P76**  
**Highway salt management.**

White, D.J.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 225-232; 1989. Includes references.

*Language:* English

*Descriptors:* New York; Rural roads; Salt; Management; Educational programs; Case studies

**76** NAL Call No: **HD1761.A1M5 no.92-8**  
**How much transportation infrastructure does rural America need?**

Fruin, Jerry; Baumel, C. Phillip

University of Minnesota, Dept. of Agricultural and Applied Economics

St. Paul, Minn. : Dept. of Agricultural and Applied Economics, University of Minnesota, College of Agriculture, .

25 p. ; 28 cm. (Staff paper P ; 92-8). April 1992. Includes bibliographical references (p. 25).

*Language:* English

*Descriptors:* Transportation; Rural transportation; Infrastructure (Economics)

**77** NAL Call No: **HE355.3.R85P76**  
**How technology transfer and Cooperative Extension depasture highways and maintain rural roads.**

Skelton, K.; Irwin, L.H.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 233-246; 1989. Includes references.

## Quick Bibliography Series

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Rural communities; Technology transfers; Cooperative extension service; Trends; Networking

**78** NAL Call No: HE5634.I2C88  
**The Idaho rural/small city cooperative transportation marketing demonstration project final report.**

Cutler, Marc R.

United States, Urban Mass Transportation Administration, Office of Service and Management Demonstrations, Transportation Systems Center, Technology Sharing Program (U.S.), Dynatrend Incorporated

Washington, D.C. : Office of the Secretary of Transportation, Technology Sharing Program, xi, 119, A-5 p. : ill., maps, charts ; 28 cm. Funded by the Urban Mass Transportation Administration, Office of Service and Management Demonstrations. October 1986. UMTA Technical Assistance Program. DOT-I-87-17.

*Language:* English

*Descriptors:* Rural transit; Idaho; Marketing; Local transit; Idaho; Marketing; Paratransit systems; Idaho; Marketing

**79** NAL Call No: aHE1043.B37  
**Importance of small railroads to agriculture and rural America.**

Batson, John; Bearer, Martha

United States, Dept. of Agriculture, Office of Transportation

Washington, D.C. : Office of Transportation, U.S. Dept. of Agriculture, .

7 p. : ill. ; 28 cm. (Transportation report). Caption title. August 1989. Includes bibliographical references (p. 7).

*Language:* English

*Descriptors:* Railroads; United States; Rural transit; United States

**80** NAL Call No: 917663(AGE)  
**Inadequate bridges contribute to local economic problems.**

Gillis, W.

Madison, Wis. : The Service.

Community economics - Univ. of Wisconsin, Dept. of Agricultural Economics, Cooperative Extension Service (83): 2 p.; Aug 1983.

*Language:* English

*Descriptors:* Safety; Highways; Bridges; Vehicles

**81** NAL Call No: HD1773.A315  
**Infrastructure and agriculture: Interdependencies with a focus on local roads in the North Central States.**

Chicoine, D.L.

Ames, Iowa : North Central Regional Center for Rural Development.

Interdependencies of agriculture and rural communities in the twenty-first century : the North Central Region : conference proceedings / edited by Peter F. Korsching and Judith Gildner. p. 141-163; 1986. Includes references.

*Language:* English

*Descriptors:* North central states of U.S.A.; Rural roads; Infrastructure; Public services; Bridges; Fiscal policy; Local authority areas; Interregional planning; Property taxes

**82** NAL Call No: KF27.P896 1991a  
**Infrastructure needs of the Pacific Northwest hearings before the Committee on Public Works and Transportation, House of Representatives, One Hundred Second Congress, first session, March 27, 1991, at Seattle, Washington; March 28, 1991, at Portland, Oregon.**

United States. Congress. House. Committee on Public Works and Transportation

Washington : U.S. G.P.O. : For sale by the U.S. G.P.O., Supt. of Docs., Congressional Sales Office; Y 4.P 96/11:102-28.

v, 548 p. : ill. ; 23 cm. Distributed to some depository libraries in microfiche. Shipping list no.: 92-141-P. 102-28. Includes bibliographical references (p. 548).

*Language:* English

*Descriptors:* Infrastructure (Economics); Local transit; Transportation and state

**83** NAL Call No: HE4351.I5  
**Innovative financing for transportation practical solutions and experiences.**

Hoel, Lester A.

United States, Dept. of Transportation, Office of Technology and Planning Assistance, United States, Dept. of Transportation, University Research Program

Washington, D.C. : U.S. Dept. of Transportation ; Springfield, Va. : Available through the National

## Transportation Services in Rural Areas

Technical Information Service, viii, 416 p. : ill., maps ; 28 cm. Final report. Distributed to depository libraries in microfiche. Proceedings of a conference held in Fredricksburg, Va., Dec. 11-13, 1985. April 1986. DOT-I-86-20. Includes bibliographies.

*Language:* English

*Descriptors:* Transportation; Finance; Congresses; Local transit; Finance; Congresses; User charges; Congresses

**84** NAL Call No: HE206.3.I55  
**Innovative funding for intercity modes a casebook of state, local, and private approaches : final report.**

Fravel, Frederic D.

United States, Dept. of Transportation, Office of Technology and Planning Assistance  
Washington, D.C. : U.S. Dept. of Transportation : [Technology Sharing Program, distributor,.

83 p. : ill. ; 28 cm. July 1987. DOT-I-87-21. Bibliography: p. 81-83.

*Language:* English

*Descriptors:* Transportation; United States; Deregulation; Transportation; United States; Finance; Rural transit; United States; Finance; Local service airlines; United States

**85** NAL Call No: HE5633.N7N4  
**Integrating school transportation resources into coordinated rural public transportation programs a proposal to increase access by rural transportation disadvantaged persons to needed services.**

New York (State). Legislature. Legislative Commission on Rural Resources

Albany, N.Y. : The Commission,.

i, 17 p. ; 28 cm. April 1988. Bibliography: p. 17.

*Language:* English

*Descriptors:* Rural transit; New York (State); Management; School children; New York (State); Transportation; Management; Transportation; Law and legislation; New York (State)

**86** NAL Call No: aHN90.C6R78  
**Interstate highway interchanges reshape rural communities.**

Moon, H.E. Jr

Washington, D.C. : U.S. Department of Agriculture, Economic Research Service.

Rural development perspectives : RDP v. 4 (1): p.

35-38. ill; 1987 Oct. Includes references.

*Language:* English

*Descriptors:* Kentucky; Rural development; Roads; Rural economy; Road transport; Economic impact

**87** NAL Call No: HE355.3.R85P76  
**Introduction: The relevance of rural transportation.**

Gillis, W.R.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 3-14; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural environment; Transport; Infrastructure; Economic development; Quality of life; Educational programs; Technical aid; Management; Decision making; Technology transfers

**88** NAL Call No: 282.8 J82  
**Land use versus road network design in community transport cost evaluation.**

Peiser, R.B.

Madison : University of Wisconsin Press.

Land economics v. 60 (1): p. 95-109; Feb 1984. Includes 26 references.

*Language:* English

*Descriptors:* Land utilization; Transportation; Planning; Costs; Roads; Land improvement; Zoning; Local governments

*Abstract:* Extract: The purpose of this paper is to present the results of an experiment to evaluate the importance of land use location relative to road network design in determining transportation costs within a community. When a developer undertakes the development of a new subdivision, the normal procedure is for him to hire a land planner to prepare a master plan for the subdivision. Land uses are sited based on market information concerning where and how much land should be devoted to various uses. Since the developer's experience in the marketplace is the primary basis for determining the best locations for each land use, the resulting configuration usually mirrors the development patterns prevalent in the community at the time.

**89**

NAL Call No: HD1775.O5O3

## Quick Bibliography Series

**Long range emergency medical service planning in Oklahoma.**

Miller, L.D.; Doeksen, G.A.

Stillwater : The Service.

A. E. paper - Oklahoma State University, Dept. of Agricultural Economics (8322): 12 p.; Feb 1983.

*Language:* English

*Descriptors:* Oklahoma; Health services; Medical care; Planning; Rural communities; Transportation

**90 NAL Call No: aHE1621.B3**

**Maintaining local rail service a handbook.**

Batson, John A.; Norton, Jerry

Washington, D.C. : USDA, Office of Transportation,

iv, 59 p. ; 30 cm. November 1988. Bibliography: p. 57-59.

*Language:* English

*Descriptors:* Railroads; United States; Management; Railroads; Economic aspects; United States; Railroads; United States; Abandonment; Railroad law; United States

**91 NAL Call No: HE4321.F68**

**Maintenance manager's manual for small transit agencies prepared for the Division of Public Transportation Ohio Department of Transportation.**

Fowler, William

Ohio, Division of Public Transportation, ATE Management and Service Company

Washington, D.C. : U.S. Dept. of Transportation : 130, [62] p. : ill. ; 28 cm. (Technology sharing reprint series). "March 1988", Cover. "Author William Fowler.", Transmittal sheet. "DOT-T-88-08", p. 4 of cover.

*Language:* English

*Descriptors:* Local transit; Buses

**92 NAL Call No: aHD1491.A1U542**

**Marketing and transportation of grain by local cooperatives (United States).**

Yager, F.P.; Hunley, C.

Washington, D.C. : The Service.

ACS research report - United States, Agricultural Cooperative Service (35): 11 p. ill., maps; May 1984.

*Language:* English

*Descriptors:* USA

**93 NAL Call No: aHD1491.A1U542**

**Marketing and transportation of grains by local cooperatives.**

Hunley, C.L.

Washington, D.C. : The Service.

ACS research report - United States, Agricultural Cooperative Service (47): 16 p. maps; 1985 Mar.

*Language:* English

*Descriptors:* U.S.A.; Cereals; Grain stores; Transport; Cooperatives; Cooperative marketing

**94 NAL Call No: 280.8 J822**

**Measuring the economic efficiency of producing rural road services.**

Deller, S.C.; Nelson, C.H.

Ames, Iowa : American Agricultural Economics Association.

American journal of agricultural economics v. 73 (1): p. 194-201; 1991 Feb. Includes references.

*Language:* English

*Descriptors:* Illinois; Minnesota; Wisconsin; Rural roads; Local government; Rural communities; Towns; Size; Production economics; Efficiency; Management; Economies of scale; Resource allocation; Cost control; Linear programming; Public services

*Abstract:* The research reported here examines the ability of a sample of Midwest township officials to produce low-volume rural road services in an economically efficient manner. Farrell-type measures of input use and scale efficiency are reported. Results suggest that over 50% of costs may be unnecessarily incurred because of input use inefficiency. Correlation between output measures and the efficiency measures suggests that larger jurisdictions are more efficient than smaller jurisdictions. In addition, 84.5% of the townships exhibit technology characterized by increasing returns to scale. These results suggest that jurisdictional consolidation of production-related responsibilities may yield substantial cost savings.

**95 NAL Call No: 275.28 P38**

**Mending the bridges: implications for rural economics (Highway and traffic problems, effect on agricultural product flow, agribusiness, Pennsylvania).**

Gillis, W.P.; Beierlein, J.B.

University Park, Pa. : The Service.

Farm economics - Pennsylvania State University, Cooperative Extension Service. 4 p. ill; Sept/Oct



## Transportation Services in Rural Areas

1983.

*Language:* English

*Descriptors:* Pennsylvania

**96** NAL Call No: HE147.6.W9  
**Microcomputers in transit a needs assessment and implementation handbook : final report.**

Wyatt, Eve; Smerk, George M.

United States, Urban Mass Transportation Administration, University Research and Training Program

Washington, D.C. : University Research and Training Program, Urban Mass Transportation Administration : Distributed in cooperation with Technology Sharing Program, Office of the Secretary of Transportation.,

85 p. ; 28 cm. Distributed to depository libraries in microfiche. April 1985. DOT-I-86-07. Bibliography: p. [81]-85.

*Language:* English

*Descriptors:* Local transit; Data processing; Handbooks, manuals, etc; Microcomputers; Handbooks, manuals, etc; Local transit; Management; Handbooks, manuals, etc

**97** NAL Call No: HC107.A13A6  
**Middle Tennessee short line railroad delivers.**

Hoffman, C.

Washington, D.C. : Appalachian Regional Commission.

Appalachia v. 22 (3): p. 22-27; 1989.

*Language:* English

*Descriptors:* Tennessee; Railways; Rail transport; Entrepreneurship; Rural economy; Case studies

**98** NAL Call No: TE229.W67 1987  
**Minor rural roads planning, design and evaluation : proceedings Workshop Minor Rural Roads, Wageningen, October 28-30, 1987.**

Michels, Th; Jaarsma, C. F.

International Commission of Agricultural Engineering, Permanent International Association of Road Congresses, Organisation for Economic Co-operation and development, Road Transport Research Programme

Workshop Minor Rural Roads 1987 : Wageningen, Netherlands.

Wageningen [Netherlands] : Pudoc ; Lanham, MD : UNIPUB [distributor],

198 p., [2] leaves of plates : ill. ; 25 cm. "The workshop 'Minor Rural Roads' has been organized

under the auspices of the International Commission of Agricultural Engineering (CIRG) and the Permanent International Association of Road Congresses (PIARC) in cooperation with the Organization for Economic Co-operation and Development (OECD), Road Transport Research Programme", P. [2]. Distributor stamped on t.p. Includes bibliographical references.

*Language:* English

*Descriptors:* Rural roads; Rural roads

**99** NAL Call No: TG365.M3  
**Modern timber bridges a viable alternative for rural America.**

National Forest Products Association

Washington, DC : National Forest Products Association.,

[3] p. : col. ill. ; 28 cm. Cover title. "October 1988", P. 4 of cover.

*Language:* English

*Descriptors:* Bridges, Wooden; Rural roads; Timber; Rural development projects

**100** NAL Call No: 275.29 M68EXT  
**Modern timber bridges: an alternative for Mississippi.**

Daniels, B.

State College, Miss. : The Service.

Publication - Cooperative Extension Service, Mississippi State University (1783): 4 p.; 1991 Jul.

*Language:* English

*Descriptors:* Mississippi; Bridges; Structural timbers; Rural roads; Road construction

**101** NAL Call No: HD1773.A2N6  
**Motor carrier deregulation: implications of Florida's experiences for Northeast agriculture and rural communities.**

Beilock, R.; Freeman, J.

College Park, Md. : The Council.

Journal - Northeastern Agricultural Economics Council v. 12 (1): p. 13-20; 1983. Includes 5 references.

*Language:* English

*Descriptors:* North Eastern States (USA); Transportation; Regulation; Carrier competition; Rates; Freight rates; Agricultural trade; Trucking

*Abstract:* Extract: Deregulation and reregulation of transportation is one of the most significant policy

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developments of recent years. It is important to understand the impacts of such changes on the availability of transportation services to agriculture, small communities, and rural areas. In this paper the experiences of shipper/receivers, carriers, private carriers, and agricultural truck brokers in Florida, the first state to deregulate nonpassenger motor carrier transport, are examined. Implications of these experiences for the Northeast are drawn. These findings are of particular interest to Maine, the second state to have deregulated nonpassenger transportation.

**102** NAL Call No: **HE355.3.R85P76**  
**Movement of hazardous materials in rural America.**

Russell, E.R. Sr  
University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 147-167; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural areas; Rural roads; Road transport; Hazards; Materials handling; Accidents; Emergencies; Community programs

**103** NAL Call No: **HN79.A14R87**  
**Multicommunity collaboration addresses rural transportation.**

Stommes, E.; Miller, S.; Johnson, C.  
Ames, Iowa : North Central Regional Center for Rural Development.

Rural development news v. 16 (1): p. 24-26; 1992 Jan.

*Language:* English

*Descriptors:* U.S.A.; Transport; Rural communities; Cooperation; Community development

**104** NAL Call No: **HN79.A14R87**  
**National conference develops rural transportation strategy.**

Stommes, E.  
Ames, Iowa : North Central Regional Center for Rural Development.

Rural development news v. 12 (5): p. 1-4; 1988 Nov.

*Language:* English

*Descriptors:* U.S.A.; Rural development; Transport; Public services; Rural communities; Confer-

ences

**105** NAL Call No: **S494.5.D315 1988**  
**A Nebraska rural transportation planning system.**

Linsenkemper, D.; Azzam, A.; Olsen, D.  
Gainesville : Florida Cooperative Extension Service, IFAS, Univ. of Florida, [1988?].

Proceedings of the 2nd International Conference on Computers in Agricultural Extension Programs Fedro S. Zazueta, A.B. (Del) Bottcher, eds. p. 38-43; 1988 Feb. Conference held February 10-11, 1988 at the Grosvenor Resort Hotel, Disney World Village, Lake Buena Vista, Orlando, Florida. Includes references.

*Language:* English

*Descriptors:* Nebraska; Road transport; Rail transport; Rural areas; Models; Computer techniques

**106** NAL Call No: **S27.A3**  
**Nebraska's living snowfence program.**

Nickerson, D.  
Bozeman, Mont. : Montana State University, Cooperative Extension Service.

Great Plains Agriculture [i.e. Agricultural] Council publication (117): p. 195-197; 1986. Paper presented at the "International Symposium on Windbreak Technology," June 23-27, 1986, Lincoln, Nebraska.

*Language:* English

*Descriptors:* Nebraska; Plains; Snow cover; Shelterbelts; Cost benefit analysis; Rural roads

**107** NAL Call No: **S900.B5**  
**Nest ecology of grassland passerines on road rights-of-way in central Illinois.**

Warner, R.E.  
Barking, Eng. : Elsevier Applied Science.  
Biological conservation v. 59 (1): p. 1-7; 1992. Includes references.

*Language:* English

*Descriptors:* Illinois; Passeriformes; Nesting; Road-sides; Roads; Rights of way; Rural areas; Land use

**108** NAL Call No: **S97.R47 v.72 no.4**  
**North Carolina motor carrier's perceptions of service alterations to rural areas following regulatory reform.**

Evans, Sidney H.; Mu'min, Ridgely Abdul; Willis, Harold G.  
North Carolina Agricultural and Technical State University

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Greensboro, N. C. : North Carolina Agricultural and Technical State University; G90 3:M91 vol. 72/no. 4.  
v, 41 p. ; 23 cm. (Research bulletin series ; v. 72, no. 4). "Spring 1982.", Cover. Bibliography: p. 41.

*Language:* English

*Descriptors:* Transportation, Automotive; North Carolina; Carriers; North Carolina

**109** NAL Call No: HC79.E5N3  
**Not just another federal pre-emption case.**

Butcher, C.L.

Albuquerque, N.M. : University of New Mexico School of Law.

Natural resources journal v. 30 (1): p. 217-225; 1990. Literature review. Includes references.

*Language:* English

*Descriptors:* Utah; Rural roads; Federal government; Common lands; Land management; Right of access; Public agencies; Environmental legislation; Courts; Decision making; Case studies

**110** NAL Call No: FICHE S-72  
**Optimal timing for upgrading low-volume rural roads (Forestry).**

Eck, R.W.; Burks, R.S.; Phillips, R.A.

St. Joseph, Mich. : The Society.

Paper - American Society of Agricultural Engineers (Microfiche collection) (fiche no. 83-1617): 1 microfiche : ill; 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

*Language:* English

**111** NAL Call No: KF26.A3574 1979e  
**Oversight on rural transportation : hearing before the Subcommittee on Rural Development of the Committee on Agriculture, Nutrition, and Forestry, United States Senate, Ninety-sixth Congress, first session, October 24, 1979.**

United States Congress Senate Committee on Agriculture, Nutrition, and Forestry Subcommittee on Rural Development.

Washington U.S. Govt. Print. Off.

iii, 92 p. : ill. ; 24 cm.

*Descriptors:* United States; Rural conditions; Transportation; United States

**112** NAL Call No: HE355.3.R85P76  
**Passenger transportation problems in rural areas.**

Kidder, A.E.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 131-144; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural areas; Transport; Demand; Supply balance; Public agencies; Roles; Public services; Finance

**113** NAL Call No: TE229.2.P46  
**Pennsylvania Agricultural Access Network pilot study.**

Pennsylvania, Dept. of Transportation, United States, Federal Highway Administration

Harrisburg, PA : Department of Transportation Commonwealth of Pennsylvania ; Springfield, Va.

: Available from National Technical Information Service.

[67] p. in various pagings : col. ill., col. maps ; 28 cm. September, 1983.

*Language:* English

*Descriptors:* Farm roads; Pennsylvania; Rural development; Pennsylvania

**114** NAL Call No: HC110.P83L63  
**The Pennsylvania agricultural-access program.**

Gillis, W.R.; Beierlein, J.G.

Boulder : Westview Press.

Local infrastructure investment in rural America / edited by Thomas G. Johnson, Brady J. Deaton, and Eduardo Segarra. p. 131-134; 1988.

*Language:* English

*Descriptors:* Pennsylvania; Rural roads; Bridges; Infrastructure; Extension activities; Development projects; Community development; Case studies

**115** NAL Call No: HE355.3.R85F56  
**Pennsylvania's agricultural access study.**

TenEyck, T.E.; Lebo, D.E.

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman

## Quick Bibliography Series

Walzer. p. 159-166; 1986. Includes references.

*Language:* English

*Descriptors:* Pennsylvania; Rural roads; Bridges; Local government; State government; Cooperation; Agricultural regions; Agribusiness; Legislation; Public finance

**116** NAL Call No: TE250.N38  
**Performance of soil-aggregate-fabric systems in frost-susceptible roads, Linn County, Iowa.**

Hoover, J.M.; Pitt, J.M.; Handfelt, L.D.; Stanley, R.L.

Washington, D.C. : National Academy of Sciences, 1981.

General soils problems / Transportation Research Board, Commission on Sociotechnical Systems, National Research Council. p. 6-14. ill; 1981. 10 ref.

*Language:* English

*Descriptors:* Iowa

**117** NAL Call No: HE355.3.R85P76  
**Planning rural transportation systems: applications of a statewide network model.**

Linsenmeyer, D.; Azzam, A.; Olsen, D.

University Park : Pennsylvania State University Press.

Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 172-191; 1989. Includes references.

*Language:* English

*Descriptors:* Nebraska; Rural roads; Networking; Models; Rail transport; Computer software; Pilot projects

**118** NAL Call No: HE5614.2.F7  
**Planning techniques for intercity transportation services.**

Fravel, Frederic D.; Burkhardt, Jon E.; Menzer, R. Eric

United States, Dept. of Transportation, Office of Technology and Planning Assistance, Ecosometrics, Inc, Technology Sharing Program (U.S.).

Washington, D.C. : U.S. Dept. of Transportation, Office of Technology and Planning Assistance : [Distributed through the U.S. Dept. of Transportation's Technology Sharing Program],

111 p. : ill. ; 28 cm. Final report. July 1987. DOT-I-87-22. Bibliography: p. 109-111.

*Language:* English

*Descriptors:* Bus lines; Planning; Rural transit; Planning; Rural transit; Costs; Urban transportation; Planning

**119** NAL Call No: S544.3.O5O5  
**Primary sources of county road funding.**

Lansford, N.H. Jr; Willett, D.A.

Stillwater, Okla. : The Service.

OSU extension facts - Cooperative Extension Service, Oklahoma State University (889): 8 p.; 1992 Oct.

*Language:* English

*Descriptors:* Local government; Roads; Road construction; Funds; Taxes

**120** NAL Call No: 282.9 G7992  
**Problems and potentials of moving grains from the Great Plains to world markets.**

Brannan, M.P.

Lincoln, Neb. : The Council.

Proceedings - Great Plains Agricultural Council. p. 180-194; 1989.

*Language:* English

*Descriptors:* Western states of U.S.A.; South central states of U.S.A.; Grain; World markets; Exports; Supply balance; Infrastructure; Rural roads; Agricultural policy; Market competition; Transport; Land use

**121** NAL Call No: HE4351.K43  
**Profit implications of joint development three institutional approaches.**

Keefer, Louis E.

United States, Urban Mass Transportation Administration, Office of Planning Assistance, Technology Sharing Program (U.S.)

Washington, D.C. : U.S. Dept. of Transportation : Distributed in cooperation with Technology Sharing Program, Office of the Secretary of Transportation; TD 1.20/8:84-50.

vi, 49 p. : ill. ; 28 cm. Final report. November 1984. Distributed to depository libraries in microfiche. DOT-I-84-50. Bibliography: p. 41-49.

*Language:* English

*Descriptors:* Joint ventures; United States; Local transit; United States; Finance; Local transit; United States; Stations; Real estate development; United States; Development rights transfer; United States; Unearned increment; United States

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**122** NAL Call No: HE355.3.R85P76  
**Profitability and mobility in rural America successful approaches to tackling rural transportation problems.**

Gillis, William R.  
University Park : Pennsylvania State University Press,  
vi, 246 p. : ill. ; 24 cm. Includes bibliographical references.

*Language:* English

*Descriptors:* Rural roads; United States; Rural transit; United States

**123** NAL Call No: 100 OK4 (5)  
**Public transit systems for rural Oklahoma.**

Fountain, E.A.; Doeksen, G.A.  
Stillwater, Okla. : The Station.  
Oklahoma current farm economics - Oklahoma, Agricultural Experiment Station v. 58 (4): p. 28-38; 1985 Dec. Includes 3 references.

*Language:* English

*Descriptors:* Oklahoma; Public services; Transport; Rural areas; Resources; Vehicles; Costs

**124** NAL Call No: 1.90 C2OU8  
**Public/private cooperation in rural roadway improvements (Includes bridges, USA).**

Lebo, D.E.; McWilliams, R.T.  
Washington : U.S. Government Printing Office.  
Proceedings - Agricultural Outlook Conference, U.S. Department of Agriculture (60th): p. 747-758; Dec 1983. Presented at the Outlook '84 Conference, Washington, D.C., October 31-November 3, 1983. Includes statistical data. Includes references.

*Language:* English

*Descriptors:* USA

**125** NAL Call No: HE308.P8  
**Public-private partnerships in transportation a casebook for local elected officials.**

Comsis Corporation, Louis E. Keefer Associates, United States, Dept. of Transportation, Office of Technology and Planning Assistance  
Washington, D.C. : U.S. Dept. of Transportation : Technology Sharing Program [distributor]; TD 1.20/8-86-15.  
x, 155 p. : ill., maps ; 22 x 28 cm. Final report. Distributed to depository libraries in microfiche. February 1986. DOT-I-86-15. Includes

bibliographies.

*Language:* English

*Descriptors:* Urban transportation policy; United States; Local transit; United States; Contracting out; Employer-sponsored transportation; United States; Paratransit services; United States; Privatization; United States; Urban transportation policy; United States; Citizen participation

**126** NAL Call No: 275.29 IO9PA  
**Quantities of grain and fertilizer requiring transportation: 1985-1988 and projections to 1992-1993 by counties in Iowa.**

McVey, M.J.; Baumhover, S.B.; Baumel, C.P.  
Ames, Iowa : The Service.  
PM - Iowa State University, Cooperative Extension Service (1408): 55 p.; 1990 Dec. Includes statistical data. Includes references.

*Language:* English

*Descriptors:* Iowa; Grain crops; Fertilizers; Transport; Production; Statistics; Livestock numbers

**127** NAL Call No: HD101.S6  
**Quasi-experimental designs for measuring impacts of developmental highways in rural areas.**

Broder, J.M.; Taylor, T.D.; McNamara, K.T.  
Experiment, Ga. : The Association.  
Southern journal of agricultural economics - Southern Agricultural Economics Association v. 24 (1): p. 199-207; 1992 Jul. Includes references.

*Language:* English

*Descriptors:* Georgia; Rural roads; Rural development; Economic impact; Decision making; Economic development; Regression analysis; Income; Rural population; Taxes; Rural economy; Local planning

*Abstract:* Quasi-experimental techniques were developed to provide decision-making tools for documenting the impacts of developmental highways in rural areas. Regression discontinuity analysis (RDA) with limited observations was used to compare economic changes in Highway counties to those in adjacent and non-adjacent control counties. The RDA models found statistically significant changes in population, per capita income, and taxable sales related to highway development. The study found that some counties benefitted from developmental highways, some were unchanged, while some experienced economic decline. RDA models with adjacent controls had

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better explanatory powers while those with non-adjacent controls were more sensitive to highway-related changes in economic activity. When significant non-highway activities were present, adjacent control models may have understated highway-related impacts, while non-adjacent control models may have overstated these impacts. Arguments for using adjacent and non-adjacent experimental designs are discussed.

**128** NAL Call No: aHF1414.U5T7  
**Railroad deregulation: overview and issues.**

Sorenson, L.O.

Washington, D.C. : The Service.

Transportation and competitiveness of U.S. agricultural products in world markets : proceedings of a research symposium, October 1986. p. 20-27; 1987 Dec. (Staff report / United States Department of Agriculture, ERS ; no. AGES870612). Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rail transport; Agricultural trade; Deregulation; Legislation; Bankruptcy; Rural areas; Economic impact; Structural change; Competition; Research projects; Planning of research

**129** NAL Call No: HE5405.N49 1990  
**Railroads recycled How local initiative and federal support launched the Rails-to-Trails movement 1965-1990.**

Nevel, Bonnie; Harnik, Peter

Rails-to-Trails Conservancy

Washington, DC : Rails-to-Trails Conservancy.,  
100 p. : ill., maps ; 22 cm.

*Language:* English

*Descriptors:* United States; Description and travel; Railroads; Trails

**130** NAL Call No: aHN90.C6R78  
**Rebuilding rural roads and bridges.**

Walzer, N.; Chicoine, D.L.; McWilliams, R.T.

Washington, D.C. : U.S. Department of Agriculture, Economic Research Service.

Rural development perspectives : RDP v. 3 (2): p. 15-20. ill; 1987 Feb. Includes references.

*Language:* English

*Descriptors:* North central states of U.S.A.; Western states of U.S.A.; Rural roads; Bridges; Repairing; Construction; Maintenance; Costs; Fiscal policy

**131** NAL Call No: aHE5623.S7  
**Reconnecting rural America report on rural intercity passenger transportation. (Report on rural intercity passenger transportation.)**

Stommes, Eileen S.

Washington, D.C. : Office of Transportation, U.S. Dept. of Agriculture.,  
iv, 96 p. : maps ; 28 cm. August 1988.

*Language:* English

*Descriptors:* Rural transit; United States

**132** NAL Call No: HD1775.O5O3  
**Regional and community aspects of prospective changes of transportation supplies in the Great Plains.**

Updaw, N.J.; Mennem, G.M.

Stillwater, Okla., The Department.

A. E. paper - Oklahoma State University, Dept. of Agricultural Economics (8087): 23 p.; July 1980. 12 ref.

*Descriptors:* Transportation; Railroads; Abandonment; Freight rates; Economic impact; Rural areas

**133** NAL Call No: HE4351.R4  
**A Review of accounting software for transit.**

Peat, Marwick, Mitchell & Co, United States, Urban Mass Transportation Administration, Office of Methods and Support

Washington, DC : The Administration ; [Springfield, Va. : Available through the National Technical Information Service; TD 7.11:DC-06-0499-86-1.

iv, 79, [1] p. : forms ; 28 cm. (Microcomputers in transportation). "Mark Goldman", Technical rept. documentation p. [80]. "UMTA Technical Assistance Program", Cover. February 1986. "UMTA-DC-06-0499-86-1", Technical rept. documentation p. [80].

*Language:* English

*Descriptors:* Local transit; Accounting; Data processing; Bus lines; Accounting; Data processing; Microcomputers

**134** NAL Call No: 58.8 J82  
**A review of force prediction methods for off-road wheels.**

Plackett, C.W.

London : Academic Press.

Journal of agricultural engineering research v. 31 (1): p. 1-29. ill; 1985 Jan. Includes 66 references.

## Transportation Services in Rural Areas

*Language:* English

*Descriptors:* Farm roads; Rural roads; Wheel weights; Rolling resistance; Pneumatic power

**135** NAL Call No: 275.29 OH32TI  
**Road sign vandalism and theft along county roads in Ohio.**

Donnermeyer, J.F.; Cox, .D.; Wurschmidt, T.N.  
OH

Columbus, The Service.

Socio-economic information - Cooperative Extension Service, Ohio State Univ, Agricultural Economics and Rural Sociology (624): p. 3-4; Aug 1980.

*Language:* English

*Descriptors:* Ohio

**136** NAL Call No: TE220.S7  
**Road surface management for local governments resource notebook : final report.**

Stephens, Louis B.

United States, Office of Highway Planning  
Washington, D.C. : Federal Highway Administration : Distributed in cooperation with Technology Sharing Program, Office of the Secretary of Transportation,.

1 v. (loose-leaf) : ill., forms ; 29 cm. Distributed to depository libraries in microfiche. May 1985. DOT-I-85-37. Includes bibliographies.

*Language:* English

*Descriptors:* Pavements; Maintenance and repair; Management; Pavements; Maintenance and repair; Handbooks, manuals, etc; Low-volume roads; Maintenance and repair; Management

**137** NAL Call No: 282.9 G7992  
**The role of state government in rural rail systems.**

Lamberton, C.E.

?n.p.?

Proceedings - Great Plains Agricultural Council. p. 13-16; June 9, 1981.

*Language:* English

*Descriptors:* State government; Planning; Railroads; Rural areas

**138** NAL Call No: aHN90.C6R78  
**Rural America benefits from airline deregulation, but less than urban America.**

Murphy, P.V.; Watkins, W.S.

Washington, D.C. : U.S. Department of Agricul-

ture, Economic Research Service.

Rural development perspectives v. 3 (1): p. 2-7. ill., maps; 1986 Oct. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural areas; Deregulation; Air transport; Inflation; Economic behavior

**139** NAL Call No: KF27.P89632 1987a  
**Rural and specialized transit safety hearing before the Subcommittee on Investigations and Oversight of the Committee on Public Works and Transportation, House of Representatives, One Hundredth Congress, first session, November 5, 1987.**

United States. Congress. House. Committee on Public Works and Transportation. Subcommittee on Investigations and Oversight

Washington, [D.C.] : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O.; Y 4.P 96/11:100-30.

iii, 98 p. ; 24 cm. Distributed to some depository libraries in microfiche. 100-30.

*Language:* English

*Descriptors:* Rural transit; United States; Safety measures; Aged; United States; Transportation; Safety measures; Physically handicapped; United States; Transportation; Safety measures

**140** NAL Call No: 275.29 OH32TI  
**Rural bridge and road rehabilitation/closure.**

Hitzhusen, F.J.; Nyammah, K.B.

OH

Columbus, The Service.

Socio-economic information - Cooperative Extension Service, Ohio State Univ, Agricultural Economics and Rural Sociology. Ohio State University. Cooperative Extension Service. Agricultural Economics and Rural Sociology (621): 6 p.; Apr/May 1980.

*Language:* English

**141** NAL Call No: aTG315.M37  
**Rural bridges an assessment based upon the National Bridge Inventory.**

Marathon, Nicholas

United States, Dept. of Agriculture, Office of Transportation

Washington, D.C. : Office of Transportation, U.S. Dept. of Agriculture,.

26 p. ; 28 cm. (Transportation report). Caption title. August 1989. Includes bibliographical refer-

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ences.

*Language:* English

*Descriptors:* Bridges; United States; Bridges; United States; Maintenance and repair

**142** NAL Call No: **HQ1063.5.H69**  
**Rural elderly transportation services a self-evaluation checklist.**

Howard, David M.; Bull, C. Neil  
Kansas City, MO : National Resource Center for Rural Elderly, University of Missouri-Kansas City, 1991.

19 p. ; 28 cm. Supported by a grant from the Administration on Aging. Printed 1990, reprinted 1991.

*Language:* English

*Descriptors:* Rural aged; Evaluation research (Social action programs)

**143** NAL Call No: **aHE355.3.R85M3**  
**Rural highway finance federal funding for interstate and non-interstate highways in rural areas. (Federal funding for interstate and non-interstate highways in rural areas.)**

Marathon, Nicholas; Norton, Jerry D.  
United States, Dept. of Agriculture, Office of Transportation  
Washington, D.C.? : U.S. Dept. of Agriculture, Office of Transportation, [1988?].

20 p. : ill. ; 28 cm. (Transportation facts). Cover title. September 1988. Prepared for the Subcommittee on Agriculture, Rural Development, and Related Agencies of the Committee on Appropriations, United States Senate.

*Language:* English

*Descriptors:* Roads; United States; Finance; Rural roads; United States; Finance; Intergovernmental fiscal relations

**144** NAL Call No: **HE355.3.R85F56**  
**Rural highway finance: state and local innovation.**

Bivens, W.E. III

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 199-217; 1986. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Bridges; Public finance; State government; Local government; Innovations; Maintenance; Taxes

**145** NAL Call No: **HE355.3.R85F56**  
**The rural infrastructure problem: a national perspective.**

Reid, J.N.; Sullivan, P.J.

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 17-32; 1986. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural areas; Infrastructure; Rural roads; Public services; Public finance; Supply balance; Fixed capital; Information sources; Rural planning

**146** NAL Call No: **aHE199.9.R82**  
**Rural intercity passenger transportation report on the Eastern regional symposium. (Transportation facts.)**

United States, Dept. of Agriculture, Office of Transportation

Eastern Regional Symposium on Rural Intercity Passenger Transportation 1988 : Annapolis, Md. Washington, D.C. : The Office.,

41, [38] leaves ; 28 cm. Caption title. "This report summarizes the results of the Eastern Regional Symposium on Rural Intercity Passenger Transportation held in Annapolis, Maryland on April 18-20, 1988.", Foreword. July 1988. Transportation facts. Includes bibliographical references.

*Language:* English

*Descriptors:* Rural transit; United States; Congresses; Transportation; United States; Passenger traffic; Congresses

**147** NAL Call No: **aHE199.9.R83**  
**Rural intercity passenger transportation report on the North Central regional symposium. (Transportation facts.)**

United States, Dept. of Agriculture, Office of Transportation

North Central Regional Symposium on Rural Intercity Passenger Transportation 1987 : Des Moines, Iowa.

Washington, D.C. : The Office.,

43, [1] p. ; 28 cm. Caption title. "This report summarizes the results of the North Central Regional Symposium on Rural Intercity Passenger Transportation held in Des Moines, Iowa, on December 7-9, 1987.", Foreword. March 1988. Transportation facts. Includes bibliographical references.



## Transportation Services in Rural Areas

*Language:* English

*Descriptors:* Rural transit; United States; Congresses; Transportation; United States; Passenger traffic; Congresses; United States; Rural conditions; Congresses

**148** NAL Call No: aHE199.9.R8  
**Rural intercity passenger transportation report on the Western regional symposium. (Transportation facts.)**

United States, Dept. of Agriculture, Office of Transportation

Western Regional Symposium on Rural Intercity Passenger Transportation 1988 : San Francisco, Calif.

Washington, D.C. : The Office,.

44, [36] p. ; 28 cm. Caption title. "This report summarizes the results of the Western Regional Symposium on Rural Intercity Passenger Transportation held in San Francisco, California on May 18-20, 1988", Foreword. September 1988. Transportation facts. Includes bibliographical references.

*Language:* English

*Descriptors:* Rural transit; United States; Congresses; Transportation; United States; Passenger traffic; Congresses

**149** NAL Call No: HE11.N5 1981  
**Rural public transportation : fifth national conference proceedings.**

National Research Council, Transportation Research Board.

National Conference on Rural Public Transportation 1981 Humboldt State University National Conference on Rural Public Transportation 1981 Humboldt State University National Conference on Rural Public Transportation 1981 Humboldt State University.

Washington, D.C. National Academy of Sciences. vi, 102 p. : ill. ; 28 cm. (Transportation research record 0361-1981 831). Reports presented at the 5th National Conference on Rural Public Transportation, held Aug. 18-20, 1981, at Humboldt State University, Arcata, Calif. Includes bibliographies.

*Language:* English

*Descriptors:* Rural transit; Congresses

**150** NAL Call No: HE5633.P4R8  
**Rural public transportation performance evalua-**

**tion guide final report.**

Carter-Goble Associates, Pennsylvania, Bureau of Public Transit and Goods Movement Systems, Technology Sharing Program (U.S.)

Washington, D.C. : Technology Sharing Program, Office of the Secretary of Transportation, [distributor,.

1 v. (various pagings) : ill. ; 28 cm. Distributed to depository libraries in microfiche. November 1982. DOT-I-83-31. Bibliography: p. [B-23].

*Language:* English

*Descriptors:* Local transit; Pennsylvania

**151** NAL Call No: 100 T25F  
**Rural public transportation: profiles of potential client characteristics among rural elderly (in eastern Tennessee).**

Orr, R.H.; Lynch, M.

Knoxville, Tenn. : The Station.

Tennessee farm and home science - Tennessee Agricultural Experiment Station (125): p. 22-25; Jan/Mar 1983. Includes references.

*Language:* English

*Descriptors:* Tennessee

**152** NAL Call No: 280.8 J822  
**Rural road abandonment: policy criteria and empirical analysis.**

Hamlett, C.A.; Baumel, C.P.

Ames, Iowa : American Agricultural Economics Association.

American journal of agricultural economics v. 72 (1): p. 114-120; 1990 Feb. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Local government; Welfare economics; Infrastructure; Decision making; Utility functions; Cost benefit analysis; Mathematical models

*Abstract:* Deterioration and changing use patterns of the rural road system have coalesced into difficult policy decisions for local government officials. One option for consideration is abandonment of some low-volume roads. A model is developed, using utility maximization and Pareto-optimal criteria, that allows identification of policy criteria for abandonment. The criteria are empirically estimated and 4% to 12% of the roads were found to be good candidates for abandonment without a net social loss.

## Quick Bibliography Series

**153** NAL Call No: **HN90.C6N4**  
**Rural roads and bridges.**

Berg, G.L. Jr

Washington, D.C. : U.S. G.P.O. : for sale by the Supt of Docs, Congressional Sales Off.

New dimensions in rural policy : building upon our heritage : studies prepared for the use of the Subcommittee on Agriculture and Transportation of the Joint Economic Committee, Congress of the United States. p. 396-402; 1986. (S. prt. ; 99-153).

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Bridges; Deterioration; Infrastructure; Transport; Federal government

**154** NAL Call No: **aHE336.R85W36**  
**Rural roads and bridges a dilemma for local officials.**

Walzer, Norman; Chicoine, David L.

United States, Dept. of Agriculture, Office of Transportation

Washington, D.C. : U.S. Dept. of Agriculture, Office of Transportation,.

xv, 183 p. : forms ; 28 cm. April 1989.

*Language:* English

*Descriptors:* Rural roads; United States; Finance; Bridges; United States; Finance

**155** NAL Call No: **HD1751.C45**  
**Rural roads and bridges: an emerging crisis.**

Hamlett, C.A.; Baumel, C.P.

Ames, Iowa : American Agricultural Economic Association.

Choices : the magazine of food, farm and resource issues v. 5 (2): p. 4-6. ill; 1990.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Bridges; Infrastructure; Budgets; Maintenance; Rural planning; Politics; Local government

**156** NAL Call No: **aHE356.A14W35**  
**Rural roads and bridges in the Midwest finance and administration by counties.**

Walzer, Norman; Chicoine, David L.

United States, Dept. of Agriculture, Office of Transportation

Washington, D.C. : Office of Transportation, U.S. Dept. of Agriculture,.

xi, 118 p. : form ; 28 cm. July 1987.

*Language:* English

*Descriptors:* Rural roads; Middle West; Finance; Bridges; Middle West; Finance

**157** NAL Call No: **HE355.3.R85F56**  
**Rural roads and bridges: link to agriculture.**

Berg, G.L. Jr

New York : Praeger.

Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 167-183; 1986. Includes references.

*Language:* English

*Descriptors:* Pennsylvania; Tennessee; Rural roads; Bridges; Agricultural production; Transport; Public finance; Funds

**158** NAL Call No: **aHF1414.U5T7**  
**Rural roads and bridges: necessary for the nation's growth and competitiveness.**

McWilliams, R.T.

Washington, D.C. : The Service.

Transportation and competitiveness of U.S. agricultural products in world markets : proceedings of a research symposium, October 1986. p. 59-68. maps; 1987 Dec. (Staff report / United States Department of Agriculture, ERS ; no. AGES870612). Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Bridges; Economic development; Market competition; World markets; Rural economy; Research

**159** NAL Call No: **aHE336.R85W3**  
**Rural roads and bridges where do we go from here?**

Walzer, Norman; Chicoine, David L.

United States, Dept. of Agriculture, Office of Transportation

Washington, D.C. : U.S. Dept. of Agriculture, Office of Transportation,.

vi, 33 p. : ill. ; 28 cm. September 1990. Includes bibliographical references (p. 32).

*Language:* English

*Descriptors:* Rural roads; Bridges

**160** NAL Call No: **HD1761.A1M5 no.92-25**  
**Rural roads, investment and disinvestment in a Minnesota County.**

Fruin, Jerry; Halbach, Dan

St. Paul, Minn. : Dept. of Agricultural and Applied Economics, University of Minnesota, College of Agriculture,.

## Transportation Services in Rural Areas

32 p. : ill. ; 28 cm. (Staff paper P ; no. 92-25).  
October 1992. Includes bibliographical references  
(p. 31-32).

*Language:* English

**161** NAL Call No: HE355.3.R85F56

**Rural transportation: a look at the future.**

Larsen, M.B.

New York : Praeger.

Financing local infrastructure in nonmetropolitan  
areas / edited by David L. Chicoine and Norman  
Walzer. p. 219-233; 1986. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Local govern-  
ment; Public finance; History; Regional policy

**162** NAL Call No: HE4351.R8

**Rural transportation accounting a model uniform  
accounting system for rural and specialized trans-  
portation providers : final report.**

Transportation Accounting Consortium, Michigan,  
Dept. of Social Services, United States, Dept. of  
Transportation

Washington, D.C.? : U.S. Dept. of Transportation  
: Distributed by Technology Sharing Program, Of-  
fice of the Secretary of Transportation, 1987?

1 v. (various pagings) : ill., forms ; 28 cm. Activities  
supported by Federal Highway Administration and  
Urban Mass Transportation Administration, U.S.  
Department of Transportation, and U.S. Depart-  
ment of Health and Human Services. Distributed  
to depository libraries in microfiche. October 1986.  
DOT-I-87-08.

*Language:* English

*Descriptors:* Rural transit; United States; Account-  
ing; Handbooks, manuals, etc; Rural transit;  
United States; Finance; Handbooks, manuals, etc;  
Paratransit services; United States; Accounting;  
Handbooks, manuals, etc

**163** NAL Call No: 1 AG84Y

**Rural transportation: how to get help.**

Kaye, I.

Washington, D.C., The Department.

The Yearbook of agriculture - United States Dept.  
of Agriculture. p. 267-276; 1980. 2 ref.

*Language:* English

*Descriptors:* USA

**164** NAL Call No: HT401.S72

**Rural transportation in the future: Country roads  
or satellites?**

Hobbs, D.

Mississippi State, Miss. : The Center.

SRDC series - Southern Rural Development Cen-  
ter (81): p. 61-66; 1986 Apr. Paper presented at  
Conference on "Emerging issues in the rural eco-  
nomy of the South" January 13-14, 1986, Birming-  
ham, Alabama.

*Language:* English

*Descriptors:* South central states of U.S.A.; South  
eastern states of U.S.A.; Rural economy; Trans-  
port; Telecommunications; Computers; Informa-  
tion dissemination; Rural communities;  
Centralization; Decentralization; Infrastructure;  
Structural change; Rural roads

**165** NAL Call No: 282.9 G7992

**Rural transportation options in the Great Plains  
- producer strategies: discussion of paper by Art  
Sogn.**

Anderson, D.E.

?n.p.?

Proceedings - Great Plains Agricultural Council. p.  
61-62; July 15, 1980.

*Language:* English

*Descriptors:* Transportation; Rural areas

**166** NAL Call No: S451.N7A5

**Safety rules for rural roads.**

Belmont, N.Y. : Cornell Cooperative Extension.

Allegany agriculture v. 15 (7): p. 9; 1990 Aug03.

*Language:* English

*Descriptors:* Safety; Farm roads

**167** NAL Call No: HE11.N5 1985

**The seventh National Conference on Rural Public  
Transportation final report.**

Ecosometrics, inc, United States, Dept. of Trans-  
portation, Office of Technology and Planning As-  
sistance, Technology Sharing Program  
(U.S.), United States, Urban Mass Transportation  
Administration

National Conference on Rural Public Transporta-  
tion 7th : 1985 : Lawrence, Kan.

Washington, D.C. : U.S. Dept. of Transportation :  
Distributed through the U.S. Dept. of Transporta-  
tion's Technology Sharing Program,.

132, [31] p. : ill., 1 folded chart, forms ; 28 cm.  
Conference was held in Lawrence, Kan., Sept. 8-11,  
1985 and sponsored by the Urban Mass Transpor-

## Quick Bibliography Series

tation Administration in cooperation with the American Association of State Highway and Transportation Officials ... et al. February 1987. DOT-I-86-19.

*Language:* English

*Descriptors:* Rural transit; United States; Congresses

**168** NAL Call No: **KF26.C698 1986**  
**Short line and regional railroads hearing before the Subcommittee on Surface Transportation of the Committee on Commerce, Science, and Transportation, United States Senate, Ninety-ninth Congress, second session, on establishment of new short line and regional railroads, July 25, 1986.** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Surface Transportation  
Washington, [D.C.] : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O.,  
iii, 102 p. ; 24 cm. (S. hrg. ; 99-951). Distributed to some depository libraries in microfiche. Item 1041-A, 1041-B (microfiche). Includes bibliographical references.

*Language:* English

*Descriptors:* Railroads, Local and light; United States; Railroads; United States; Finance

**169** NAL Call No: **HE355.3.R85P76**  
**A short-line solution to rail branch line abandonment: a comparative case study.**  
Bahn, H.M.  
University Park : Pennsylvania State University Press.  
Profitability and mobility in rural America : successful approaches to tackling rural transportation problems / edited by William R. Gillis. p. 209-223; 1989. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rail transport; Rural areas; Profit and loss analysis; Case studies; Employment; Income; Infrastructure; Rural roads; Economic impact; Rural economy

**170** NAL Call No: **HE5618.S5 1986**  
**Simplifying human service transportation and small transit system accounting. (Simplifying human service transportation and small transit system accounting: an eight state perspective.), Rev. ed., Apr. 1986.**

Transportation Accounting Consortium, United States, Dept. of Transportation  
Washington, D.C. : Transportation Accounting Consortium : U.S. Dept. of Transportation's Technology Sharing Program [distributor],  
vi, 101 p. : ill., forms ; 28 cm. Cover title: Simplifying human service transportation and small transit system accounting : an eight state perspective. "Sponsored by U.S. Department of Transportation, U.S. Department of Health and Human Services", Cover. Distributed to depository libraries in microfiche. "DOT-I-83-25R", P. [3] of cover. Includes bibliographies.

*Language:* English

*Descriptors:* Paratransit services; United States; Accounting; Rural transit; United States; Accounting; Social service; United States; Accounting

**171** NAL Call No: **HE5614.3.M5G74**  
**Small transit system management handbook. (Michigan small transit system management handbook Michigan public transportation program.)**  
Grimes, Grovenor  
United States, Dept. of Transportation, Office of the Secretary, Michigan, Dept. of Transportation  
Washington, D.C. : U.S. Dept. of Transportation, Office of the Secretary of Transportation ; Springfield, Va. : Available through the National Technical Information Service; TD 1.49:T 68/2.  
292 p. : ill. ; 28 cm. "Michigan small transit system management handbook", T.p. verso. At head of title: Michigan public transportation program. "Prepared for Michigan Department of Transportation", Cover. Update and revision of Michigan small bus program management handbook (Sept. 1979). December 1985. Includes index. "DOT-I-86-32", P. 4 of cover.

*Language:* English

*Descriptors:* Local transit; Michigan; Management; Handbooks, manuals, etc; Rural transit; Michigan; Management; Handbooks, manuals, etc

**172** NAL Call No: **1 F766F1**  
**Smoke from smoldering fires, a road hazard.**  
Lavdas, L.G.  
Washington, D.C. : The Service.  
Fire management notes - U.S. Department of Agriculture, Forest Service v. 50 (1): p. 59-62. ill; 1989. Includes references.

*Language:* English

## Transportation Services in Rural Areas

*Descriptors:* Georgia; North Carolina; Smoke; Air pollution; Forest fires; Rural roads; Hazards; Coastal areas; Case studies

**173** NAL Call No: S51.E22  
**Some economic impacts of developmental high-ways in rural Georgia.**

Taylor, T.D.; Broder, J.M.; McNamara, K.T.  
Athens, Ga. : The Stations.  
Research report - University of Georgia, College of Agriculture, Agricultural Experiment Stations (583): 16 p. maps; 1990 May. Includes references.

*Language:* English

*Descriptors:* Georgia; Rural areas; Roads; Development; Economic impact

**174** NAL Call No: HD1775.S8R47 no.91-10  
**South Dakota's rural roads.**

Lamberton, C. E.  
South Dakota State University, Economics Dept  
Brookings, S.D. : Economics Dept., South Dakota State University.,  
16 leaves ; 28 cm. (Research report (South Dakota State University. Economics Dept.) ; no. 91-10.).  
February 1992. Includes bibliographical references (leaf 16).

*Language:* English

*Descriptors:* Rural roads; Roads, Gravel; Low-volume roads

**175** NAL Call No: HE355.3.R85F56  
**State and federal management assistance.**

Schmitt, R.P.  
New York : Praeger.  
Financing local infrastructure in nonmetropolitan areas / edited by David L. Chicoine and Norman Walzer. p. 127-141; 1986. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Rural roads; Bridges; Management; State government; Federal government; Maintenance; Skills; Training; Program development

**176** NAL Call No: TE12.S73  
**State and local highway training and technology resources.**

United States, Federal Highway Administration, Offices of Research Development and Technology, National Highway Institute (U.S.)  
McLean, Va. : Research, Development and Technology ; [Washington, D.C.?] : National Highway

Institute.  
xxxviii, 235 p. ; 28 cm. July 1988. RT-88-001.

*Language:* English

*Descriptors:* Highway engineering; Directories

**177** NAL Call No: HE5405.J65  
**State rural transportation programs in an era of contraction. (New alliances for rural America.)**

Johnson, Thomas G.  
National Governors' Association, Task Force on Rural Development  
Washington, D.C. : National Governors' Association.,  
vii, 47 p. ; 28 cm. "New alliances for rural America : background paper submitted to the Task Force on Rural Development, National Governors' Association.", Cover. Bibliography: p. 43-44.

*Language:* English

*Descriptors:* Rural transit; United States; States; Economic aspects; Rural development; United States; States

**178** NAL Call No: HE4301.H4  
**Strategic planning in small and medium-size transit agencies a discussion of practice and issues.**

Hemily, Brendon  
United States, Urban Mass Transportation Administration, University Research and Training Program, Technology Sharing Program (U.S.)  
Washington, D.C. : The Administration.,  
115 p. : charts ; 28 cm. Final report. August 1986. Bibliography: p. [107]-109.

*Language:* English

*Descriptors:* Local transit; United States; Management; Local transit; United States; Planning; Strategic planning

**179** NAL Call No: HT401.S72  
**Strategies in transportation financing.**

Johnson, T.G.  
Mississippi State, Miss. : The Center.  
SRDC series - Southern Rural Development Center (135): p. 63-65; 1990 Sep. Paper presented at the regional conference "Community Strategies for Tomorrow's Local Infrastructure," May 1-3, 1990, Birmingham, Alabama. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Transport; Rural areas; State government; Local government; Financial planning

## Quick Bibliography Series

**180** NAL Call No: HC107.A13A6

**Students use politics and PR to preserve covered bridge.**

Clark, W.

Washington, D.C. : Appalachian Regional Commission.

Appalachia v. 22 (2): p. 40-43. ill; 1989.

*Language:* English

*Descriptors:* Georgia; Bridges; Rural roads; Historical areas and sites; Preservation; Public relations; High school students; Case studies; Political attitudes

**181** NAL Call No: HD1761.A1M5 no.92-16

**A summary of research studies on the community impacts of rail abandonment in the Midwest.**

Fruin, Jerry

University of Minnesota, Dept. of Agricultural and Applied Economics

St. Paul, Minn. : Dept. of Agricultural and Applied Economics, University of Minnesota, College of Agriculture,.

42 p. ; 28 cm. (Staff paper P ; 92-16). "July 1992." Cover. Includes bibliographical references (p. 41-42).

*Language:* English

*Descriptors:* Railroads; Rural transportation

**182** NAL Call No: HE336.H48S9

**Summary report. (Virginia Agri-Access Network pilot study summary report.)**

Va. : s.n.,.

26 p. ; 28 cm. Cover title: Virginia Agri-Access Network pilot study summary report. Prepared entirely from data presented in Virginia Agri-Access Network pilot study final report. April 1986. Includes bibliographical references (p. 9).

*Language:* English

*Descriptors:* Highway capacity; Rural roads; Bridges; Highway research

**183** NAL Call No: 1 EX892EX

**Task force for rural transportation.**

Gillis, W.R.

Washington, D.C. : The Administration.

Extension review - United States Department of Agriculture v. 56 (1): p. 12-13. ill; 1985.

*Language:* English

*Descriptors:* Rural areas; Transport; Rural roads; Bridges

**184**

NAL Call No: T174.3.T43

**Technology transfer to transportation and public works agencies: microcomputer support centers.**

Sullivan, E.C.

Los Angeles, Calif. : Technology Transfer Society. International Symposium proceedings. p. 83-91; 1985. In the series analytic: Technology transfer to commercialization / compiled by W. Seden and S. Taper, Meeting held June 1985, San Francisco, California. Includes references.

*Language:* English

*Descriptors:* California; Georgia; Indiana; Iowa; Kansas; Montana; Oklahoma; Vermont; Alabama; Technology transfer; Programs; Transport; Public works; Public agencies; Local government; Rural areas; Rural roads; Microcomputers; Computer software; On line; Databases; Bulletin boards; Electronics; Information centers; Universities

**185**

NAL Call No: S1.M52 no.3

**Time responses and the susceptibility of roadside plants to growth regulation.**

Koukkari, Willard L.

Minnesota Local Road Research Board, Minnesota, Dept. of Transportation

St. Paul?, Minn. : Agricultural Experiment Station, University of Minnesota,.

20 p. : ill. ; 28 cm. (Miscellaneous publication (University of Minnesota (Minneapolis-St. Paul campus). Agricultural Experiment Station) ; 3-1980). Cover title. Investigation no. 649. Bibliography: p. 19-20.

*Language:* English

*Descriptors:* Roadside improvement; Minnesota; Germination; Weed control

**186**

NAL Call No: HE148.S56

**Transport network in rural development.**

Singh, K. N.; Singh, Jagdish

Daupdur, Gorakhpur, India : Institute for Rural Eco-development ; New Delhi, India : UBS Publishers' Distributors,.

171, x p. : ill., maps ; 22 cm. Distributor from label on p. [2] of cover. Includes bibliographical references (p. [i]-x).

*Language:* English

*Descriptors:* Rural transit; Rural development

**187**

NAL Call No: aHE149.T7

**Transportation, a vital link for agriculture and**

## Transportation Services in Rural Areas

**rural America program review 1988.**  
United States, Dept. of Agriculture, Office of Transportation  
Washington, D.C. : The Office,  
20 p. : ill. ; 24 cm. Cover title. "Issued April 1989",  
P. [3] of cover.

*Language:* English

*Descriptors:* Agriculture; United States; Transportation; Farm produce; United States; Transportation; Rural transit; United States

**188** NAL Call No: 100 M69MR  
**Transportation alternatives in rural communities: a feasibility analysis.**

Reinschmiedt, L.L.; Murray, S.W.  
Mississippi State, The Station.  
AEC M.R. - Mississippi Agricultural and Forestry Experiment Station (126): 15 p. ill; Sept 1981. Includes 10 ref.

*Language:* English

**189** NAL Call No: HD101.S6  
**Transportation alternatives in rural communities: a feasibility analysis.**

Reinschmiedt, L.L.; Murray, S.W.  
Gainesville, Fla., Southern Agricultural Economics Assoc.  
Southern journal of agricultural economics v. 13 (2): p. 99-104; Dec 1981. 9 ref.

*Language:* English

*Descriptors:* Rural areas; Transportation; Employment

*Abstract:* Extract: This study examined the current journey-to-work characteristics of three rural Mississippi industrial plants. The costs of the current mode of transportation, which was predominantly single passenger automobiles, were estimated. For two of the three plants, two alternative modes of transportation were examined: car pools and van pools. The research findings show that rural areas do have an alternative to the single-rider automobile. Car pools and van pools were shown to be economically viable alternatives in some instances depending to a large degree upon the population density of the work force.

**190** NAL Call No: 917031(AGE)  
**Transportation alternatives in rural communities: a feasibility analysis.**

Reinschmiedt, L.L.; Murray, S.W.  
Mississippi State, The Station.

AEC research report - Mississippi Agricultural and Forestry Experiment Station (126): 15 p.; Sept 1981. 10 ref.

*Descriptors:* Mississippi; USA; Transportation; Costs; Workers; Rural areas; Alternatives; Feasibility

*Abstract:* Extract: Employee journey to work costs and characteristics for three rural industrial plants were estimated from survey data. Carpools and vanpools were examined as alternative transportation modes for two plants using a lockset transportation algorithm. Carpooling reduced commuting costs for both plants, but vanpooling decreased costs in one and increased costs in the other. Worker population density affected carpool and vanpool cost differences.

**191** NAL Call No: HD1417.1572  
**Transportation as a household resource.**

Magrabi, F.M.  
Champaign-Urbana, Ill. : College of Agriculture, University of Illinois at Urbana-Champaign.  
International agriculture publications, general series (3): p. 97-98; 1987 May.

*Language:* English

*Descriptors:* Gujarat; Agricultural households; Road transport; Rural roads; Resource availability

**192** NAL Call No: HE5633.M8T7  
**Transportation energy contingency plans for rural areas and small communities a report to the Ozarks Regional Commission.**

Dare, Charles E.  
Ozarks Regional Commission (U.S.), Meramec Regional Planning Commission (Mo.), United States, Dept. of Transportation, Technology Sharing Program (U.S.)  
Washington, D.C.? : U.S. Dept. of Transportation; TD 1.20/8:82-24.

vi, 119, [20] p. : ill. ; 28 cm. (Technology sharing reprint series). December, 1981. "DOT-I-82-24", P. [3] of cover. "Distributed through the U.S. Department of Transportation's Technology Sharing Program.", p.[3] of cover. Bibliography: p. 118-119.

*Language:* English

*Descriptors:* Emergency transportation; Transportation; Missouri; Energy conservation; Transportation; Missouri; Planning

**193** NAL Call No: aG4021.P1 1982 .U5 Map  
**Transportation, Great Plains Resource Conserva-**

## Quick Bibliography Series

**tion and Development Area, Jackson, Kiowa, Roger Mills, and Washita Counties, Oklahoma, Rev. Dec. 1981.**

United States. Soil Conservation Service; South Western Oklahoma Development Authority  
Fort Worth, Tex. : USDA-SCS,

1 map : col. ; 40 x 26 cm. Base compiled from AMS topographic map sheets and latest available general highway maps. Shows highways, military, scheduled, and municipal airports. Includes location map. January 1982 4-R-37738. Revised December 1981 4-R-34293 Plates AB.

*Language:* English

*Descriptors:* Transportation; Oklahoma; Maps

**194 NAL Call No: aHE316.U6U5 1991  
Transportation in rural America a policy back-  
grounder.**

United States. Agricultural Marketing Service.  
Transportation and Marketing Division  
Washington, D.C.? : U.S. Dept. of Agriculture,  
Agricultural Marketing Service, Transportation &  
Marketing Division; A 82.2:T 68/2.

ii, 20 p. ; 28 cm. "April 1991", Added t.p. Includes bibliographical references (p. 20).

*Language:* English

*Descriptors:* Rural transportation

**195 NAL Call No: KF26.E6 1987a  
Transportation needs in rural areas hearing  
before the Committee on Environment and Public  
Works, United States Senate, One hundredth  
Congress, first session, August 11, 1987, Minot,  
ND.**

United States. Congress. Senate. Committee on  
Environment and Public Works  
Washington [D.C.] : U.S. G.P.O. : For sale by the  
Supt. of Docs., Congressional Sales Office, U.S.  
G.P.O.,

iv, 171 p. : ill. ; 24 cm. (S. hrg. ; 100-306). Printed  
for the use of the Committee on Environment and  
Public Works. 79-227.

*Language:* English

*Descriptors:* Rural transit; North Dakota; Rural  
roads; North Dakota

**196 NAL Call No: HE5623.T7  
Transportation resource management for rural  
elected officials resource notebook : roads,  
bridges, public transportation.**

United States, Dept. of Transportation

Washington, D.C.? : U.S. Dept. of Transportation;  
TD 1.20/8-85-29.

1 v. (various pagings) : ill., maps ; 28 cm. Cover  
title. Distributed to depository libraries in micro-  
fiche. April 1985. "DOT-I-85-29", P. [3] of cover.  
Bibliography: p. 6-1 - 6-56.

*Language:* English

*Descriptors:* Transportation; United States; Man-  
agement; Rural transit; United States; Manage-  
ment; Resource allocation; Road construction;  
United States

**197 NAL Call No: HN59.2.R87  
Transportation (Rural areas, outlook, USA).**

Kaye, I.

Boulder, Colo. : Westview Press, 1982.

Rural society in the U.S. : issues for the 1980s /  
edited by Don A. Dillman and Daryl J. Hobbs. p.  
156-163; 1982. 10 ref.

*Language:* English

*Descriptors:* USA

**198 NAL Call No: HE316.U6T73 1990  
Transportation service to small rural communi-  
ties effects of deregulation., 1st ed.**

Due, John Fitzgerald

Ames : Iowa State University Press.,

viii, 223 p. : ill. ; 24 cm. Includes index. Bibliogra-  
phy: p. 207-216.

*Language:* English

*Descriptors:* Rural transit

**199 NAL Call No: aZ5071.N3  
Transportation services in rural areas: January  
1979-December 1990.**

John, P.L.C.

Beltsville, Md. : The Library.

Quick bibliography series - U.S. Department of  
Agriculture, National Agricultural Library (U.S.).  
(91-124): 21 p.; 1991 Jul. Updates QB 89-41. Bib-  
liography.

*Language:* English

*Descriptors:* Transport; Public services; Rural  
areas; Bibliographies

**200 NAL Call No: HE5634.S3U8  
Use of microcomputers at North Country [i.e.  
County] Transit District. (Use of microcomputers  
at North County Transit District.)**

Multiplications, Inc, United States, Urban Mass



## Transportation Services in Rural Areas

Transportation Administration, Technical Assistance Program, American Public Transit Association, Technology Sharing Program (U.S.) Washington, D.C. : U.S. Dept. of Transportation : Technology Sharing Program [distributor, i, 34 p. : forms ; 28 cm. "UMTA Technical Assistance Program", Cover. Technical assistance report. June 1984. DOT-I-85-14.

*Language:* English

*Descriptors:* Bus lines; California; San Diego County; Data processing; Microcomputers

**201** NAL Call No: **TE228.5.P38 1986**  
**User's manual for the county road evaluation program volume I.**

Pautsch, Gregory R.; Baumel, C. Phillip  
United States, Dept. of Transportation, University Research Program, Iowa State University, Dept. of Economics, Iowa, Highway Research Board Washington, D.C. : U.S. Dept. of Transportation, University Research Program ; Springfield, Va. : National Technical Information Service., v, 98 p. : ill. ; 28 cm. Performed by the Dept. of Economics, Iowa State University in cooperation with the Iowa Dept. of Transportation and the Iowa Transportation Board. "January 1986", Cover. DTRS-5682-C-00021. Includes bibliographical references (p. 98).

*Language:* English

*Descriptors:* Low-volume roads; Rural roads; Abandonment of property

**202** NAL Call No: **HE5633.N7U84**  
**Using cooperatives to transport rural passengers a study.**

New York (State), Dept. of Agriculture and Markets  
Albany : N.Y. : The Dept., iii, 81, [21] p. : ill. ; 28 cm. October 1984. Bibliography: p. 79-81.

*Language:* English

*Descriptors:* Rural transit; New York (State); Paratransit services; New York (State)

**203** NAL Call No: **281.28 R88**  
**Variations in nonmetro patterns of commuting to work (Kentucky, migration, transportation).**

Garkovich, L.; RUSOA  
Provo : Rural Sociological Society.  
Rural sociology v. 47 (3): p. 529-543; Fall 1982. Includes references.

*Language:* English

*Descriptors:* Kentucky

**204** NAL Call No: **HE336.H48S91**  
**Virginia Agri-Access Network pilot study final report.**

Taylor, Daniel B.

Va. : s.n.,

vii, 35 leaves ; 28 cm. Cover title. Draft. December, 1985.

*Language:* English

*Descriptors:* Highway capacity; Rural roads; Bridges; Highway research

**205** NAL Call No: **HE5620.R53W36**  
**Volunteerism in public transportation financial and management aspects.**

Wallin, Theodore O.

United States, Urban Mass Transportation Administration, Office of Service and Management Demonstrations, Technology Sharing Program (U.S.)

Washington, D.C. : U.S. Dept. of Transportation : Distributed in cooperation with Technology Sharing Program, Office of the Secretary of Transportation; TD 1.20/8:87-1.

ii, 67 p. : forms ; 28 cm. August 1986. DOT-I-87-1. Bibliography: p. 57-66.

*Language:* English

*Descriptors:* Rural transit; Finance; Rural transit; Management; Paratransit services; Voluntarism

**206** NAL Call No: **HT401.S72**  
**What are the local infrastructure needs in the rural South?**

Sharpless, O.H.

Mississippi State, Miss. : The Center.

SRDC series - Southern Rural Development Center (130): p. 163-165; 1990 Jun. Paper presented at a Regional Conference: "Revitalizing the Rural South: Extension's Role in Enhancing the Quality of Life," January 16-18, 1990, Birmingham, Alabama.

*Language:* English

*Descriptors:* Alabama; Infrastructure; Rural roads; Local government

**207** NAL Call No: **TX361.W55W53 F&N E-4315**  
**WIC Transportation Demonstration Project.**

Alabama Council on Human Relations.

## Quick Bibliography Series

Auburn, Ala. Alabama Council on Human Relations.  
29, (41) leaves : ill. ; 29 cm. Funded by USDA, grant no. 59-3198-0-90. September, 1982.

*Language:* English

*Descriptors:* Reference materials; WIC program; Transportation; Rural areas; Rural population; Social services; Nutrition education; Low income groups

*Abstract:* A demonstration project designed to utilize and coordinate existing transportation to enable rural WIC participants to full access to the program is reported. The projects purpose was to: alleviate barriers to participation; provide nutrition education opportunities; surmount fragmentation of social service programs; and provide a replicable model that could be used in other rural areas. The outcome was not as successful as anticipated because of problems in scheduling transportation. However, WIC enrollment increased 25%; non-redemption of WIC vouchers decreased from 15 to 6%; and no-shows for appointments decreased from 12 to 7%. Some social services were coordinated but fewer than expected. Because of a staff member's resignation, the nutrition education component met with limited success. (kbc)

**208 NAL Call No: TX361.W55W5382 F&N AV The WIC Transportation Demonstration Project, Lee County, Alabama.**

Alabama Council on Human Relations.  
Auburn, Ala. Alabama Council on Human Resources.  
98 slides : col. + 1 sound cassette (20 min, 30 sec.) + 1 script (7 p.). Funded by USDA, grant no. 59-3198-0-90.

*Language:* English

*Descriptors:* Instructional media; Adult education; WIC program; Transportation; Rural areas; Rural population; Social services; Participation; Nutrition education; Low income groups

*Abstract:* A slide/tape presentation and narrative describes a demonstration project designed to utilize and coordinate existing transportation to enable rural WIC participants full program access. The presentation supplements the final report of the project. The projects' aim was to provide a model for other rural communities by addressing how existing resources could be utilized. Discussion and illustrations cover how: people were contacted, transportation schedules were made,

participation increased, redemption of WIC vouchers increased, some social services were expanded, and no-show appointments decreased. Some nutrition education was undertaken. (kbc)

**209 NAL Call No: TX361.W55W5385 F&N E-4319 WIC transportation demonstration report : final.** Washington-Greene Community Action Corporation (Washington, Pa.), Special Supplemental Food Program for Women, Infants, and Children (U.S.). Washington, Pa. The Corporation.

2, 21 (13) leaves : ill. maps ; 30 cm. U.S. Dept. of Agriculture, Food and Nutrition Service, Special Supplemental Food Program for Women, Infants and Children, grant no. 59-3198-0-92.

*Language:* English

*Descriptors:* Reference materials; WIC program; Program effectiveness; Transportation; Rural areas; Citizen participation; Citizen evaluation

*Abstract:* A 12-month study to assess the possibility of a correlation between the provision of transportation and the effectiveness of a WIC program in a rural area is reported; the study was based on a rural transportation model for improving WIC client participation using existing agency vehicles. About 1106 1-way passenger trips were provided to the WIC clients. The availability of rural transportation correlated inversely with the degree of delivery of WIC client caseload due to the provided transportation. The total operating cost of the transportation system was about \$22,000/year. Further cost reduction (through the use of other resources) is discussed. The transportation model expanded program participation and reduced the percentage of missed appointments. (wz)

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