

CITY OF WASILLA

290 E. HERNING AVE. WASILLA, ALASKA 99687 PHONE: (907) 373-9050 FAX: (907) 373-0788

COUNCIL MEMORANDUM NO. 90-06

FROM: Mayor Stein

DATE: January 2, 1990

RE: Trade Area Analysis

The University of Alaska Cooperative Extension Service offers a "Trade Area Analysis" service as described in the attached materials prepared for Wrangell-Petersburg and Ouzinkie. Such an analysis could be performed for the cities and borough to provide valuable information to help develop our local economy. This type of study would be of special benefit to Wasilla because of our high percentage of retail activity. Results of the study would be made available to all members of the business community.

The Mat-Su Borough assembled a proposal, with our encouragement, to share the cost of a study. The \$4,500 local share, to match the Extension Services expenses, would be split three ways between Palmer, Wasilla and the Borough.

I recommend that the Council approve the expenditure of \$1,500 from Council Contingency to fund our share of this project.

John C. Stein, Mayor

Genoral Color

THIS SURVEY IS CONFIDENTIAL

CONSUME	R SURVEY - OUZINKIE, ALASKA	Tb-18
Survey No. 1-21 8 89 - 4 1 89 Date/ 1989		itials SD-3
Date//_1989	Type: Intervi (circle h	iew Mail Telephone ow survey conducted)
Greetings:		
The City of Ouzinkie is conduct with the Southwest Alaska Muni Cooperative Extension Service improve the economy of our confinding out about local reside businesses and products/service development issues. Would you about yourself and the product information in this survey will cooperation.	icipal Conference and the Usand Marine Advisory Programmunity. An important stepents' attitudes and feeling ces they sell and about local help us by answering the cas and services which your	niversity of Alaska m. We are working to in this effort is s about local/regiona al community economic following questions family purchase? All
Please return completed survey	y to: Southwest AK Municip ATTN: John Levy 1007 West 3rd Avenue Anchorage, Alaska 9 Telephone: 274-7555	, #201 9501
I. Household and Residence Qu	uestions	
1. How many people (M,F) following age groups?	are members of your househ	old in each of the
<u>6</u> Under 5	5 to 13 <u>G</u> 14 to 18	$\frac{3}{M}$ 19 to 24
$\frac{II}{M} = 25 \text{ to } 34 \qquad \frac{I2}{M} = 3$	35 to 49 3 50 to 64	$\frac{\emptyset}{M}$ F 65 and over
2. Length of Residence (F	Head of Household)	
a. Length of time a m	resident of Ouzinkie? 11.5	7 Mean 25.24 years
	resident of Alaska? 4 to 57	
 Please check your pla (Head of Household) 	ace of residence and the se	
	Winter Oct-Mar	Summer Apr-Sep
Ouzinkie	21	21
Another Location		

List _

III.	Questions About Community Economic Development for Ouzinkie:
1.	Should the city encourage development of the following: Additional grid space? 20 Yes 6 No 1 Undecided Fresh water at the dock? 19 Yes 1 No 1 Undecided Laundry & shower at the dock? 12 Yes 8 No 1 Undecided Dock hoists? 14 Yes 6 No 1 Undecided Large boat moorage? 18 Yes 2 No 1 Undecided
2.	What can the City of Ouzinkie do to encourage future community economic development? (Please list any suggestions.)
	See Attached Sheet
IV.	Family Employment, Income and Budget Questions
1.	Please identify the 3 major sources of income for your household in 1988 (please use the following code to let us know what percent of total household income comes from this source: $1 = 1-25\%$ $2 = 26-50\%$ $3 = 51-75\%$ $4 = 76-100\%$):
11 9 14 2 4 0 2	Commercial Fishing 4 Native Corporation Dividends Construction Wages Ø AFDC Other Wages: Ø Disability Benefits Self Employed: Ø Trapping Permanent Fund Dividends Ø Other Rent and Interest Other Unemployment Benefits Other
2.	Do you 3 rent or 17 own your own home (in Ouzinkie)? What is your estimated monthly payment? \$\frac{83-600}{83-600} \text{Mean}^{\frac{1}{2}} \text{230.53}
3.	What is your estimated annual 20 fuel bill or 1 firewood bill? \$ 80-1600 Mean 894.29
4.	What is your estimated annual electric bill? \$ 86-1800 Mean \$ 729.81
5.	What is your estimated monthly garbage collection bill? \$ 5.00
6.	What is your estimated monthly water & sewer bill? \$5-15 Mean \$14.25
7.	What is your monthly propane for cooking fuel bill? \$4-50 Mean \$16.62
8. L 07	What percent of your household's food needs are derived from subsistence activities:
9.	Check the category which represents the range of your total household income, before taxes, in 1988 (January - December):
-andresses	1 \$0 to \$15,000 12 \$15,001 to \$35,000 5 \$35,001 to \$65,000 2 \$65,001 to \$100,000 \$100,000+

For the products/services listed below, please (1) circle the location where you make your purchases, (2) mark the code which represents the percent of your total purchases you spend at each location, and (3) check the most important reason for making the purchase at that location. 11. BUYING PREFERENCES OF SPECIFIC PRODUCTS AND SERVICES

	CODE: $1 = 1 - 25$ $2 = 26 - 50$ 7	3 = 51 - 75%	4 = 75-100X	
Product/ Service	Shopping Locations Mere Purchases are Made		Primary Reason for Making Purchases : C	Comments
	(1) Shopping Location (For each product/ service, circle the appropriate location)	Percent of Total Yearly Purchases in This Category Nade at Each Location	Store Price Convent Product/ Store Quality Store Other Layout fance/ Service Loyalty of Personnel and Service Selection Service Service	
Groceries PLE	Quzinkie Rodiak Anchorage Scattle Other Location Anii Order Location			Bulk rates at Arice Savers
Grocerles	Ouzinkle Kodiak Anchorage Scattle Other Location Whil Order Location	2 3 6 8 7	18	
Bullding Naterials	Ouzlinkle Kodlak Anchorage Seattle Other Location	13	<u>2</u> <u>11</u>	
Sporting Goods & Hunting Supplies	Oizinkle Kodiik Anchorage Scattle Other Location Mail Order Location	16		
Commercial Fishing Boats	Ouzinkie Kodiak Anchorage Seattle Other Location Mail Order Location			
Skiffs	Azinkie Kodiak Auchorage Seattle Other Location			
Commercial Fishing Geo	Ozzinkie Kodlak Anchorage Seattle Orber Locarion			O

ation	Check Cashing Services	Smownachines & 3 and 4 Wheelers	Christmas Slopping	Professional Services (Accounting, Insurance, Legal)	Nedical Services	Nedicine & Drugs	Automobiles	lome Appliances & Furniture	Clotles
	Ouzinkie Kodiak Anchorage Seattle Other Location	Ouzinkie Kodiak Anchorage Seattle Other Location	Ozzinkle Kodiak Anchorage Seattic Other Location	Ouzinkie Kodiak Anchorage Seattle Other Location	Ouzinkie Kodiak Anchorage Seattle Other Location	Ouzinkie Kodiak Anchorage Seattle Other Location Mail Order Location	Ouzinkie Kodiak Anchorage Seattle Other Location	Ouzinkie Kodiak Anchorage Senttle Other Location Nail Order Location	Kodiak Anchorage Anchorage Seattle Other Location Nail Order Location
	3		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>2</u> <u>12</u> <u>5</u> <u>5</u>	3	2 2 9	

WRITE IN SUGGESTIONS - OUZINKIE CONSUMER SURVEY

III.(2) What can the City of Ouzinkie do to encourage future community economic development? (Please list any suggestions.)

Build/operate cannery Cannery work Cannery Install cannery Cannery

Fish processor Processing plant

Year round fisheries

Construction of boat harbor and breakwater

Put in break water and maintain equipment and property already in use

Start businesses: clothing, check cashing, furniture store Mini mall Grocery store Clothing store

Gas station
Put in gas station
Gas station
Gas

Restaurant Restaurant Restaurant

Put a sawmill into business Build and operate sawmill

Sell real estate

Herbal processing factory

Recreation center
Build recreation center
Get their own public gym
Recreation facility

Pre-school (planning of)
Day care

III.(2) What can the City of Ouzinkie do to encourage future community economic development? (Please list any suggestions.)

Purchase rock crusher

Better roads

Heavy equipment opportunities

Build a bridge to Kodiak and road

Tourism

Shouldn't encourage development
I don't feel economic development is beneficial to
traditional lifestyles or values.

THIS SURVEY IS CONFIDENTIAL

SPECIAL SURVEY OF OUZINKIE

BUSINESSES, AGENCIES AND ORGANIZATIONS

Survey No. 1-4	Surveyor's Initials JP-1
Date / 1/189 / 1989	Type: Interview, Mail, Telephone
	(circle how survey conducted)

Greetings:

The City of Ouzinkie is conducting a survey of our community in cooperation with the Southwest Alaska Municipal Conference and the University of Alaska Cooperative Extension Service and Marine Advisory Program. We are working to improve the economy of our community. Would you help us by answering the following questions about your business, agency or organization and the products and services which you purchase? All information in this survey will be confidential. Thank you for your cooperation.

Please return completed survey to: Southwest AK Municipal Conference

ATTN: John Levy

1007 West 3rd Avenue, #201 Anchorage, Alaska 99501 Telephone: 274-7555

- I. Business, Agency and Organization Questions
- 1. What type of (business, agency or organization--please circle) are you involved with in Ouzinkie?

See attached sheet

- 2. How long has your business, agency or organization been operating in Ouzinkie? 3_{mo-17yr} Mean=1.Myears
- 3. What percent of your kind of business do you receive in Ouzinkie? 10-100 Mean = 61 1/2
- 4. Number of employees?

 2-5 Hean=3 Full-time 2-4 Hean=3 Part-time 0-4 Mean=1.3 Seasonal 14 Enrolled Students
- 5. What is your annual gross dollar volume? \$ N/A, \$300,000,?, N/A
- 6. What additional businesses do you think would help you, and Ouzinkie as a whole?

See attached sheet

7. What can the City of Ouzinkie do to encourage future community economic development? (Please list any suggestions.)

Soo attached sheet

II. BRING PRIEDY OF SPECIFIC PROTUCTS AND SERVICES

For the products/s on listed below, please (1) circle the location where you soke yo chance, (2) mark the code which represents the percent your total purchases you spend at each location, and (3) check the start legertant reason for making the purchase at that location.

Product/ Service	Shopping Locations Where Purchases are Hade				ħ	rimry Res	ean for h	hiking Puri	drames		t Commence
	(1) Shopping Location (for each product/, service, circle the appropriate location)	(2) Perome of Total Yearly Purchases in This Category Hade at Each Location	and		Conven- lence/ Service	Product/ Service Selection	Store	Quality of Product/ Service	Store Personnel Actitudes	Other	
Grocertee SAMPLE	full relies food as seen as se	- <u>2</u> 		三	<u>×</u>						Bilkrate
5K	Other Location Hull Order Location			\equiv			=			: ====	st Price Sources
Crocertes	Ozrinkie Kodisk Anchorage Seattie	3=		弄	4	=					
	Other Location Hall Order Location										<u> </u>
Brilding Backerials	Out rickle Kodi ak Anchorage Seattle Other Location			三							: : :
Sporting Goods & Hunting Supplies	Ouzinkie Kodiak Anchorage Seattle										: :
	Other Location Hall Order Location			=					•		
Connectal Pishing Boats	Out rivid a										
	Hall Order Localtion		!							-	
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Commercial Plating Cear	Outrinkie Kodiak Anchorage Scattle Uther Louation Hall Order Location										
Clothes	Outinkle Rodisk Anchorage Seattle Other Location										
	Other Location Hail Order Location		:					-			
Home Appliances 6 Purniture	Out inche Koul ak Anchorage Seattle Other Location Hall Order Location										
Automobiles	Outrikie Kodiak Anchorage Seattle Other Location						-				
Medicine 6 Drugs	Ouzinkie Kniliek Andierage Seattle Other Location										
	Hall Order Location		i=					-			<u> </u>
Medical Services	Out ride Lodies Anchorage Seattle Other Location										
Professional Services (Accounting, Insurance, Legal)	Oszinkie Kodisk Anchorage Seattle Other Location	3 2			=			<u></u>		=	
Ordational Scopping	Ozzínkie Kodiak Anchorage Seattle Otter Location										
S-commendance & 3 and 4 Macelera	Oscirkie Rodiak Aschorage Sentie Other Location										
Creck Control Services	Ozrinkie Rodiak Anchorage Seattle		:		3		-				- <u>i</u> - <u>i</u>

- I. BUSINESS, AGENCY AND ORGANIZATION QUESTIONS
- 1. What type of (business, agency or organization--please circle) are you involved with in Ouzinkie?

Business Groceries Retail gift/food store Education (K-12 school)

6. What additional businesses do you think would help you, and Ouzinkie as a whole?

Fisheries plant, sawmill A retail outlet for gasoline Shipping businesses for lower cost Daycare

7. What can the Village of Ouzinkie do to encourage future community economic development? (Please list any suggestions.)

Provide real estate
I don't think future economic development is beneficial to the traditional lifestyle of residents.
Get organized - be active, be open to new ideas.
Encourage community members to become involved in new businesses.

The school and community should work closely together to encourage, promote, and teach skills for life.

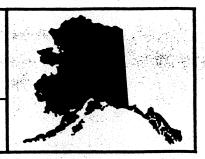
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COOPERATIVE EXTENSION SERVICE

University of Alaska

and U.S. Department of Agriculture Cooperating

Community Development Hi-Lites



Vol. 16, No. 5

May 1988

TRADE AREA ANALYSIS FOR THE WRANGELL-PETERSBURG TRADE AREA

Alaska's communities, both large and small, are looking for ways to develop their local economies. The declining price of oil, its impact on the state of Alaska's capital and operating budget and, in turn, its secondary effect on jobs and income at the community level has spurned an increasing concern with community economic development.

Improve Local Linkages

Many, if not all of Alaska's smaller communities, experience significant lost sales or "leakages" outside of their community in various retail sales areas. Because of this, a potential and very promising local economic development strategy would be to "improve local linkages". This strategy of improving local linkages according to David Darling (1):

"This strategy suggests that a community seek better ways to link local sellers with local buyers. The more a dollar circulates in the local economy before it leaks out, the more local income that dollar will generate (for that community)."

Trade Area Analysis

Trade area analysis was the approach Thomas Harris (2) used to analyze the commercial sectors of various census areas in the western states (including Alaska). While there exist several approaches to estimate commercial sector activity in rural areas, Harris' paper focused on trade area analysis as developed by Stone and McConnon at Iowa State University and Hustedde, Pulver, and Schaffer at the University of Wisconsin (4,5).

More specifically, Harris developed a trade-area analysis model for each state in the western region. A separate appendix for each region within

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each state contains the data used for the trade-area analysis, as well as graphs of population, per capita income and the resulting trade-area capture statistics and pull factors.

Trade Area Capture

Trade area capture is determined by dividing the study area's actual retail or service sales by the state per capita expenditures. This in turn is adjusted by the relative per capita income between the community, in this case the Wrangell-Petersburg trade area (census division) and the state. The trade area capture equation is stated as:

Actual Retail Sales of Merchandise Type i in Community j

(1) Trade Area Capture =

State Per Capita Community j

Expenditures X Per Capita Income
for Merchandise State Per
Type i Capita Income

The underlying assumption of trade area capture is that local tastes and preferences, regardless of income differences, are similar across the state as a whole.

Trade area capture estimates usually are derived for more than one time period and more than a single region or community. By comparing a community's trade area capture estimates through time with changes in the community's population and income, the community's ability to capture commercial sector trade at a similar rate as the community's population or income grows or declines is seen. Also, by comparing changes in trade area capture for communities of similar demographic and economic structure, that community's relative commercial sector activity can be estimated.

Example Calculation of Trade Area Capture

For this example, trade area capture values for the Wrangell-Petersburg trade area in 1980 were derived by Harris using Sales and Marketing Management Magazine retail sales data. Referring to Table 3, total retail sales in the Wrangell-Petersburg trade area totaled \$12,409,000 in 1980 (in real dollars). Alaska's real per capita income expenditures for total retail sales in 1980 were \$3,135.91 (Table 1). Real per capita income for the Wrangell-Petersburg trade area in 1980 was \$6,064 (Table 2) and Alaska's real per capita income was \$7,020 (Table 1). Using these values and referring back to equation 1, the trade area capture (TAC) figure for the Wrangell-Petersburg trade area is derived as:

(2) TAC =
$$\frac{\$12,409,000}{\$3,135.91 \times \frac{\$6,064}{\$7,020}}$$

TAC = 4.614

The trade area capture value derived for the Wrangell-Petersburg trade area indicates that there were retail sales in 1980 equal to 4,614 people if they had purchased retail products at an average rate similar to all state residents while adjusting for relative income levels. The estimate is not the actual number of people who made retail purchases in the Wrangell-Petersburg trade area, but rather an equivalent number.

How to Interpret Trade Area Capture Estimates

If the trade area capture figure is larger than the community's population then it implies that 1) the community is attracting consumers from outside its boundaries or 2) people who reside in the community are spending more for these retail items than the state-wide average. If the trade area capture figure is less than the community's population, then the community is 1) not capturing the retail/service purchases of its own residents or 2) community residents are spending relatively less than the state-wide average. For all of these occurrences, further trade analysis is required such as a consumer survey.

Therefore, the TAC of 4,614 indicates that the Wrangell-Petersburg trade area, whose estimated population for 1980 was 6,300, is probably not capturing the retail/service purchase of its own residents. (NOTE: In Alaska's bush communities with lower income levels and high subsistence activities, a lower TAC statistic would be attributed to community residents spending less locally as well as a reflection of the importance of local subsistence activities.)

Trade area capture estimates are an aggregate figure made up of both local and non-local shoppers. To estimate the amount of sales that were to outside shoppers, a pull factor is derived.

Pull Factor

Pull factor is a ratio which explicitly derives the portion of consumers that are from outside the community's boundaries. The pull factor, for retail goods and services, is the trade area capture figure divided by the regional or community population, or:

(3)	Pull Factor for Community j	Trade Area Capture Estimate of Community j
		 Community j Population

The division by community population removes the influence of population change within the community and focuses attention on the community's ability to draw customers.

Just as with trade area capture estimates, pull factor estimates are more useful when more than one time period and multiple communities are used. By comparing a community's pull factor over time in relation to the changes in community population and income, decision makers will become aware of the community's market capturing efficiency. Additionally, comparison of a community's pull factor and trend in pull factor with communities of similar demographic and economic structure is useful in determining the relative commercial sector activity of a specific community.

Example Calculation of Pull Factor

From the previous section, the trade area capture figure for all retail sales for the Wrangell-Petersburg trade area in 1980 was 4,614 and its estimated 1980 population was 6,300. Given these values and equation 3, the pull factor value for the Wrangell-Petersburg trade area is:

(4) Pull Factor =
$$\frac{4,614}{6,300} = 0.73$$

For 1980, the pull factor value indicates that the Wrangell-Petersburg trade area is not capturing the retail purchases of its own residents. In fact, the Wrangell-Petersburg trade area in 1980 was losing retail trade to outside communities.

How to Interpret Pull Factor Estimates

If a community's pull factor is greater than one, this is interpreted to mean that the community's trade area capture is larger than the community's population. This also implies that the community is attracting consumers from outside its boundaries. Alternatively, if a community's pull factor is less than one, this means that the community's trade area capture is less than its population. This also means that the community's commercial sector is not capturing all the retail/service purchases of its own residents. In other words, the community is experiencing "sales leakages".

Results for the Wrangell-Petersburg Trade Area

Table 2 presents the aggregate figure for the Wrangell-Petersburg trade area's figures for trade area capture and its resultant pull factor. Table 3 presents the retail sales activities for the Wrangell-Petersburg trade area used to calculate the trade area capture statistics.

W. Market

Referring to Table 2, the pull factor remained in the 1.35 (1976) to 1.25 (1978) range until 1979, and steadily declined to .65 in 1984. This suggests that as far as area wide retail sales were concerned, that the Wrangell-Petersburg trade area was doing very well and better than most other communities in capturing the retail sales of its own residents, but in a very short number of years following, the ability of the local retail sector to do this was seriously eroded to the point in 1984 where its pull factor was estimated to be .65. In short, in the late seventies, the Wrangell-Petersburg retail sector was in fact attracting customers from outside of its boundaries, and by 1984, not only were sales to outside purchasers lost, but Wrangell-Petersburg residents were increasing their purchases from outside (of the Wrangell-Petersburg trade area) retailers.

TABLE 1 Per Capita State Retail Sales and
Per Capita State Income
(Real Dollars)

	Total State							State Per
Year	Retail Sales (\$)	Food (\$)	Eat&Drink (\$)	Gen.Merch (\$)	FFA (\$)	Auto (\$)	Drug (\$)	Cap Income (\$)
1976	3115.71	964.33	431.31	540.08	109.15	475.63	168.52	8104
1977	3154.22	1031.41	467.10	577.54	113.60	537.52	179.83	7831
1978	3137.24	1093.32	457.34	614.70	121.37	547.89	176.33	7284
	3071.68	1217.00	775.65	584.70	155.50	597.86	236.58	6941
1979	3135.91	1437.86	957.79	664.04	155.98	531.92	262.86	7072
1980	7,777,7	1562.12	1085.34	721.42	158.62	550.75	271.56	7029
1981	3123.37			811.19	142.11	517.68	304.45	8157
1982	3140.59	1824.42	1021.08		161.18	599.57	305.07	8071
1983	2900.06	1518.40	1051.41	747.89			289.85	7854
1984	3567.11	1573.41	1007.62	849.44	365.22	1278.56	207.03	7054

^{*} Source: Trade Area Analysis for the Western States 1976-1984.

TABLE 2 Aggregate Trade Area Capture And Pull Factors for the Wrangell-Petersburg Trade Area

Year	Population	Per Capita Income (Nominal)	Per Capita Income (Real)	Trade Area Capture	Pull Factor
1976	5800	6652	5026	7850.66	1.35
1977	5600	7215	5151	7311.51	1.31
1978	5100	7882	5239	6366.25	1.25
1979	5300	8749	5353	5255.87	0.99
1980	6300	10821	6064	4614.81	0.73
1981	6500	11528	5893	4886.23	0.75
1982	6800	16252	7836	4794.10	0.71
1983	7300	18152	8429	4843.91	0.66
1984	7100	15812	7076	4633.24	0.65

^{*} Source: Trade Area Analysis for the Western States 1976-1984.

Wrangell-Petersburg Trade Area Analysis, May 1988, Page 6

TABLE 3 Retail Sales Activities for the Wrangell-Petersburg Trade Area

(1000's of Real Dollars)

100 A	Total Retail		Eating & Drinking	General	Furniture/	Auto-	4.	
Year	Sales	Food	Places	Merchandise	Appliances	Motive	Drug	Other
	(\$) (\$)	(\$)	(\$)	(\$)	(\$)	· (\$)	(\$)	(\$)
1976	15170	6507	1780	1362	57	: 298 ∋;	424	4742
1977	15170	6489	1788	1486	- 55	325	433	4594
1978	14365	6081	1530	1399	. 52	293	. 372	4639
1979	12451	6073	1706	665	24	48	184	3751
1980	12409	6156	1827	647	21	36	174	3548
1981	12795	6258	1967	659	20	35	168	3689
1982	14464	7280	1943	718	19	39	201	4265
1983	14671	6856	2094	825	21	43	227	4604
1984	14890	7324	1516	294	- 60	714	462	4520

^{*} Source: Sales and Marketing Management Magazine, various issues.

Looking more specifically at the components of this phenomenon could be undertaken by examining Table 4, the trade area capture data for various retail trade categories and Table 5, the resultant pull factors.

TABLE 4 Trade Area Capture for the Wrangell-Petersburg Trade Area

Year	Food	Eat & Drink	Gen. Merch	FFA	Auto	Drug
1976	14399.74	8804.03	5379.89	1122.71	1335.69	5367.78
1977	13395.66	8149.82	5477.88	1030.47	1286.88	5123.10
1978	11631.94	6995.18	4758.85	893.51	1116.56	4415.48
1979	10574.65	4660.70	2408.34	333.55	169.17	1644.27
1980	8908.95	3969.44	2026.71	276.65	140.32	1375.39
1981	9345.98	4228.88	2131.18	293.28	147.27	1440.65
1982	8614.53	4108.49	1909.50	285.68	160.87	1422.38
1983	9310.44	4107.30	2275.11	267.33	148.52	1534.83
1984	11544.54	3730.97	858.49	404.21	1385.52	3952.00

^{*} Source: Trade Area Analysis for the Western States 1976-1984.

TABIE:5 Pull Factors for the Wrangell-Petersburg Trade Area

Year	Food	Eat & Drink	Gen. Merch	FFA	Auto	Drug
1976	2.48	1.52	0.93	0.19	0.23	0.93
1977	2.39	1.46	0.98	0.18	0.23	0.91
1978	2.28	×41.37 🖎		• • 0.18	0.22	0.87
1979	2.00	0.88*€	0.45	0.06	0.03	0.31
1980	1.41	0.63	· · · · · 0.32	- 0.04	0.02	0.22
1981	√1.44	0.65	0.33	0.05	0.02	0.22
1982	***1.27	1 0.60	0.28	0.04	0.02	0.21
1983	1.28	0.56	0.31	0.04	0.02	0.21
1984	1.63	0.53	0.12	∵0.0 6	0.20	0.56

* Source: Trade Area Analysis for the Western States 1976-1984.

The greatest retail trade loss over this period resulted in the food, eating and drink, and general merchandise categories. Retailers in the Wrangell-Petersburg trade area still provide food items for purchasers outside their area, but in a lesser amount.

The pull ratio of the retail categories: furniture, furnishings and appliances (FFA) and automobiles have characteristically remained low during this period, probably more a reflection of the limited market and high inventory carrying costs associated with these retail items. Note also, the relative magnitude of their total gross sales is substantially lower than the other Wrangell-Petersburg retail categories.

Of interest is the drug category. In recent years the pull factor indicates that sales of this retail item were essentially made to outside retailers or significant "sales leakage" occurred, however, in 1984 the pull factor increased substantially from .21 in 1983 to .56 in 1984 indicating local sales activity increased, more than doubling itself.

What Now?

Interpreting the results of Harris' work for the Wrangell-Petersburg trade area appear to indicate that presently large numbers of purchases are being made outside (of the Wrangell-Petersburg trade area); where a few short years ago the situation was exactly reversed. In pursuing a community economic development strategy of "improving local sales linkages" or "minimizing sales leakages", the following are some specific areas that may prove productive (1,3):

 Recapture lost sales - Local merchants could improve their ability to capture their local market by better identifying the spending patterns of city households. Possibly a simple survey to ask where residents Wrangell-Petersburg Trade Area Analysis, May 1988, Page 8

bought goods and services and why they bought where they did. Then they could target specific ways to serve their clientele.

2. Identify new sales area - A survey or study of spending patterns of major purchasers such as the hospital, the school district, and the local and state government offices could identify new sales opportunities for local businesses.

In closing, the purpose of the preceding was to suggest only one area that decision-makers of the Wrangell-Petersburg trade area could pursue in their efforts to promote community economic development. The first step in pursuing this further is to decide what existing or new organization should take the lead and to develop broad community support for this effort.

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