

Copper/Nickel Project Report #3

FORMAT FOR GATHERING DATA: COPPER/NICKEL
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I. INTRODUCTION

This report will outline the general procedure for conducting the economic impact component of the total Copper/Nickel research effort in the state of Minnesota. These procedures will relate to the data requirements, questionnaire format, interview procedures, and sample sizes required to maximize the accuracy and efficiency of the proposed models (see report no. 2 in this series).

In arriving at these procedures, members of the research team draw on the following experiences: (1) previous work on data collection sponsored by the Arrowhead Regional Development Commission for a Duluth/Superior economic base--input/output model; (2) previous work in Northeast Minnesota (Itasca County) by J.M. Hughes, dealing specifically with the Forestry Industry;¹ (3) previous work on the Forestry industry under the sponsorship of the U.S. Forest Service; (4) a recent trip to Washington, D.C. to confer with officials within the Departments of Commerce, Agriculture and with officials in the Bureau of Mines concerning possible sources of secondary information; and (5) various work projects dealing with household surveys.²

Direct adaptation of questionnaire, interview procedures, and model construction will be made from the listed experiences. These procedures are expected to be flexible enough, however, to permit variations during the interview process itself on the basis of new experiences and advice provided by experts and local respondents.

The interviews will take place during the summer months, 1977. In order to maximize the use of available secondary information, particularly from the Federal Government, the year 1976 will be used for the industry survey. The tourism/household survey will relate to the year of the survey, i.e., 1977.

Since the primary concern of the industry survey is for coefficient values that can be applied to appropriate control totals, the use of two years in the manner specified should pose no problems in terms of model reliability.

This report will be divided into three distinct sections in addition to the Introduction. The first will summarize the work requirements for the firm interviews, the second will summarize the required efforts for the household survey, and the last will summarize the procedure for the tourist survey.

II. FIRM SURVEY

It is very difficult to compile an accurate listing of firms within a geographic area that is as rural as the one here being analyzed. Farms, for example, rarely list themselves under any specific firm heading in any directory, but rather, they appear as the name of a particular individual that resides at a specified box or rural route number. Recognizing their potential problems, the research team used multiple sources, such as telephone books, Chamber of Commerce sources, telephone calls to individuals in the area, and professional organizations to obtain a first approximation of the dispersement of firm types throughout the area.

Table I presents a summary of the number of firms in the Ely Market Area obtained from the sources listed above. The industry categories that were chosen are based on the classifications presented by Jay Hughes in his earlier research effort. The research team also has (but will not present in this report) the names and addresses of these firms for eventual use in the interview process. The industrial sectors presented were adapted from the input/output table of the Jay Hughes report (See Appendix II).

The standard procedure for an input/output effort of this type is to obtain good control totals, by industry, in terms of their level of output (in dollar terms). The coefficients of industry interactions are then summarized on the basis of survey information, usually involving a sample of the total numbers of firms in the region being studied. The control totals come from a variety of sources, but usually they are obtained from secondary data published state and federal governmental agencies.

The state and federal government sources mentioned above are rarely published below the county level.⁴ The Minnesota State Department of Manpower Services has limited information on covered employment that will be

utilized, where possible, for these control possibilities. Finally, Minnesota State revenue information, tax information, and output information will be utilized, particularly in constructing the household sector of the table.

Because of the limited availability of secondary data on a sub-county basis, and because of the relatively few number of firms in the region, a census survey will be taken instead of the more usual sample survey method. Where possible, non-responses will be re-interviewed following public relations efforts by state and local officials. These relatively extensive interviewing efforts, along with the limited secondary data that is available, should serve to enhance the reliability of the model in its application to the various questions that it is designed to answer.

In addition, there will be a portion of the sample that will be interviewed in a very special manner. That is, the portion of the firm listing that is likely to deal with both local household consumption patterns and with tourist consumption. Grocery stores, filling stations, and related retail establishments all fit this category.

These latter firms will be requested, on a sample basis, to provide sales and purchase information on a monthly basis. This information, along with pertinent questions relating to the firms perception of levels of tourist activity, will serve as checks and estimator of outside versus inside recreation and tourist activity.

Appendix I presents copies of the various survey questionnaires that will be applied to the firm analysis component of this research effort. The first of these presents the general pattern for the survey effort. The remaining survey instruments are specific to the types of activities in which the firms engage. It is anticipated that the survey instrument will be administered by a trained interview team. The document must also be self-ex-

planatory enough for the firm to complete on its own, however. This is due to the fact that the detailed information needs of such an undertaking often requires the firm to keep the questionnaire to be completed over a large period of time. The questionnaire must be fully contained, with appropriate instructions, in order to facilitate this completion process by the respondent.

It is anticipated that these questionnaires will be modified or expanded in scope as interview experiences and increased knowledge concerning industrial production patterns occur. These are, then, first approximations based on previous research experience in other areas.

III. HOUSEHOLD SURVEY: COPPER/NICKEL GROWTH POTENTIAL STUDY

EXPLANATION

The household survey forms which follow (town and village) (Rural areas) developed by J. Hughes in the Itasca County study of 1966, are appropriate to the development of an input-output table proposed for the Cu-Ni study by the U.M.D. team. One set of questions relative to recreation would, however, be added.

The question and its segments would be this:

- I. How many days did you spend last year in recreation outside the home? You _____ days. Wife or Husband _____ days? Children _____? Days per child _____?

Item	Total Days	Days spent in the local area	Days spent away from the area
Hunting	_____	_____	_____
Fishing	_____	_____	_____
Overnite camping	_____	_____	_____
Snowmobiling	_____	_____	_____
Sightseeing	_____	_____	_____
Other (list here)	_____	_____	_____

- II. Do you own a second home: _____ Location: In area _____ out of area _____
- Do you expect to own a second home some day? _____

ITASCA COUNTY ECONOMIC STUDY

C O N F I D E N T I A L

For Authorized Personnel Only

University of Minnesota
School of Forestry
St. Paul, Minnesota 55101

Households
1. Town & Village _____
2. Non-farm Rural
Permanent _____

Location: _____

Interviewer: _____

1. About how much does your household spend per week for food and groceries?
 _____ Total for year _____ About what
 proportion of this is spent outside Itasca County _____.
2. Could you give an approximation of your 1966 household expenditures for
 the following:

Item	In Itasca	Outside	Total
	County Local	Itasca County Outside	
(a) Clothing and apparel _____			
(b) Medical care and drugs _____			
(c) Laundry, repair services, etc. _____			
(d) Education _____			
(e) Premiums for all forms of insurance _____			
(f) Entertainment and recreation (including bar and restaurant) _____			
(g) Electricity _____			
(h) Telephone and telegraph _____			

Item	In Itasca County Local	Outside Itasca County Outside	Total
(i) Heating costs (coal, fuel oil, gas--underline_____			
(j) Water and sewage_____			
(k) Contributions to nonprofit organizations_____			
(l) County and Local taxes_____			
(m) State and Federal taxes_____			
(n) Hired domestic help_____			
(o) Total automobile expenses (if not known go to 3)_____			

3. About how many miles per year do you drive your car? _____
What proportion of your gas, oil and car repairs do you purchase outside
of Itasca County? _____
4. Did you contribute in 1966 to anyone else's support who lives outside of
Itasca County? _____ About how much did this amount to?

5. Did you or anyone else in your household purchase an automobile in
1966? _____ About how much was paid for it, in-
cluding the trade-in allowance if any? _____ Was
this purchased outside of Itasca County? _____
6. Did you buy any furniture or household appliances in 1966? _____
About how much did these cost? _____ What proportion was
purchased outside the county? _____
7. Do you own or rent your home? _____ (For those renting--
How much rent do you pay? _____, per month. Does the owner
live in Itasca County? _____
8. (For home owners)--Do you have a mortgage on this home? _____
About how much did your payments amount to in 1966 excluding taxes and
insurance premiums? _____ (or, per month). Did you pay
this mortgage here in Itasca County? _____

- 9. Do you own any other real estate? _____ Kind of property _____
Location: Inside County _____
Outside County _____. About how much, if any, rent or other
income did you receive in 1966 from this property _____ About
how much of this went to pay for the expenses of maintaining the pro-
perty? _____.
- 10. Do you have a mortgage on this other property? _____
About how much did your payments amount to in 1966? _____ Did
you pay this here in Itasca County? _____.
- 11. Did any of you make any payments on loans (besides mortgages) during
1966? _____ Approximately how much was paid _____
Was this paid outside the county? _____.
- 12. Approximately what was the cost, if any, of any major improvements,
renovations, or additions to your home during 1966? _____
About how much of this was purchased outside of the county? _____.
- 13. Did any of you receive any gifts, awards, or win any prizes last year?
_____ About how much did you receive? _____ How much of
this came from outside the county? _____.
- 14. Did any of you receive any money last year from sources such as: trust
funds; interest from savings accounts; dividends and/or interest from
stocks, bonds, and mutual funds? _____ How much did this
amount to in 1966? _____ What part of this came from inside
Itasca County? _____.
- 15. To make sure we haven't missed anything, do you have any business
interest outside of Itasca County that we haven't discussed? Yes _____
No _____ About how much was earned from this last year? _____.

16. Household residents, occupation, and gross earnings.

Household Member	Relation to Interviewee	Sex	Age Class	Occupation	Type of Business	Location	Months Worked 1966	Gross Earnings & Source

ITASCA COUNTY ECONOMIC STUDY

C O N F I D E N T I A L

For Authorized Personnel Only

University of Minnesota
School of Forestry
St. Paul, Minnesota 55101

Households
Rural Areas
Permanent

CU MSU Fire #

Location: _____

Interviewer: _____

1. Household residents, occupation, and gross earnings:

Household Member	Relation to Interviewee	Sex	Age Class	Occupation	Type of Business	Location	Months worked 1966	Gross Earnings

2. If farming is your main occupation:

a. How much of your 1966 farming income did you receive from the sale of:

Product Class	Amount Received		
	Total	Inside County	Outside County
1. Dairy products			
2. Livestock			
3. Vegetables			
4. Hay and grain feeds			
5. Wool, furs and hides			
6. Forest products			
7. Other (specify)			

b. If not included in (a) above, how much did you earn in 1966 from farming for others?

In Itasca County _____

Outside Itasca County _____

c. Did you lease or rent land from others for farming or grazing in 1966? Yes _____ No _____

Inside Itasca County _____

Outside Itasca County _____

- d. Did you lease or rent land to others for farming or grazing in 1966? Yes _____ No _____. If you did, how much did you receive in payment? \$ _____.
- e. Did you lease or rent land and/or cabins to others in 1966 for hunting, fishing or other recreation activities? Yes _____ No _____. If you did, how much did you receive in payment? \$ _____.
- f. In addition to (e) above, did you charge for fishing or hunting on your land in 1966? Yes _____ No _____. How much did you receive in payment? \$ _____.
- g. Did you hire labor or help in 1966? Yes _____ No _____.

Labor Residence	Number	Wages Paid
In Itasca County		
Outside of Itasca County		

h. What were your 1966 expenses associated with your farming?

Item	Expenses		Total
	In Itasca County	Outside Itasca County	
	----- Dollars -----		
1. Feed, seed, fertilizer, lime, plants.			
2. Hand tools			
3. Machinery repair and parts			
4. Handling costs			
5. Gas and oil			
6. Electricity (farm only)			
7. Custom work			
8. Veterinarian, breeding			
9. Others			

Obtain at least an estimate of the total of the above expenses and its
distribution between Itasca County and Outside-Itasca-County places.

- i. Did you buy land in 1966? Yes _____ No _____. If so, how much did you actually pay out in 1966 for the land? \$ _____. Did you purchase from or pay to a resident of Itasca County? Yes _____ No _____.
- j. Did you buy any farm equipment (including tractors, dairy and barn equipment) in 1966? Yes _____ No _____. If so, how much did you actually pay out for this equipment in 1966? \$ _____. How much was purchased within Itasca County? (\$ or %) _____.
- k. Did you buy livestock in 1966 for feeding or finishing out and resale during 1966? Yes _____ No _____. How much did you pay out for this livestock in 1966? \$ _____. How much has purchased within Itasca County? (\$ or %) _____.
- l. Did you buy any livestock in 1966 that you intend to keep for more than a year (including wool and fur beavers)? Yes _____ No _____. How much did you pay out in 1966? \$ _____. How much was purchased in 1966? (\$ or %) _____.
- m. Did you sell any land, livestock held for more than 6 months, equipment, or buildings in 1966? Yes _____ No _____. What was your gain \$ _____ or loss \$ _____ from such sales as reported on your income tax return?
- n. What was your 1966 depreciation in buildings, equipment and livestock as reported on your income tax return? \$ _____.
- o. Did you build any new buildings or repair or remodel any farm buildings (excluding your house) in 1966? Yes _____ No _____. How much did you spend on this in 1966? \$ _____. How much was purchased outside Itasca County? (\$ or %) _____.

p. What other items of farming expenditure and income for 1966 did you have that are not accounted for above? Please specify below:

Item	Inside Itasca County	Outside Itasca County	Total
------	-------------------------	--------------------------	-------

----- Dollars -----

Income:

Expenditure

3. About how much does your household spend per week for food and groceries? _____ Total for year _____ About what proportion of this is spent outside Itasca County _____
4. Could you give an approximation of your 1966 household expenditures for the following:

Item	In Itasca County Local	Outside Itasca County Outside	Total
(a) Clothing and apparel _____			
(b) Medical care and drugs _____			
(c) Laundry, repair services, etc. _____			
(d) Education _____			
(e) Premiums for all forms of insurance _____			
(f) Entertainment and recreation (including bar, restaurant, and vacations) _____			
(g) Electricity _____			
(h) Telephone and telegraph _____			
(i) Heating costs (coal, fuel oil, gas -- underline) _____			
(j) Water and sewage _____			
(k) Contributions to nonprofit organizations _____			
(l) County and Local taxes _____			
(m) Federal and State taxes _____			
(n) Hired domestic help _____			
(o) Total automobile expenses (if not known go to 5) _____			

5. About how many miles per year do you drive your car? _____ What proportion of your gas, oil and car repairs do you purchase outside of Itasca County? _____

7. Did you contribute in 1966 to anyone else's support who lives outside of Itasca County? _____ About how much did this amount to? _____
8. Did you or anyone else in your household purchase an automobile in 1966? _____. About how much was paid for it, including the trade-in allowance if any? _____ Was this purchased outside of Itasca County? _____
9. Did you buy any furniture or household appliances in 1966? _____ About how much did these cost? _____ What proportion was purchased outside the county? _____
10. Do you own or rent your home? _____ (For those renting) -- How much rent do you pay? _____ per month. Does the owner live in Itasca County? _____
11. (For home owners) -- Do you have a mortgage on this home? _____ About how much did your payments amount to in 1966 excluding taxes and insurance premiums? _____ (or, per month). Did you pay this mortgage here in Itasca County? _____
12. Do you own any other real estate? _____ Kind of property _____ Location: Inside County _____ Outside County _____. About how much, if any, rent or other income did you receive in 1966 from this property _____ About how much of this went to pay for the expenses of maintaining the property? _____
13. Do you have a mortgage on this other property? _____ About how much did your payments amount to in 1966? _____ Did you pay this here in Itasca County? _____
14. Did any of you make any payments on loans (besides mortgages) during 1966? _____ Approximately how much was paid? _____ Was this paid outside the county? _____
15. Approximately what was the cost, if any, of any major improvements, renovations, or additions to your home during 1966? _____ About how much of this was purchased outside of the county? _____
16. Did any of you receive any gifts, awards, or win any prizes last year? _____ About how much did you receive? _____ How much of this came from outside the county? _____
17. Did any of you receive any money last year from sources such as: trust funds; interest from savings accounts; dividends and/or interest from stocks, bonds, and mutual funds? _____. How much did this amount to in 1966? _____. What part of this came from inside Itasca County? _____
18. To make sure we haven't missed anything, do you have any business interests outside of Itasca County that we haven't discussed? Yes _____ No _____ About how much was earned from this last year? _____

IV. TOURIST/RECREATION DATA NEEDS

INTRODUCTION

Given that the model or models to be implemented will focus particular attention on tourism/recreation, it is very important that detailed data be gathered from both secondary and primary sources for this component of the model. In this section potential sources of such data will be identified and the methods of collection will be discussed.

Before proceeding it is necessary to distinguish between local (L) and non-local (NL) tourist/recreation users. In Report #2 (Alternative Models...) we explained our intention to measure changes in recreation/tourism (measured in user days) that will result from copper-nickel development and further noted that such development would probably positively affect local recreation and negatively affect non-local recreation. In order to be able to convert these projected impacts from days into dollars it is necessary that we determine the daily expenditure pattern (i.e., dollars spent in various sectors or industries) associated with various types of recreational activity. In essence, this is the purpose of our data collection effort with respect to recreation users and in this sense the purpose is similar to that associated with the household survey for total expenditures. That is, to develop various components of the final demand portion of the input-output table.

PRIMARY AND SECONDARY DATA

While the difference between primary (survey) and secondary (non-survey) data has already been discussed, it is necessary to elaborate on the uses of each form of data for tourism/recreation. Whereas for firms, and possibly households, it is intended that a census will be conducted, for tourists/recreation users we will only be able to take a sample of user days. This being

the case, a crucial step will be inflating or "blowing" up the sample to the size of the population. In each case (i.e., for each type of recreation activity) this will require we have a control total or population size in user days. As the various activities are discussed we will identify potential sources of information on control totals and in most cases these will be secondary data sources.

For instance, to estimate the total number of canoeing days in the area we can use number of BWCA permits issued and/or records of outfitters. In turn we will when interviewing a canoeist ask a question which will allow us to determine if he or she will be part of the control total we are using (e.g., Are you canoeing today in the BWCA?). We would then most likely inflate the sample of those interviewed who are not in control group (i.e., non-BWCA canoers) in the same way as we inflate our sample of those in control group (i.e., BWCA canoers). There will be some activities which will not require this procedure if we can be sure the control total is all inclusive. We believe this will be the case for second home owners if we can find from the assessor's records the total number of second homes in the area.

TYPES OF SURVEYS

While the primary data collection effort will be focused on various types of tourists or recreation users and the essential information to be obtained will pertain to expenditure patterns, there are alternative surveying techniques which might be used to accomplish this task. It is assumed that essentially the same information would be obtained using either method though there are exceptions which will be noted. The specific information to be obtained will be delineated in the next section having to do with the survey questions themselves. We will now briefly explain the alternative survey techniques and conclude with a recommendation as to which should be used.

Recreation Site Interview

This would involve personal interviews of tourists engaged in various types of recreational activity at the site or location of the activity. While the specific activities which will be investigated comes later in this section, examples of this approach would be to interview resort guests at various resorts or fisherman and boaters at public boat landings. This method would probably be the most expensive to conduct since it would involve considerable travel time and expense between interviews. Furthermore, some types of tourists (e.g., general sightseers) may be missed if they are involved in an activity for which there is no specific site.

Neutral Or Common Site Interview

While this approach would also involve a personal interview approach or filling out of questionnaires, it would be conducted at some common location or locations which hopefully are used by all types of tourists. Professor Uel Blank (University of Minnesota-St. Paul) has worked on this procedure and has provided us with a questionnaire used in the Twin Cities area (Exhibit C in the Appendix). This particular survey was conducted at gas stations which were assumed to be a neutral site where all types of tourists or visitors stopped. Professor Blank has indicated that the survey can also be used at other public sites, such as restaurants, which are frequented by all types of tourists. It is our belief that this approach will prove best suited for surveying in the Ely area since there are relatively few gas station (less than 20) and other such common sites. It is believed that this method will be less expensive to conduct than the recreation site approach and will also cover all types of tourists, including those who are not identified with a particular site.

Traffic Survey

This method involves stopping traffic and asking a series of questions. Usually this method is employed in an origin-destination study and would probably not be best suited for obtaining information from tourists in the Ely area. One major drawback of this method is that because it requires stopping traffic the interview time must be kept to a minimum and it is believed that this alone would preclude using this method to conduct the type of tourist survey we envision. It may be possible to use this approach as a control check by only asking stopped cars if they bought gas or ate in Ely. This would allow us to determine which, if any, groups (i.e., tourist types) may have been missed in the common site interviews. Another disadvantage of the traffic approach is that it would require cooperation of the Minnesota Highway Department and if they agreed to assist us it would probably be on the condition that we obtain information for them in the interview (e.g., origin-destination type questions). The advantages of this approach are complete coverage of all tourist types and a somewhat lower cost per interview but this latter advantage would be conditional on Highway Department cooperation.

Mail Survey

This method would undoubtedly be the cheapest to conduct but this advantage would be outweighed by several disadvantages. First, it would be difficult to be sure all types of tourists received a questionnaire. More importantly, a mail survey has a much lower response rate than the other approaches. Also, since we want information for a particular day (e.g., expenditures for 24 hour period) this is more likely to be given accurately at the moment than if it is mailed in at a later date (e.g., after the tourist has returned home). We may use a mail survey for second home owners since we should be able to

conduct a census of them if we find all second home addresses. Such a second home owner mail survey would be primarily to find out number of days such owners spend at their second homes per year. Furthermore, we may give second home owners a modified household survey which would require they itemize annual expenditures made while at their second home, whereas for local households the same expenditures would be itemized for the entire year.

We will not discuss any other forms of surveying (e.g., telephone) which we do not believe are applicable to tourism. It is believed that the best method for surveying tourists in the Ely area is the common site (probably gas stations) approach for the reasons noted. This may be supplemented with a mail survey of second home owners since they will be surveyed using a questionnaire similar to that to be administered to local households (see section III for questionnaires) or alternatively using the common site questionnaire modified for a year rather than a trip. This modification is explained in the next subsection, Survey Questions.

SURVEY QUESTIONS

At this time we are presuming that the common site survey technique will be adopted and so we will use as a starting point or a prototype for this questionnaire Exhibit C (in Appendix), which has been provided by Professor Uel Blank. Several of the questions in Exhibit C will be modified (e.g., Ely will replace Twin Cities) and replaced but the overall length of our tourist survey for Ely will be less than five pages. This length could be used with any of the alternative survey techniques discussed except the traffic survey, which as explained earlier, would require a much more concise set of questions.

It is our intention to omit from Exhibit C questions 10, 12, and 15-21, though some of these may be included given space on the final questionnaire. Question 9 referring to major purpose of visit will be redesigned to determine what the major recreational (or other) purpose or activity of the respondent will be the day interviewed (or within the last 24 hours). This question will allow classifying the person into a type of recreational activity for the user day. These various activities will be delineated in the next subsection. Immediately following this activity question, there will be a question similar to number 13 in Exhibit C asking the respondent to list expenditures for the same day. This will eventually allow us to estimate final demand (expenses) by various sectors for various types (activities) of recreational user days. It will be necessary to modify expenditures categories in Question 13 or Exhibit C to make them compatible with final form of sectors in the input/output table, (see Section II for discussion of sectoring).

A similar pair of questions will be asked of the respondent for his entire trip, rather than just the current day. The first question will list the same activities and the respondent will be asked to split up the days of his trip among the various activities. The second question will require that the respondent allocate total trip expenditures among the sectors as he had previously done for the current day. These trip questions will be analyzed along with the day questions and adjustments may be made (e.g., we may find respondents do not allocate weekly resort fee to the current day). Second home owners would answer a pair of questions pertaining to the entire year rather than the current trip.

As noted earlier there will be some questions designed to cross check our control mechanisms. For instance, we may ask all respondents if they signed in at the Chamber of Commerce Information Booth and use this to esti-

mate the total number of visitors of each type in the area on any day. Doing this would also require knowing or estimating what percentage of daily visitors to Ely sign in at the booth. We might estimate this for a few days by counting (e.g., with road check) all cars in the area.

Furthermore, depending upon which activity a respondent is engaged in for the day, we will ask a question to determine if he was counted by our control mechanism for that activity. For example, it was previously explained how a BWCA permit question would be used in the case of canoeists.

Another question we will ask is what lake the respondent will spend the day at given they have indicated the day will be spent engaging in a water-related activity. This question will allow us to estimate total usage for various lakes in the area for various activities. Such lake usage information is required in order to estimate the econometric model for lakes detailed in the last report (Number 2). This information on the use of each lake will also provide the baseline for estimating any decrease in usage that might result from copper-nickel development.

Another question will be whether gas station sale was made using cash or paid for with credit card. This may eventually provide away of breaking down receipts of various businesses among local and non-local sales. This plan is predicated on the hypothesis that paying cash will not be independent of area (i.e., whether purchaser is local or non-local).

Essentially, these are the basic questions which will have to be finalized depending upon the surveying technique employed. In any case, the questionnaire will be roughly five pages though obvious changes will have to be made if the common site used should be restaurants rather than gas stations, (i.e., where Exhibit C was designed to be used).

TYPES OF RECREATIONAL ACTIVITY

Thus far it has been assumed that respondents to whatever type of survey is taken will indicate what recreational or other activity they are engaged in for the day. This information, along with corresponding expenditure pattern data, will allow us to construct an economic profile of various types of user days. Then these typical days, expenditure-wise, will be inflated to a total for the year using some control mechanism, usually from secondary data sources. In this section we intend to list the various types of activities we plan to delineate and also potential control mechanisms for each type. At this point this list is not definitive, further activities could be added prior to surveying or some activities may be aggregated after analysis of the survey results. Such aggregation, or combining of activities, would be possible if it is found that certain activities have the same daily expenditure pattern.

Second home owners are the first type and may be surveyed using common site approach or, alternatively, with a modified household survey using assessor records as a control mechanism. All the other types will be surveyed using the common site technique. These include the following types, with possible control mechanism in parenthesis: (1) boaters (DNR public landing records and private launch sites); (2) fishermen (same as (1) and also records of boat rentals in the area); (3) resort guests (records of guests at resorts in the areas); (4) canoers (BWCA permits issued and outfitter rental records); (5) campers (camp site permits issued); (6) general sightseers (Chamber of Commerce Booth records); and (7) other recreational activities (same as (6)).

We may also consider, as Professor Uel Blank did in Twin Cities Visitor Study mentioned earlier, business related tourists such as haulers or truckers and other business type visitors to the area who we will encounter at the common site (e.g., gas station). These groups will be the most difficult to develop control mechanisms for but we may find the information booth records helpful. Also, if a person surveyed is local but is spending the day engaged in one of these recreational activities, he will be surveyed. For local people we would also obtain an estimate of annual number of days they engage in each recreation activity though we may get this same information again on the local household survey (described in Section III).

Finally, we have only considered summer recreation activities since it is believed that this is the only period when there would be sufficient volume (customers) at the common sites to economically justify surveying. Non-summer activities such as hunting, snowmobiling, and skiing may or may not be investigated at a later date using a mail survey.

LAKE-RELATED DATA NEEDS

In order to estimate the lake econometric model proposed in Report #2, it will be necessary to collect certain information regarding lakes in the Ely area. Most of the physical information (e.g., water quality) will come from secondary data sources including the DNR, Superior National Forest (i.e., ongoing survey of lakes referred to in Report #2 which Herb Garn, Hydrologist, Duluth, has indicated will be made available), and information being gathered by physical science group of Copper-Nickel Task Force. The other important variable for each lake is usage or user days for each activity which will be estimated from the common site surveys as was just explained in the last subsection.

APPENDIX I

Questionnaire Format For Input/Output
Analysis Of The Ely Market Area

SURVEY QUESTIONNAIRE -- GENERAL FORM
ALL INDUSTRIES EXCLUDING HOUSEHOLDS

SURVEY QUESTIONNAIRE: COPPER/NICKEL GROWTH POTENTIAL STUDY

CONFIDENTIAL

This questionnaire is asking for data from your business operation for the year 1976. If you are not able to provide any information for that year, please choose a year as close to 1976 as is possible and indicate that year in this space 19_____.

Please refer to the instructions in this questionnaire for the specifics involved in answering any given question, and please call:

Dr. Richard Lichty

Department of Economics

University of Minnesota, Duluth

726-7219

Dr. Cecil Meyers

Bureau of Business & Economics

University of Minnesota, Duluth

726-7283

if there are any other questions.

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Name of Firm: _____

Address of Firm: _____

Name of Respondent: _____

Respondent's Title: _____

Respondent's Office Phone: _____

INSTRUCTIONS FOR FILLING OUT THE ELY MARKET AREA GROWTH POTENTIAL QUESTIONNAIRE

Please answer all questions. If you do not have the specific answer at hand, please provide us with your best estimate of what the answer would be.

Definitions and specific instructions for filling out the individual questionnaire items are presented below. Any other questions should be referred to Richard Lichty or Cecil Meyers as specified on the first page of this questionnaire.

1. Average Annual Employment, as defined by the U.S. Bureau of the Census, includes all full and part-time employees who received pay for any portion of the pay period ending nearest to the months of March, May, August and November.
2. Total Annual Wages and Salaries: This is the same information that was asked of you on the federal withholding tax report.
3. Total Annual Transportation Charges: The percent of your total sales volume that is composed of transportation and transportation related activities.
4. Self-explanatory.
5. Self-explanatory.
6. Value of Depreciation during 1976: This should be the same depreciation figure as was presented on your 1976 tax return.
7. Self-explanatory.
- 8A. All Federal Taxes, including excise taxes.
- 8B. All State Taxes, including sales taxes.
- 8C. All Local Taxes, including property taxes.
9. Gross Revenue of Firm: Total revenue receipts including dividends, interest, and property income.
10. If you produce products that are incidental to your primary product, please list these as secondary products. If you are a multi-product firm, please place in parenthesis the percentage of your total business volume that is taken up by each product.
11. The number of establishments covered includes all units that you have operating in Duluth, Superior, Two Harbors, or Cloquet. We would like you to separate these establishments from any other that lie outside of the region.

When listing the sales and the markets, either give dollar totals or percentage of total sales for your figures. List by product, not by firm. Also, if you do not have the exact figures at hand, please give us your best estimate.
12. Self-explanatory.
13. Self-explanatory.

1. Average Annual Employment of Firm: _____
2. Total Annual Wage and Salaries: _____
3. Total Annual Transportation Charges: _____
4. Value of Inventory on Hand at the Beginning of 1976: _____
5. Value of Inventory on Hand at the End of 1976: _____
6. Value of Depreciation During 1976: _____
7. Date that Present Building was Build: _____
6. Taxes paid to:
 - A. Federal Government: _____
 - B. State Government: _____
 - C. Local Government: _____
9. Gross Revenue of Firm: _____

INSTRUCTIONS FOR ALLOCATING SALES AND PURCHASES

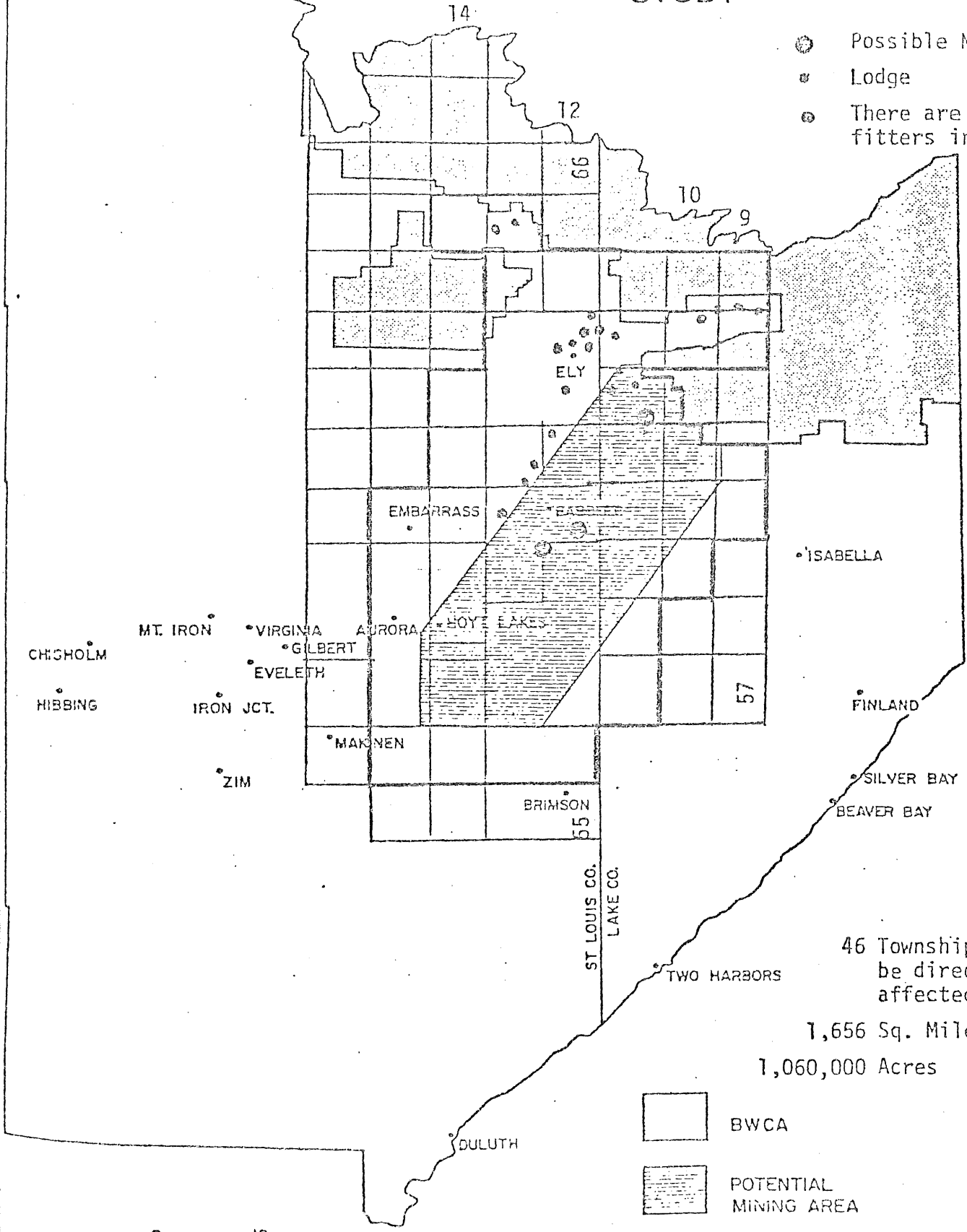
The purchasing industries may be classified by s.i.c. number or by the following industry groups if you choose not to list companies:

Sector

- * 1. Timber Production
- * 2. Timber Operations
- * 3. Sawmills
- 4. Agriculture, Food Processing
- 5. Stone, Clay, Glass Cement and other industry n.e.c.
- * 6. Construction and Contracting
- * 7. Transportation and Warehousing
- * 8. Lumber, building materials, hardware
- * 9. Automobile and truck sales, machinery & equipment supplies
- 10. Gasoline, service stations, automotive and machinery repair, supplies & salvage
- 11. Grocery, drug, sundry, dry goods, appliances, furniture, & other household goods
n.e.c.
- * 12. Food and Beverage service
- * 13. Other retail, m.e.c.
- 14. Professional, skilled and semi-skilled trades and services
- * 15. Finance, Real Estate and Insurance
- * 16. Hotel, Motel and Commercial Rental
- 17. Electric Utilities, Communications
- * 18. Wholesale and Distributing
- 19. Resorts
- 20. Recreation and Entertainment
- 21. Education, Public Education, Non-Profit Organization
- 22. Local, County, State and Federal Government
- * 23. Households
- 24. Other (Please Specify)
- * Same as in Hughes Study

COPPER-NICKEL STUDY



- Possible Minesite
- Lodge
- There are 5 outfitters in the Ely Area



46 Townships could be directly affected.

1,656 Sq. Miles

1,060,000 Acres

-  BWCA
-  POTENTIAL MINING AREA

0 10
MILES

For all questions referring to Ely Marketing Area- refer to this map.

10. List the major products or services you produce: _____

11. Indicate the 1976 sales of your establishments that are located in the region:

Total Sales \$ _____ Number of Establishments Covered _____

	<u>Total Sales</u>	<u>(%) Capital Goods</u>	<u>Are transportaion costs included?</u>	<u>Ely Market Area Sales</u>	<u>Out-of Region Sales</u>
Households (Local Recreation)	_____	_____	_____	_____	_____
Households (Non-local - Recreation)	_____	_____	_____	_____	_____
Change in Inventory	_____	_____	_____	_____	_____
Other Investment	_____	_____	_____	_____	_____
Exports Outside of Ely Area (Other than recreation)	_____	_____	_____	_____	_____
Federal Government Expenditure	_____	_____	_____	_____	_____
State and Local Government Expenditures	_____	_____	_____	_____	_____
Industrial Markets (identify) (example: Steel Castings)	(400,000)	(100%)	(Yes)	(20%)	(80%)
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

12. Please indicate the approximate cost of the materials, parts, supplies, and business services you purchased from other establishments in 1976:

\$ _____ OR _____ % of your sales dollar.

13. Allocate your purchases according to industries and the location of these industries. Please estimate the percentage of dollar totals if you cannot provide exact data.

Purchased Products and/or Materials	Total Purchases	Ely Market Area Firms	U. S. Firms	Foreign Firms	(I) Supplied by Industries (W) Supplied by Wholesalers
(Example: Structural Steel)	(\$250,000)	(35%)	(35%)	(30%)	(W-100%)
Purchased Services					

COPPER/NICKEL STUDY

SURVEY QUESTIONNAIRE

INSURANCE -- REAL ESTATE

SURVEY QUESTIONNAIRE: COPPER/NICKEL GROWTH POTENTIAL STUDY

CONFIDENTIAL

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Address of Firm: _____

Name of Respondent: _____

Respondent's Title: _____

Respondent's Office Phone: _____

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Definitions and specific instructions for filling out the individual questionnaire items are presented below. Any other questions should be referred to Dr. Richard Lichty or Dr. Cecil Meyers as specified on the first page of this questionnaire.

- I-1. If you produce products that are incidental to your primary product, please list these as secondary products. If you are a multi-product firm, please place in parenthesis the percentage of your total business volume that is taken up by each product.
- I-2. The number of establishments covered includes all units that you have operating in the Ely Market Area. We would like you to separate these establishments from any other that lie outside of the region.

When listing the sales and the markets, either give dollar totals or percentage of total sales for your figures. List by product, not by firm. Also, if you do not have the exact figures at hand, please give us your best estimate.

II-A.

1. Average Annual Employment, as defined by the U.S. Bureau of the Census, includes all full and part-time employees who received pay for any portion of the pay period ending nearest to the months of March, May, August and November.

II-A.

2. Total Annual Wages and Salaries: This is the same information that was asked of you on the federal withholding tax report.

- II-B. Value of Depreciation during 1976: This should be the same depreciation figure as was presented on your 1976 tax return.

II-C.

1. All Federal Taxes including excise taxes, social security, etc.

II-C.

2. All State Taxes including sales taxed.

II-C.

3. All Local Taxes including property taxes.

- II-D. Please indicate the total dollar value of the rents paid for real estate and equipment. If there are several major categories of equipment that are rented by your firm, please itemize these under the "Other" category.

- II-E. Self-explanatory.

- II-F. Please itemize your 1976 expenditures for supplies in as detailed a manner as possible.

- II-G. Self-explanatory.

- II-H. Please specify the legal services that you used such as service contracts, court costs, etc.

INSTRUCTIONS FOR ALLOCATING SALES AND PURCHASES

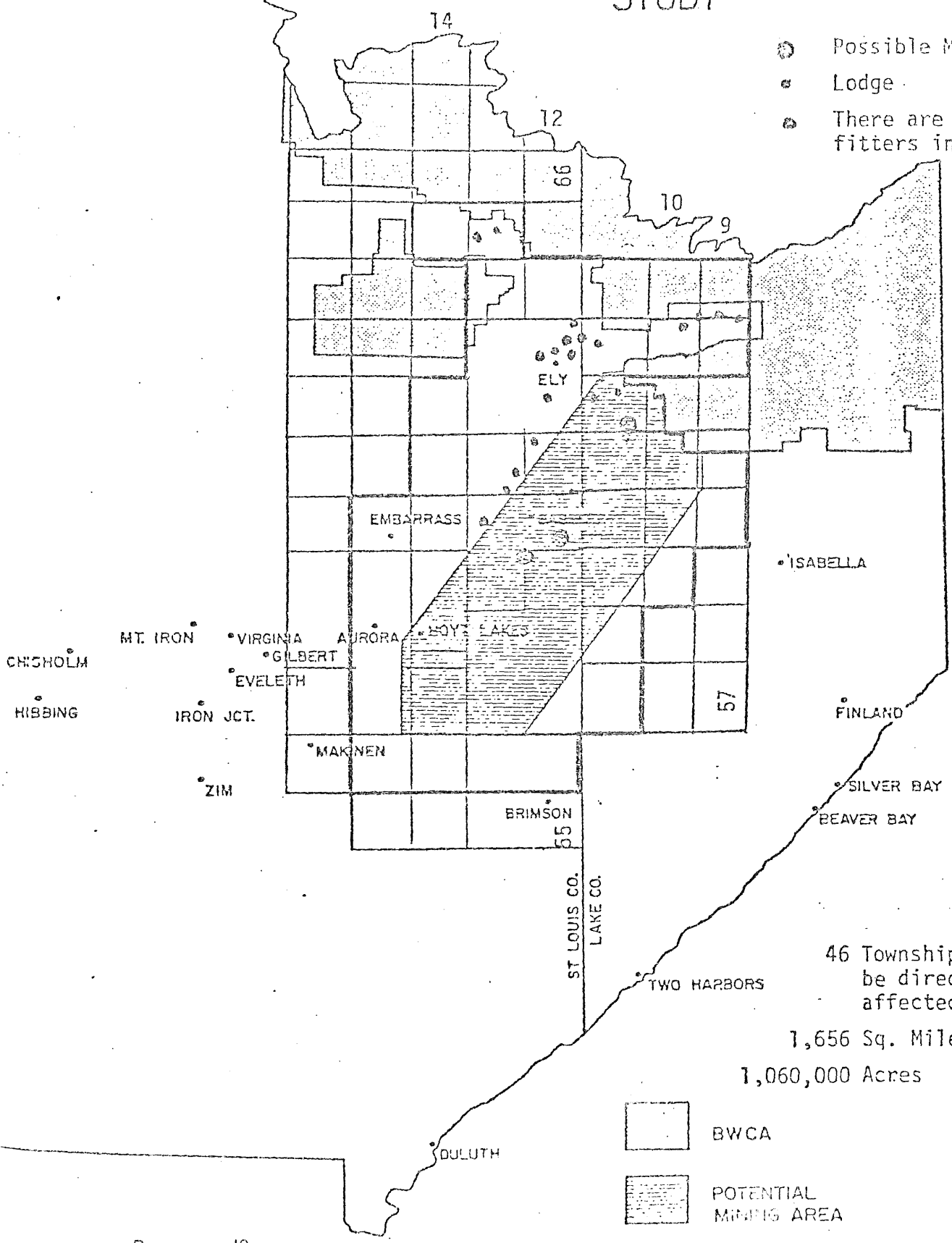
The purchasing industries may be classified by s.i.c. number or by the following industry groups if you choose not to list companies:

Sector

1. Timber Production
2. Timber Operations
3. Sawmills
4. Agriculture, Food Processing
5. Stone, Clay, Glass Cement and other industry n.e.c.
- * 6. Construction and Contracting
- * 7. Transportation and Warehousing
- * 8. Lumber, building materials, hardware
- * 9. Automobile and truck sales, machinery & equipment supplies
10. Gasoline, service stations, automotive and machinery repair, supplies & salvage
11. Grocery, drug, sundry, dry goods, appliances, furniture, & other household goods
n.e.c.
- * 12. Food and Beverage service
- * 13. Other retail, m.e.c.
14. Professional, skilled and semi-skilled trades and services
- * 15. Finance, Real Estate and Insurance
- * 16. Hotel, Motel and Commercial Rental
17. Electric Utilities, Communications
- * 18. Wholesale and Distributing
19. Resorts
20. Recreation and Entertainment
21. Education, Public Education, Non-Profit Organization
22. Local, County, State and Federal Government
- * 23. Households
24. Other (Please Specify)
- * Same as in Hughes Study

COPPER-NICKEL STUDY

- Possible Minesite
- Lodge
- There are 5 out-fitters in the Ely Area



46 Townships could be directly affected.

1,656 Sq. Miles

1,060,000 Acres

- BWCA
- POTENTIAL MINING AREA

0 10
MILES

For all questions referring to Ely Marketing Area - refer to this map.

1. List the major products or services you produce: _____

2. Indicate the 1976 receipts of your establishments that are located in the region:

Total Receipts \$ _____ Number of Establishments Covered _____

	Total Receipts	Percentage of Total Receipts From Ely Market Area	Percentage of Total Receipts From Out-of-Ely Market Area
Household Consumers	_____	_____	_____
Foreign Export	_____	_____	_____
Industrial Markets (Identify)	_____	_____	_____
(Example: Banks)	(\$2,000)	(80%)	(20%)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

II. Operating Expense Analysis

From The
Ely Market Area

From out of
the Ely Market
Area

A. Wage and Employment

1. Average Annual Employment _____

2. Wages and Salaries (annual) _____

B. Depreciation (dollar value) _____

C. Taxes Paid

1. To Federal Government _____

2. To Sate Government _____

3. To County and Local Government _____

D. Rent Analysis

1. Real Estate _____

2. Equipment _____

3. Other (specify) _____

E. Advertising

1. Radio and T. V. _____

2. Newspaper _____

3. Other (specify) _____

F. Supplies (specify)

COPPER/NICKEL STUDY
SURVEY QUESTIONNAIRE
FINANCIAL SECTOR

SURVEY QUESTIONNAIRE: COPPER/NICKEL GROWTH POTENTIAL STUDY

CONFIDENTIAL

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Name of Firm: _____

Address of Firm: _____

Name of Respondent: _____

Respondent's Title: _____

Respondent's Office Phone: _____

INSTRUCTIONS FOR FILLING OUT THE ELY MARKET AREA GROWTH POTENTIAL
QUESTIONNAIRE

Please answer all questions. If you do not have the specific answer at hand, please provide us with your best estimate of what the best answer would be.

Definitions and specific instructions for filling out the individual questionnaire items are presented below. Any other questions should be referred to Dr. Richard Lichty or Dr. Cecil Meyers as specified on the first page of this questionnaire.

- I. We are asking for interest earnings on your loans, not the value of the loans themselves. Note that this section also asks for other earnings from your operation. Please be as precise as possible in categorizing the source of these earnings.
- II. We would appreciate your summarizing your operating expenses by the categories shown in the questionnaire. In all cases, please be as specific as is possible when allocating these expenses.
 - A-1. Average Annual Employment, as defined by the U.S. Bureau of the Census, includes all full and part-time employees who received pay for any portion of the pay period ending nearest to the months of March, May, August and November.
 - A-2. Total Annual Wages and Salaries: This is the same information that was asked of you on the federal withholding tax report.
 - B. Value of Depreciation during 1976: This should be the same depreciation figure as was presented on your 1976 tax return.
 - C-1. All Federal Taxes including excise taxes, social security, etc.
 - C-2. All State Taxes including sales taxes.
 - C-3. All Local Taxes including property taxes.
 - D. Please indicate the total dollar value of the rents paid for real estate and equipment. If there are several major categories of equipment that are rented by your firm, please itemize these under the "Other" category.
 - E. Again, please specify total dollar amounts when answering this question.
 - F. Self-explanatory.
 - G. Please itemize your 1976 expenditures or supplies in as detailed a manner as possible.
 - H. Self-explanatory.
 - I. Please specify the legal services that you used such as service contracts, court costs, etc.

- J. Self-explanatory.
- K. Self-explanatory.
- L. Please give the total dollar value of office equipment that was purchased during the year.
- M. If you can, itemize your other expenses so as to fill out the total dollar value of operating expenses that your firm incurred.

INSTRUCTIONS FOR ALLOCATING SALES AND PURCHASES

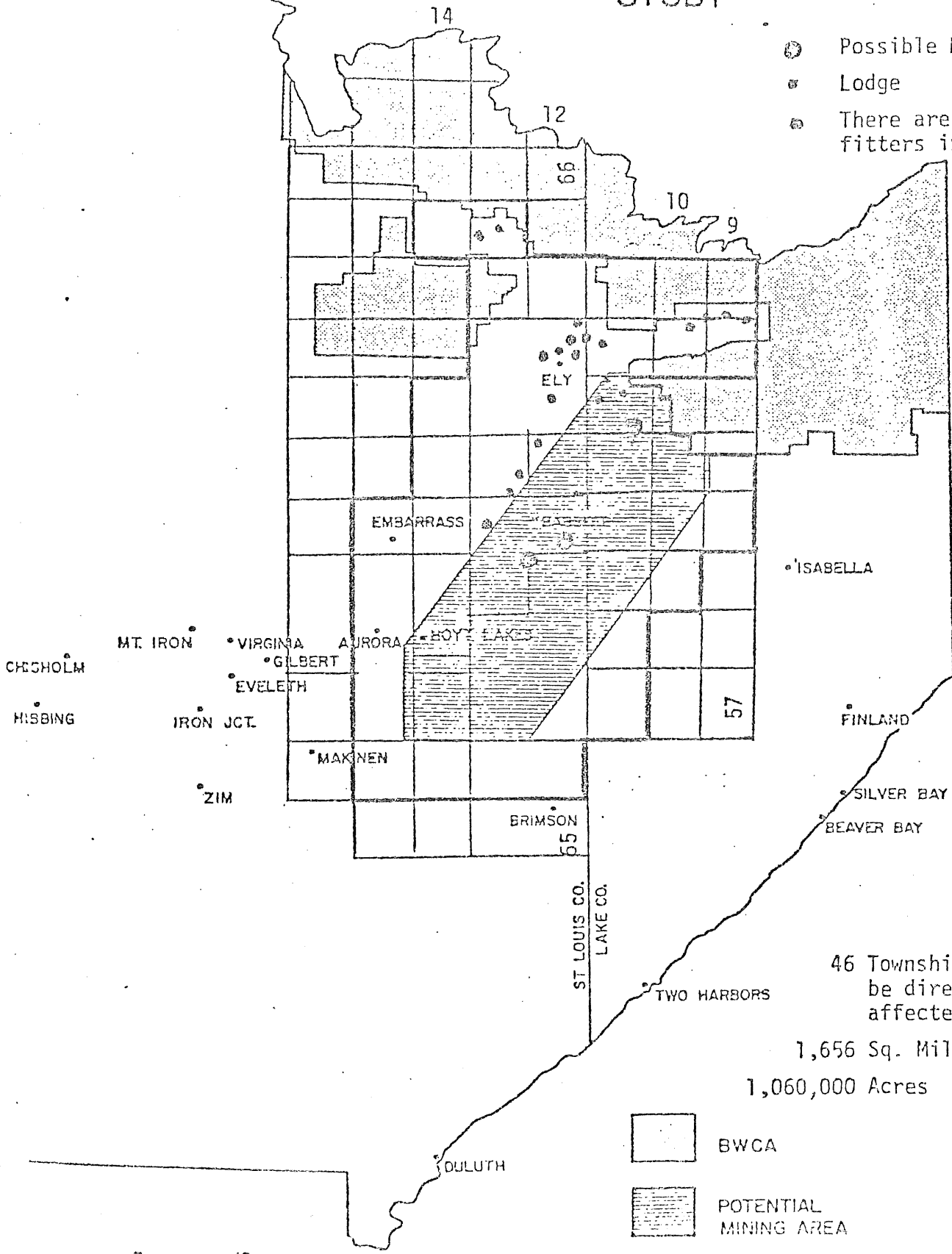
The purchasing industries may be classified by s.i.c. number or by the following industry groups if you choose not to list companies:

Sector

1. Timber Production
 2. Timber Operations
 3. Sawmills
 4. Agriculture, Food Processing
 5. Stone, Clay, Glass Cement and other industry n.e.c.
 6. Construction and Contracting
 7. Transportation and Warehousing
 8. Lumber, building materials, hardware
 9. Automobile and truck sales, machinery & equipment supplies
 10. Gasoline, service stations, automotive and machinery repair, supplies & salvage
 11. Grocery, drug, sundry, dry goods, appliances, furniture, & other household goods
n.e.c.
 12. Food and Beverage service
 13. Other retail, m.e.c.
 14. Professional, skilled and semi-skilled trades and services
 15. Finance, Real Estate and Insurance
 16. Hotel, Motel and Commercial Rental
 17. Electric Utilities, Communications
 18. Wholesale and Distributing
 19. Resorts
 20. Recreation and Entertainment
 21. Education, Public Education, Non-Profit Organization
 22. Local, County, State and Federal Government
 23. Households
 24. Other (Please Specify)
- Same as in Hughes Study

COPPER-NICKEL STUDY

- Possible Minesite
- Lodge
- There are 5 out-fitters in the Ely Area



46 Townships could be directly affected.
1,656 Sq. Miles
1,060,000 Acres

- BWCA
- ▨ POTENTIAL MINING AREA

0 10
MILES

For all questions referring to the Ely Marketing Area - refer to this map

<u>Operating Earnings Analysis</u>	<u>From the Ely Market Area</u>	<u>From out-of- the Ely Market Area</u>
A. Interest Earnings (total)		
1. Consumer loans		
2. Industrial loans (by industry)		
3. Other loans (identify)		
B. Non-interest Earnings (total)		
1. Security Earnings		
2. Service Earnings (by types)		
3. Other Earnings (identify)		

II. Operating Expense Analysis

From the
Ely Market Area

From out-of-
the Ely Market
Area

A. Wage and Employment

1. Average Annual Employment _____

2. Wages and Salaries (annual) _____

B. Depreciation (dollar value) _____

C. Taxes Paid

1. To Federal Government _____

2. To State Government _____

3. To County & Local Government _____

D. Rent Analysis

1. Real Estate _____

2. Equipment _____

3. Other (specify) _____

E. Insurance

1. FDIC of FSLIC _____

2. Other (specify) _____

Advertising

1. Radio and T. V. _____

2. Newspaper _____

3. Other (specify) _____

I. Operating Expense Analysis

From the
Ely Market Area

From out-of-
the Ely Market
Area

G. Supplies (specify)

H. Utilities

1. Telephone & Telegraph

2. Electricity

3. Gas

4. Water and Sewer

I. Legal Services (specify)

J. Auditing Services

K. Protection Services

L. Office Equipment

M. Other Expenses (specify)

COPPER/NICKEL STUDY
SURVEY QUESTIONNAIRE

SERVICE INDUSTRIES

SURVEY QUESTIONNAIRE: COPPER/NICKEL GROWTH POTENTIAL STUDY

CONFIDENTIAL

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Address of Firm: _____

Name of Respondent: _____

Respondent's Title: _____

Respondent's Office Phone: _____

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- 2. Total Annual Wages and Salaries: This is the same information that was asked of you on the federal withholding tax report.
- 3A. All Federal Taxes, including excise taxes, social security, etc.
- 3B. All State Taxes, including sales taxes.
- 3C. All Local Taxes, including property taxes.

1. Average Annual Employment of Firm: _____

2. Total Annual Wage and Salaries: _____

3. Taxes Paid To:

- A. Federal Government _____
- B. State Government _____
- C. Local Government _____

INSTRUCTIONS FOR ALLOCATING SALES AND PURCHASES

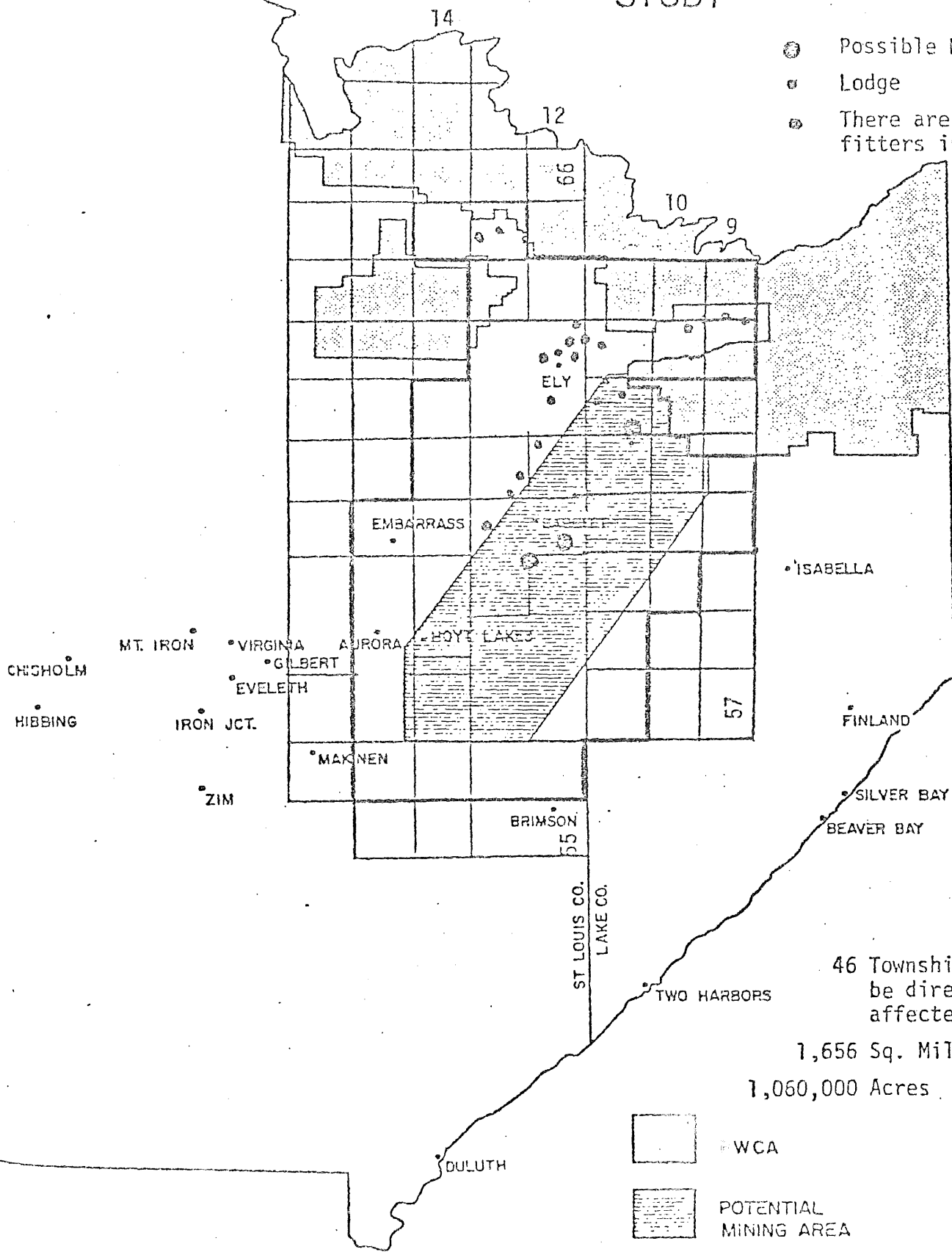
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4. Agriculture, Food Processing
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- * 6. Construction and Contracting
- * 7. Transportation and Warehousing
- * 8. Lumber, building materials, hardware
- * 9. Automobile and truck sales, machinery & equipment supplies
10. Gasoline, service stations, automotive and machinery repair, supplies & salvage
11. Grocery, drug, sundry, dry goods, appliances, furniture, & other household goods
n.e.c.
- * 12. Food and Beverage service
- * 13. Other retail, m.e.c.
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- * 15. Finance, Real Estate and Insurance
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24. Other (Please Specify)
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

COPPER-NICKEL STUDY

- Possible Minesite
- Lodge
- ⊙ There are 5 out-fitters in the Ely Area



46 Townships could be directly affected.

1,656 Sq. Miles
1,060,000 Acres

-  WCA
-  POTENTIAL MINING AREA



For all questions referring to Ely Marketing Area - refer to this map.

6. Please indicate the approximate cost of the materials, parts, supplies, and business services you purchased from other establishments in 1976:

\$ _____ OR _____ % of your sales dollar.

7. Allocate your purchases according to industries and the location of these industries. Please estimate the percentage of dollar totals if you cannot provide exact data.

Purchased Products
and/or
Materials

Total
Purchases

Ely Market
Area Firms

U.S.
Firms

Foreign
Firms

(Example: Paper & Supplies)

(\$3,000)

(35%)

(35%)

(30%)

Purchased Services

(Example: Law Services)

(\$500)

(70%)

(30%)

COPPER/NICKEL STUDY
SURVEY QUESTIONNAIRE
TRANSPORTATION

SURVEY QUESTIONNAIRE: COPPER/NICKEL GROWTH POTENTIAL STUDY

CONFIDENTIAL

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INSTRUCTIONS FOR FILLING OUT THE ELY MARKET AREA GROWTH POTENTIAL
QUESTIONNAIRE

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3. Value of Depreciation during 1976: This should be the same depreciation figure as was presented on your 1976 tax return.
4. Self-explanatory.
- 5A. All Federal Taxes including excise taxes, social security, etc.
- 5B. All State Taxes including sales taxes.
- 5C. All Local Taxes including property taxes.
6. Gross Revenue of Firm: Total revenue receipts including dividends, interest, and property income.
7. Capital Expenditures for 1976 includes the total outlay in that period for equipment to be used in your production process. Under A, B, and C, break down the percentages of the total outlay as was asked for in the first part of this section.
8. If you produce products that are incidental to your primary product, please list these as secondary products. If you are a multi-product firm, please place in parenthesis the percentage of your total business volume that is taken up by each product.
9. The number of establishments covered includes all units that you have operating in the Ely Marketing Area. We would like you to separate these establishments from any other that lie outside of the region.

When listing the sales and the markets, either give dollar totals or percentage of total sales for your figures. List by product, not by firm. Also, if you do not have the exact figures at hand, please give us your best estimate.
10. Self-explanatory.
11. Self-explanatory.

- 1. Average Annual Employment of Firm: _____
- 2. Total Annual Wage and Salaries: _____
- 3. Value of Depreciation During 1976: _____
- 4. Date that Present Building was Build: _____
- 5. Taxes Paid To:
 - A. Federal Government: _____
 - B. State Government: _____
 - C. Local Government: _____
- 6. Gross Revenue of Firm: _____
- 7. Capital Expenditures for 1976 (total) _____

	<u>% From Ely Firms</u>	<u>% From Outside Firms</u>
A. New Construction and Plant Additions	_____	_____
B. New Machinery and Equipment	_____	_____
C. New and Second Hand Capital Goods	_____	_____

INSTRUCTIONS FOR ALLOCATING SALES AND PURCHASES

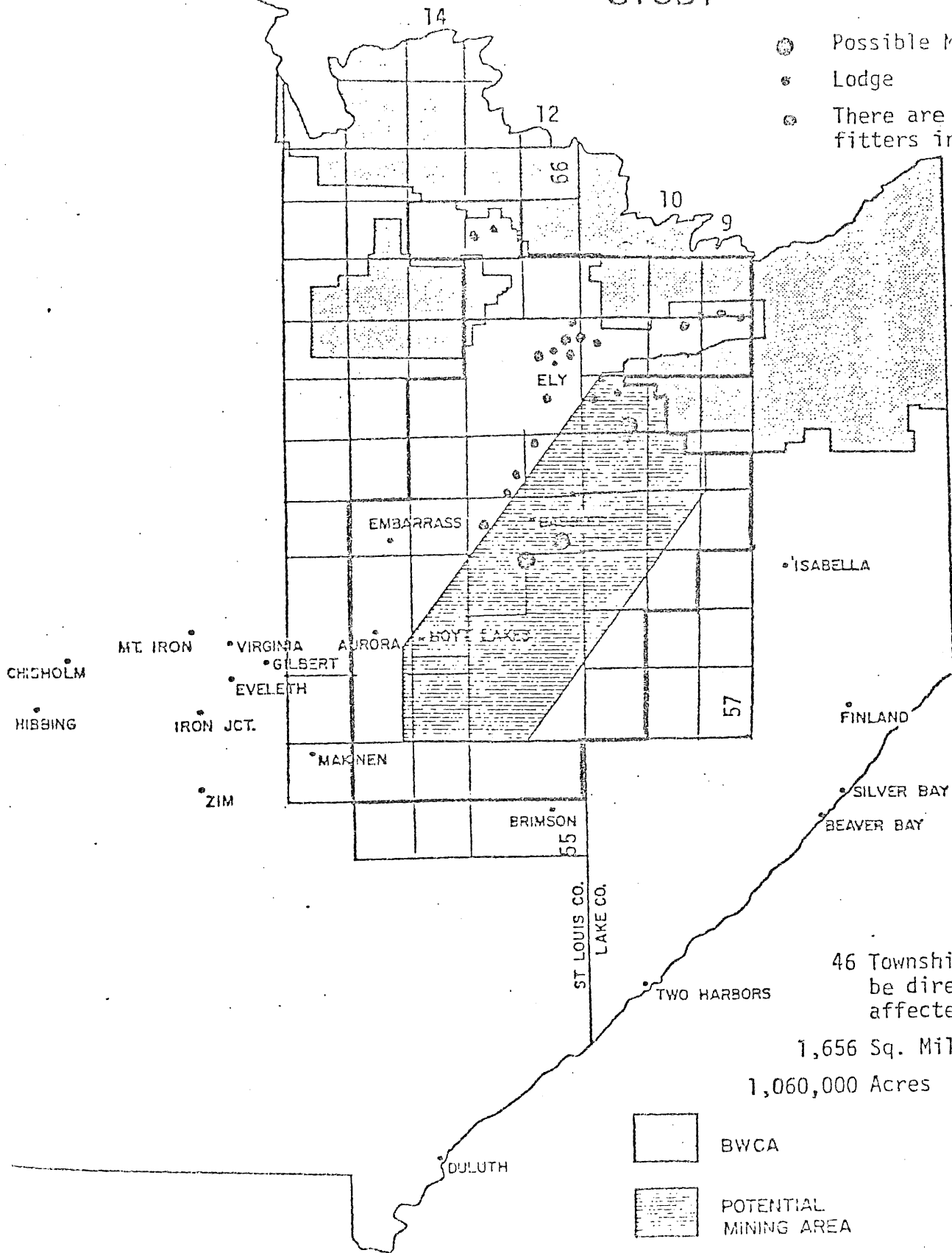
The purchasing industries may be classified by s.i.c. number or by the following industry groups if you choose not to list companies:

Sector

1. Timber Production
2. Timber Operations
3. Sawmills
4. Agriculture, Food Processing
5. Stone, Clay, Glass Cement and other industry n.e.c.
- * 6. Construction and Contracting
- * 7. Transportation and Warehousing
- * 8. Lumber, building materials, hardware
- * 9. Automobile and truck sales, machinery & equipment supplies
10. Gasoline, service stations, automotive and machinery repair, supplies & salvage
11. Grocery, drug, sundry, dry goods, appliances, furniture, & other household goods
n.e.c.
- * 12. Food and Beverage service
- * 13. Other retail, m.e.c.
14. Professional, skilled and semi-skilled trades and services
- * 15. Finance, Real Estate and Insurance
- * 16. Hotel, Motel and Commercial Rental
17. Electric Utilities, Communications
- * 18. Wholesale and Distributing
19. Resorts
20. Recreation and Entertainment
21. Education, Public Education, Non-Profit Organization
22. Local, County, State and Federal Government
- * 23. Households
24. Other (Please Specify)
- * Same as in Hughes Study

-58-
COPPER-NICKEL
STUDY

- Possible Minesite
- Lodge
- There are 5 out-fitters in the Ely Area



46 Townships could be directly affected.

1,656 Sq. Miles

1,060,000 Acres



BWCA



POTENTIAL MINING AREA

0 10
MILES

For all questions referring to the Ely Market Area - refer to this map.

SALE ANALYSIS

8. List the major products or services you sell: _____

9. Indicate the 1976 sales of your establishments that are located in the region:

Total Sales \$ _____ Number of Establishments Covered: _____

	<u>Total Sales</u>	<u>Ely Market Area Sales</u>	<u>Out-of-the Ely Market Area Sales</u>	<u>Foreign Sales</u>
Households (Local Recreation)	_____	_____	_____	_____
Households (Non-local - Recreation)	_____	_____	_____	_____
Change in Inventory	_____	_____	_____	_____
Other Investment	_____	_____	_____	_____
Exports - outside of Ely Area (Other than Recreation)	_____	_____	_____	_____
Federal Government Expenditure	_____	_____	_____	_____
State and Local Government Expenditures	_____	_____	_____	_____
Industrial Markets (Identify) (Example: Lumber Products)	(400,000)	(80%)	(20%)	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

PURCHASES ANALYSIS

12. Please indicate the approximate cost of the materials, parts, supplies, and business services you purchased from other establishments in 1976:

\$ _____ OR _____ % of your sales dollar.

13. Allocate your purchases according to industries and the location of these industries. Please estimate the percentage of dollar totals if you cannot provide exact data.

Purchased Products
and/or
Materials

Total
Purchases

Ely Market
Area Firms

U. S.
Firms

Foreign
Firms

Purchased
Services

SURVEY QUESTIONNAIRE
MEDICAL EXCLUDING HOSPITALS

SURVEY QUESTIONNAIRE: COPPER/NICKEL GROWTH POTENTIAL STUDY

CONFIDENTIAL

This questionnaire is asking for data from your business operation for the year 1976. If you are not able to provide any information for that year, please choose a year as close to 1976 as is possible and indicate that year in this space 19_____.

Please refer to the instructions in this questionnaire for the specifics involved in answering any given question, and please call:

Dr. Richard Lichty

Department of Economics

University of Minnesota, Duluth

726-7219

Dr. Cecil Meyers

Bureau of Business & Economics

University of Minnesota, Duluth

726-7283

if there are any other questions.

Thank you in advance for your cooperation on this most important study. After the data contained in this questionnaire has been properly coded, this sheet will be destroyed in order to protect the confidential aspects of this survey.

Name of Firm: _____

Address of Firm: _____

Name of Respondent: _____

Respondent's Title: _____

Respondent's Office Phone: _____

INSTRUCTIONS FOR FILLING OUT THE ELY MARKETING AREA GROWTH POTENTIAL
QUESTIONNAIRE

Please answer all questions. If you do not have the specific answer at hand, please provide us with your best estimate of what the answer would be.

Definitions and specific instructions for filling out the individual questionnaire items are presented below. Any other questions should be referred to Dr. Richard Lichty or Dr. Cecil Meyers as specified on the first page of this questionnaire.

1. Average Annual Employment, as defined by the U.S. Bureau of the Census, includes all full and part-time employees who received pay for any portion of the pay period ending nearest to the months of March, May, August and November.
2. Total Annual Wages and Salaries: This is the same information that was asked of you on the federal withholding tax report.
- 3-4. Self-explanatory.

1. Average Annual Employment of Firm: _____

2. Total Annual Wage and Salaries: _____

3. Taxed Paid To:

A. Federal Government: _____

B. State Government: _____

C. Local Government: _____

4. Gross Revenue: _____

INSTRUCTIONS FOR ALLOCATING SALES AND PURCHASES

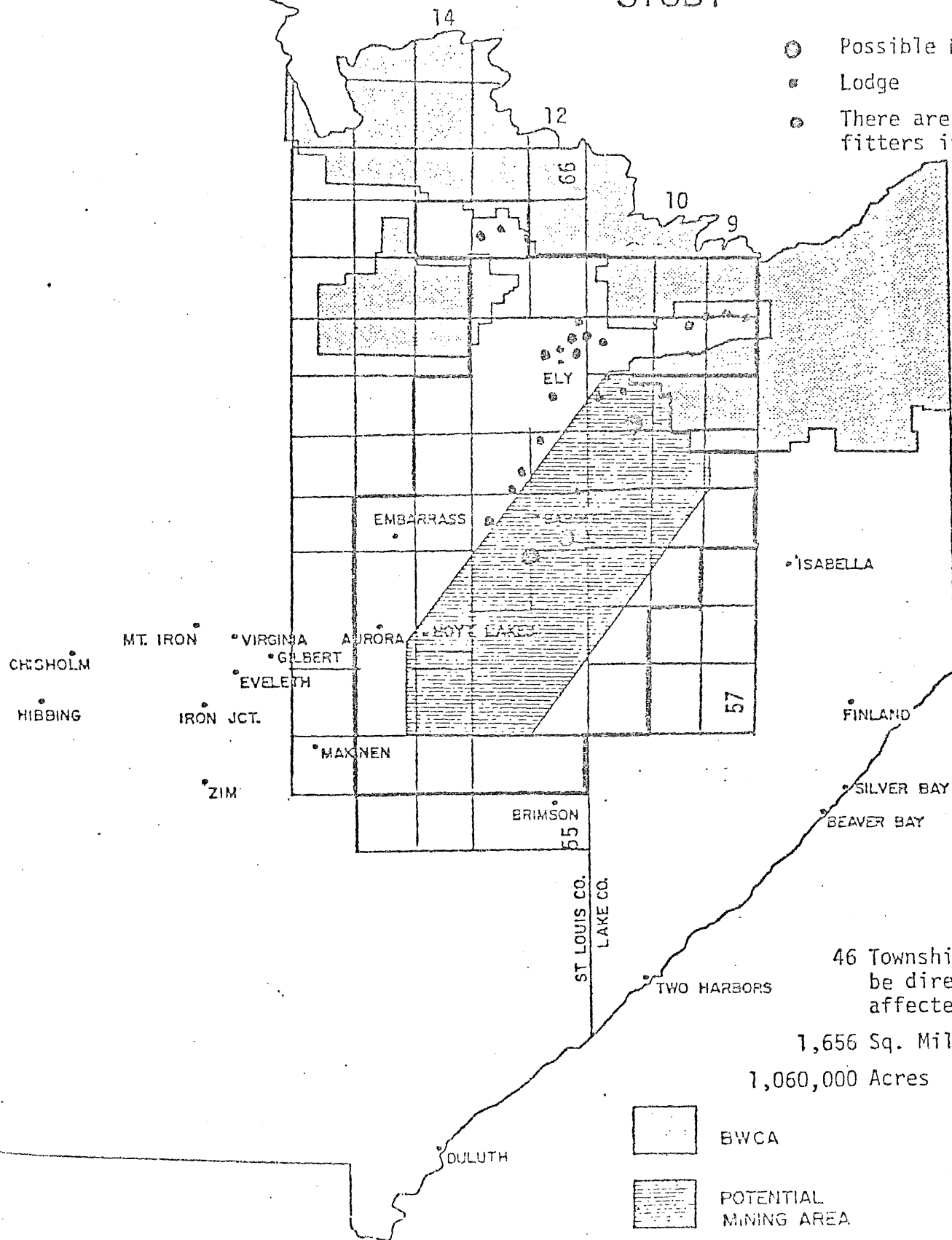
The purchasing industries may be classified by s.i.c. number or by the following industry groups if you choose not to list companies:

Sector

1. Timber Production
2. Timber Operations
3. Sawmills
4. Agriculture, Food Processing
5. Stone, Clay, Glass Cement and other industry n.e.c.
6. Construction and Contracting
7. Transportation and Warehousing
8. Lumber, building materials, hardware
9. Automobile and truck sales, machinery & equipment supplies
10. Gasoline, service stations, automotive and machinery repair, supplies & salvage
11. Grocery, drug, sundry, dry goods, appliances, furniture, & other household goods
n.e.c.
- * 12. Food and Beverage service
- * 13. Other retail, m.e.c.
14. Professional, skilled and semi-skilled trades and services
- * 15. Finance, Real Estate and Insurance
- * 16. Hotel, Motel and Commercial Rental
17. Electric Utilities, Communications
- * 18. Wholesale and Distributing
19. Resorts
20. Recreation and Entertainment
21. Education, Public Education, Non-Profit Organization
22. Local, County, State and Federal Government
- * 23. Households
24. Other (Please Specify)
- * Same as in Hughes Study

COPPER-NICKEL STUDY



- Possible Minesite
- Lodge
- There are 5 outfitters in the Ely Area



46 Townships could be directly affected.

1,656 Sq. Miles

1,060,000 Acres

-  BWCA
-  POTENTIAL MINING AREA

0 10
MILES

For all questions referring to the Ely Market Area - refer to this map.

- 5. Please indicate the approximate cost of the materials, parts, supplies, and services you purchased from other establishments in 1976.
- 6. Allocate your purchases according to industries and the location of these industries. Please estimate the percentage of dollar totals if you cannot provide exact data.

Purchased Products
and/or
Materials

Total
Purchases

Ely Market
Area Firms

U.S.
Firms

Foreign
Firms

Purchased Services

COPPER/NICKEL STUDY
SURVEY QUESTIONNAIRE

CONSTRUCTION SECTOR

SURVEY QUESTIONNAIRE: COPPER/NICKEL GROWTH POTENTIAL STUDY

CONFIDENTIAL

This questionnaire is asking for data from your business operation for the year 1976. If you are not able to provide any information for that year, please choose a year as close to 1976 as is possible and indicate that year in this space 19_____.

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INSTRUCTIONS FOR FILLING OUT THE ELY MARKET AREA GROWTH POTENTIAL
QUESTIONNAIRE

Please answer all questions. If you do not have the specific answer at hand, please provide us with your best estimate of what the best answer would be.

Definitions and specific instructions for filling out the individual questionnaire items are presented below. Any other questions should be referred to Dr. Richard Lichty or Dr. Cecil Meyers as specified on the first page of this questionnaire.

- I-A. Dollar Value of Construction Work for the year asks for your estimate of the value of the construction work actually put in place for the year 1976.
1. Dollar Value of Contracts Received asks for these contracts even if no work has begun on the project.
 2. Dollar Value of Contracts Completed includes all contracts that were completed during 1976 regardless of when these contracts were started.
 - 3-6. These percentages should relate only to the actual work done during the year. It should not relate to the contracts discussed in I-A: 1 and 2.
- I-B. 1-3. Self-explanatory.
4. Please itemize income sources other than those specifically mentioned above.
- I-C. These should be percentages relating to the value given in item I-A, Dollar Value of Construction Work for the Year.
- II-A 1. Average Annual Employment, as defined by the U.S. Bureau of the Census, includes all full and part-time employees who received pay for any portion of the pay period ending nearest to the months of March, May, August, and November.
- 2-4. Self-explanatory.
- II-B. In a figure for change in inventory is available, please substitute change in inventory for these two questions.
- II-C. Equipment Analysis (Total) is asking for the total dollar expenditure made for physical equipment during 1976.
1. Value of Depreciation during 1976: This should be the same depreciation figure as was presented on your 1976 tax return.
 - 2-4. These should be percentage figures based on the total equipment cost figure given in II-C above.
- II-D Self-explanatory.
- II-E. Total Value of Sub-Contracts in 1976 should be the value of these contracts

let by your firm to other firms for their contribution to construction. It should, therefore, reflect the value of work actually completed during the year 1976 by your sub-contractor.

Please try to break these sub-contracts down by the type of sub-contractor that you deal with. For example, 30% of your total sub-contracts may have been let to local electrical firms, 10% to nonlocal electrical firms, 40% to local plumbing establishments, etc.

INSTRUCTIONS FOR ALLOCATING SALES AND PURCHASES

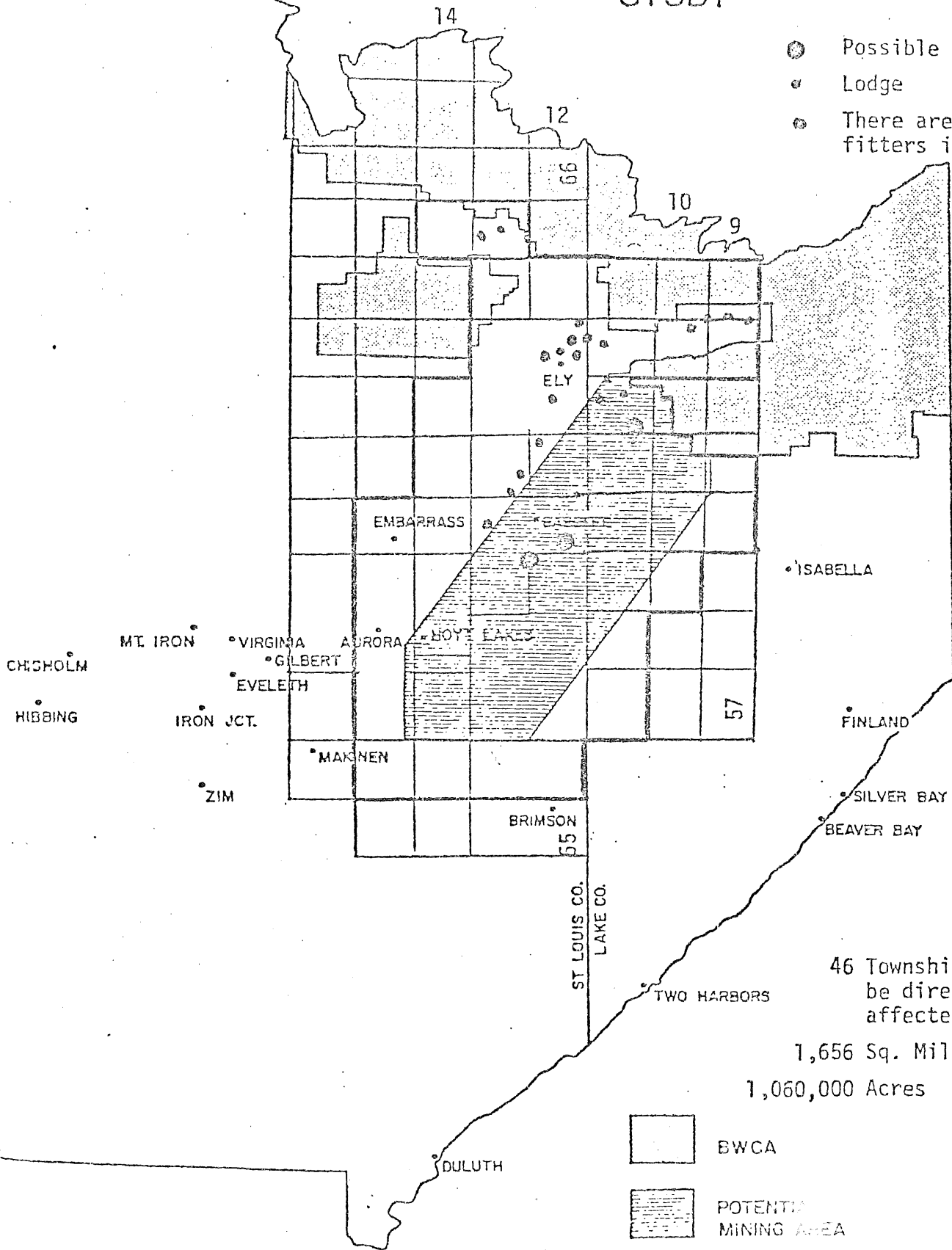
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Sector

- * 1. Timber Production
- * 2. Timber Operations
- * 3. Sawmills
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- 5. Stone, Clay, Glass Cement and other industry n.e.c.
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- * 7. Transportation and Warehousing
- * 8. Lumber, building materials, hardware
- * 9. Automobile and truck sales, machinery & equipment supplies
- 10. Gasoline, service stations, automotive and machinery repair, supplies & salvage
- 11. Grocery, drug, sundry, dry goods, appliances, furniture, & other household goods
n.e.c.
- * 12. Food and Beverage service
- * 13. Other retail, m.e.c.
- 14. Professional, skilled and semi-skilled trades and services
- * 15. Finance, Real Estate and Insurance
- * 16. Hotel, Motel and Commercial Rental
- 17. Electric Utilities, Communications
- * 18. Wholesale and Distributing
- 19. Resorts
- 20. Recreation and Entertainment
- 21. Education, Public Education, Non-Profit Organization
- 22. Local, County, State and Federal Government
- * 23. Households
- 24. Other (Please Specify)
- * Same as in Hughes Study



-70-
COPPER-NICKEL
STUDY

- Possible Minesite
- Lodge
- There are 5 out-fitters in the Ely Area



46 Townships could be directly affected.

1,656 Sq. Miles
1,060,000 Acres

-  BWCA
-  POTENTIAL MINING AREA

0 10
MILES

For all questions referring to Ely Marketing Area - refer to this map.

I. Sales Analysis

A. Dollar Value of Construction Work for the Year _____

- 1. Dollar Value of Contracts Received _____
- 2. Dollar Value of Contracts Completed _____
- 3. Percent of Work in Ely Market Area _____
- 4. Percent of Work in Arrowhead Region _____
- 5. Percent of Work elsewhere _____
- 6. Percent of Work taken up in Repairs or Maintenance _____

B. Dollar Value of Receipts from Nonconstruction Activities

- 1. Real Estate Operations _____

- 2. Equipment Lease or Sale (Please Specify) _____

- 3. Material Lease or Sale (Please Specify) _____

- 4. Other Income (Please Specify) _____

C. Customer Analysis	<u>% of Total Construction Receipts</u>	<u>% of Local Construction Receipts</u>
1. Residential	_____	_____
2. Commercial	_____	_____
3. Industrial	_____	_____
4. Federal Gov't: Defense	_____	_____
5. Federal Gov't: Nondefense	_____	_____
6. State Government	_____	_____
7. County and City Government	_____	_____

II. EXPENSE ANALYSIS

A. Employment Analysis

1. Average Number of Employees for the Year _____

2. Highest Employment for the Year _____

3. Lowest Employment for the Year _____

4. Total Annual Wages and Salaries _____

B. Inventory Analysis

1. Value of Inventory on Hand at the Beginning of 1976: _____

2. Value of Inventory on Hand at the End of 1976: _____

c. Equipment Analysis (total) _____

	<u>% of Total Equipment Purchases</u>	<u>% of Local Equipment Purchases</u>
1. Depreciation on Existing Equipment	_____	_____
2. Rentals Paid on Equipment	_____	_____
3. Maintenance & Repair Costs	_____	_____
4. Other Equipment Related Costs (Please Specify)	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

D. Other Expenses (total) _____

	<u>% of Total Expenses, Other</u>	<u>% of Local Expenses, Other</u>
1. Office Supplies	_____	_____
2. Electricity	_____	_____

APPENDIX II

Proposed Sectors For Transactions and Final Demand
Components For Ely Area Input/Output Tables

SECTORS OF ELY AREA I/O: First Attempt

- * 1. Timber Production
- * 2. Timber Operations
- * 3. Sawmills
- 4. Agriculture, Food Processing
- 5. Stone, Clay, Glass Cement and other industry n.e.c.
- * 6. Construction and Contracting
- * 7. Transportation and Warehousing
- * 8. Lumber, building materials, hardware
- * 9. Automobile and truck sales, machinery & equipment supplies
- 10. Gasoline, service stations, automotive and machinery repair, supplies & salvage
- 11. Grocery, drug, sundry, dry goods, appliances, furniture, & other household goods
n.e.c.
- * 12. Food and Beverage service
- * 13. Other retail, n.e.c.
- 14. Professional, skilled and semi-skilled trades and services
- * 15. Finance, Real Estate and Insurance
- * 16. Hotel, Motel and Commercial Rental
- 17. Electric Utilities, Communications
- * 18. Wholesale and Distributing
- 19. Resorts
- 20. Recreation and Entertainment
- 21. Education, Public Education, Non-Profit Organizations
- 22. Local, County, State and Federal Government
- * 23. Households

* Same as in Hughes Study

POSSIBLE FINAL DEMAND SECTORS FOR ELY I/O

1. Households (Local Recreation)
2. Households (Non-local - Recreation)
3. Change in Inventory
4. Other Investment
5. Exports (Other than recreation)
6. Federal Government Expenditure
7. State and Local Government Expenditures

TABLE I: NUMBER OF FIRMS BY INDUSTRY
CATEGORY IN THE ELY MARKET AREA

Timber Production

5 Logging

Timber Operations

10 Cutting Operations

Sawmills

6 Sawmills

Agriculture

Not Yet Available

Food Processing

2 Bakery

2 Dairy

Stone, Clay, Glass & Cement

1 Concrete Products

1 Pipestone

Other Industries

1 Sheet Metal

6 Printing & Publishing

2 Machinery Companies

1 Pulp and Paper

6 Mining Companies

3 Sanitation

1 Cabinet Maker

Construction & Contracting

9 Construction

5 Electric Contractors

1 Explosives

Transportation & Warehousing

- 3 Bus Depot
- 1 Airport
- 2 Airlines
- 1 Moving and Storage

Lumber, Building Materials, and Hardware

- 3 Hardware
- 7 Lumber
- 2 Plumbing

Auto and Truck Sales and Machinery and Equipment Sales

- 6 Auto Sales
- 1 Snowmobile

Gas and Service Stations

- 25 Gasoline Stations

Auto and Machine Repairs and Service

- 4 Road Service (AAA) and Wrecker Service
- 5 Auto Parts
- 13 Auto Repair and Paint

Grocery, Drug, & Sundry

- 12 Grocery Stores
- 6 Drug Stores

Dry Goods, Furniture and other Household Goods (NEC)

- 16 General Stores
- 5 Electric
- 2 Shoe Sales
- 5 TV Sales and Service, Stereo
- 2 Furniture
- 3 Upholstery
- 7 Clothing Sales

Food and Beverage

- 2 Restaurants
- 7 Taverns & Bars
- 7 Liquor Stores
- 2 Beverage

Other Retail (NEC)

- 4 Florists
- 3 Trailer Courts
- 6 Gift Variety
- 1 Book Store
- 1 Fuller Brush
- 1 Candy Sales
- 1 Decorative
- 1 Jeweler
- 1 Ceramics

Professional Services

- 5 Clinics
- 3 Hospitals
- 1 Accountant
- 1 Management Services
- 10 Dentists
- 17 Doctors
- 2 Vets
- 3 Chiropractors
- 7 Attorneys
- 11 Funeral Homes
- 1 Surveyor

Skilled and Semi-skilled Trade & Services

- 8 Beauty Shops
- 4 Art & Camera, Print, Photo
- 1 Furnace Repair
- 4 Cleaners and Laudromats
- 1 Well & Pump Service
- 1 Barber Shop
- 1 Piano Service

Finance, Real Estate, & Insurance

- 13 Insurance
- 8 Real Estate
- 5 Credit Union
- 5 Banks
- 2 H. & R Block

Hotel, Motel, and Commercial Rental

- 9 Motels
- 1 Apts.
- 1 Hotel
- 8 Lodges

- 1 Electric Utilities

Communications

- 1 Station
- 3 Cable

Wholesale and Distribution

- 13 Bulk Gas & Oil
- 1 Natural Gas

Resorts & Outfitters

- 34 Resorts
- 15 Outfitters

Recreation and Entertainment

- 2 Golf Courses
- 7 Bait and Tackle
- 4 Bowling
- 2 Theatre
- 1 Bike Shop
- 1 Amusement Center
- 5 Sporting Goods

Education

Not Yet Available

Nonprofit Organizations

- 24 Churches
- 10 Fraternal Groups
- 1 Consumer Service
- 2 Referral Service
- 1 Art Education
- 4 Camps

Sources of Secondary Data

Secondary sources of data of potential value to the study include:

- City and County Data Book
- County Business Patterns
- Minnesota Personal Income Tax Data, Department of Revenue. (Particularly personal income by school district.)
- U.S. Census of Population, Manufacturing, Agriculture, Governments
- Forest Data, including revenue from Sales of stumpage in the Superior National Forest.
- Forest data from Division of Forestry, St. Louis and Lake Countins.
- Household Survey data collected by the Socio-Economic section of E.Q.C.
- Data on wood products consumption from U.S. Forest Service.
- Data on Demand for Forest Products through 1990, U.S. Department of Commerce
- The University of Minneosta MAPS Division will be consulted for the statistics available from its data banks (used in conjunction with the various census publications noted earlier).
- The Minnesota Survey of Lakes, D.N.R. and Superior National Forest supervisor
- Data on employment supplied by the Minnesota Department of Employment Services under contract to E.Q.C. (two digit S.I.C. data).
- Minnesota Arrowhead Association data, as available, on resorts in the Arrowhead Region.
- Arrowhead Regional Development Commission, data for studies publically available.
- Northeastern Minnesota Development Association for any data available to the public on recreation and forestry.
- Lake States Forest Experiment Station publications.

- U.S. Department of Commerce, Revenue Sharing data. (This data is as yet unpublished and is not currently available. However, it is believed this data will be available sometime in the summer of 1977.)
- Taconite employee commuting study, E.Q.C.
- Ronald B. Hayes, Environmental Economic and Social Impacts of Mining Copper Nickel in Northeastern Minnesota, published 1974, 150 pages.
- U.S. Bureau of Mines--data on copper mining production and prices as available.
- Minnesota Department of Transportation travel density counts along various highways in the study area.
- Minnesota Department of Natural Resources special studies of Forestry made since 1970 including census of sawmills and harvesters, and the most recent survey of the Department.
- C.H. Meyers and others, Bureau of Business and Economic Research, U.M.D. special study of value added by primary forest production in the Arrowhead Region. (It is expected this study will be published in late summer 1977).
- Minnesota Department of Economic Development for any forestry demand and supply information they may have available.
- Data sources in the library of Socio-Economic section of the Copper-Nickel group will be researched.
- University of Minnesota Land Management Studies and systems

APPENDIX

EXHIBIT C

Date: _____ Hour: _____ Location: _____
 Vehicle: _____ Equip: _____ I. D. _____
 Gallons purchased: _____ Composition: _____

This study is conducted by the University of Minnesota, in cooperation with the Minnesota Department of Economic Development, local businesses and Chambers of Commerce, and the United States Travel Service. The information will help in serving you and other travelers. We do not need your name. All information about you will be confidential.

1. How many times during this trip will a member of your travel group have been in an auto or truck at gas pumps in the Twin Cities Area? (see map) _____ number (count this time)
2. What is your home zip code or location? _____ zip code or city and country
3. How many in your travel group are 16 years of age or older? _____ Number (count yourself)
 Under 16 years of age? _____ number
4. On this trip away from home, how many nights will you be gone? _____ number of nights "x" here if not overnight
5. Is any vacation time used for this trip? _____ yes _____ no
6. What was (or is) your major destination? If more than one, give point farthest from home. _____ city _____ state, province or country

PLEASE TELL US ABOUT YOUR STOP IN MINNEAPOLIS - ST. PAUL AND THE OVERALL METROPOLITAN AREA (see map)

7. How many nights were (or will you be) in the Minneapolis-St. Paul area on this trip? _____ nights or "x" here if not overnight
8. If you stayed (or will stay) overnight, please give the type and location of overnight lodging in the Twin Cities Area. If more than one type of lodging, give number of nights of each. See map for names of locations.

	<u>Nights</u>	<u>Location</u>
With friends or relatives	_____	_____
Second home	_____	_____
Hotel, motel, resort	_____	_____
Camping	_____	_____
Other	_____	_____

9. What was your major purpose for stopping in the Twin Cities Area? If you have more than one major purpose, please use numbers to rate their importance: put a "1" beside your most important purpose, a "2" by the next most important, and so on.

- Trucking (pickup or delivery)
- Commuting to work here
- Other work or business to earn a living
- Attend convention or conference
- Shopping
- Recreation, entertainment, sightseeing
- Visit friends or relatives (anniversaries, weddings, funerals, etc.)
- Personal or family concerns (school, medical, religious, etc.)
- Overnight lodging
- Eat or drink
- Auto or truck service
- To catch or help someone else catch a plane, train or bus;
How many will catch the plane, train or bus? _____
number
- Other

10. Please check any of the following that were (or are expected to be) important for this trip to the Twin Cities Area. (If more than one, use numbers to rate the importance; 1=most important, 2=next most important, etc.)

- Wholesale or retail business (does not include shopping)
- Manufacturing or processing business
- Financial, investment, or insurance agency
- Governmental officials or agencies
- Doctor or dentist
- School, educational service or institution
- Lawyer
- Religious organization (excludes attendance at services)
- Technical or business service not shown above
- None of the above

11. Which of the following recreational, cultural or leisure activities did you or your group do (or expect to do) in the Twin Cities Area? (X as many as may apply)

- Visit friends or relatives
- Visit a museum, or attend an art show, lecture or a music or theater performance. Please name: _____
- Go sightseeing or take a tour or excursion
- Attend a ball game or other sports event. Please check: Professional _____ college _____ high school _____
- Go to a night club or supper club, dining or dancing
- Go to a special public event, celebration or observance
Please name: _____
- Amusement park or zoo
- Bowling lanes or movie
- Play golf, tennis, etc.
- Water sports - fishing, boating, swimming, etc.
- Winter sports - skiing, snowmobiling, skating, etc.
- Go to public park or picnic area
- Other, please name: _____
- None of the above

12. Please double check (XX) one of the activities listed in question 11 that was, or is expected to be, the most satisfying.

13. Please list your group's total expenditures for the last 24 hours in the Twin Cities Area. Include payments made by personal or company credit card. If you have been here less than 24 hours, please estimate what you will spend for your first 24 hours here. If you are staying here less than 24 hours, please list what you will spend for your entire stay.

Lodging: \$ _____
Food & Beverage: \$ _____
Transportation/Travel: \$ _____
(Include present purchase of gas, etc.)
Shopping purchases: \$ _____
Entertainment & Recreation: \$ _____
Other Expenditures: \$ _____
TOTAL EXPENSES: \$ _____

14. Have you ever visited the Twin Cities before? yes no

If yes, about how many times have you visited here in the past five years? _____ number

15. Did you get information to help plan this trip to the Twin Cities, either before coming or while here? (brochures, maps, schedules, advice) _____ yes _____ no

If yes, please show where you got the information:

- _____ Newspaper or magazine articles
- _____ Chamber of Commerce or tourist service
- _____ Hotel or Motel
- _____ AAA, other Motor Club or travel agency
- _____ Tourist Information Center or Booth
- _____ From friends
- _____ Other, please name: _____

16. Was your stop in the Twin Cities a major reason for this trip away from home? _____ yes _____ no

17. On this trip, have you or will you stop in the state of Minnesota outside of the Twin Cities Area?

Yes _____; If yes, please continue below with question 18.

No _____; If no, please turn to page 5, question 20.

18. Total time spent (or to be spent) at stops in Minnesota outside the Twin Cities _____ or, if less than 24 hours "x" here: _____.
(days)

19. What is or was the major purpose(s) of your stop(s) in Minnesota outside of the Twin Cities Area? (If more than one, show importance by number; 1=most important, 2=next most important, etc.)

- _____ Trucking (pickup or delivery)
- _____ Other work or business to earn a living
- _____ Attend a convention or conference
- _____ Visit friends or relatives (anniversaries, weddings, funerals, etc.)
- _____ Entertainment (see a game, theater, supper club, etc.)
- _____ Sightseeing
- _____ Outdoor recreation (golfing, fishing, camping, skiing, etc.)
- _____ Personal or family concerns (school, medical, religious, etc.)
- _____ Food, lodging, or automobile services
- _____ Shopping
- _____ Other

20. On this trip away from home, do you (or did you) have important destinations outside the state of Minnesota?

Yes _____; If yes, please continue below with question 21.

No. _____; If no, please go to question 22.

21. What is the major overall purpose of this trip away from home? (If more than one show importance by numbers; 1=most important, 2=next most important, etc.)

- _____ Trucking (pickup or delivery)
- _____ Other work or business to earn a living
- _____ Attend a convention or conference
- _____ Visit friends or relatives (anniversaries, weddings, funerals, etc.)
- _____ Entertainment (see a game, theater, supper club, etc.)
- _____ Sightseeing or driving for pleasure
- _____ Outdoor recreation (golfing, fishing, camping, skiing, etc.)
- _____ Personal or family concerns (school, medical, religious, etc.)
- _____ Shopping
- _____ Other

PLEASE TELL US ABOUT YOURSELF AND YOUR FAMILY

22. What kind of work does the head of your household do? _____

What are his or her most important activities or duties? _____

23. Please check your total yearly family income:

- _____ Under \$1,000
- _____ \$1,000 and under \$5,000
- _____ \$5,000 and under \$10,000
- _____ \$10,000 and under \$15,000
- _____ \$15,000 and under \$25,000
- _____ \$25,000 and under \$35,000
- _____ \$35,000 and over

24. Number in your family (living at home)

Age 16 and over _____ Under 16 _____
number number

25. Please circle the years of formal education completed by the head of your household.

8 or less 9 10 11 12 13 14 15 16 17 or more

26. PLEASE RECORD THE GALLONS OF YOUR PRESENT _____
FUEL PURCHASE Gallons

Thank you, your cooperation will assist Twin Cities agencies and businessmen in serving you, the Traveler!

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FOOTNOTES

1. Jay M. Hughs, "Forestry in Itasca County's Economy: An Input-Output Analysis.
2. Richard Lichty and W. Fleischman, "Transient Housing Study," sponsored by the Center for Urban and Regional Affairs, University of Minnesota.
3. Richard Lichty, "Senior Citizens' Housing Study," sponsored by the Planning Department, City of Duluth and the Housing and Redevelopment Authority, Duluth.
4. On a recent trip to Washington, D. C., members of the research team found that Department of Commerce, Department of Agriculture and Bureau of Mines information is rarely summarized at the sub-county level and that such information can be obtained, if at all, only at great expense.