# MINNESOTA IN EIGHTIES

This document is made available electronically by the Minnesota Legislative Reference Library as part of an ongoing digital archiving project. http://www.leg.state.mn.us/lrl/lrl.asp

#### Minnesota In The Eighties. . . Its People And Its Land

A report in conjunction with Minnesota Horizons 1983

1.2.2

1428

Prepared by Division of Planning Department of Energy, Planning, and Development

#### FOREWORD

This report has been prepared in conjunction with Minnesota Horizons 1983. Horizons is a presentation to provide the legislature with an opportunity to examine the economic and social changes as we move into the 1980s.

"Minnesota In The Eighties, Its People And Its Land" is a series of "fact sheets" that exhibit the state's human, natural, and physical resources. It contains annotated maps, graphs, and charts that describe the condition of the state's resources in the 1970s which are the basis for projections into the 1980s. The topics include current demographic profiles, the natural resource economic base, and the condition of the urban infrastructure. This overview attempts to quantify those trends that are revealed by current events and to form the basis for policy decisions that will set the course for the future.

This report was prepared by the Division of Planning, Department of Energy, Planning, and Development. In addition to the data provided by the Minnesota State Agencies, a considerable amount of data was provided by the 1980 Census of Population, U.S. Bureau of the Census and the Land Use Change Project funded by the Legislative Commission on Minnesota Resources (LCMR). Graphics were produced at the University of Minnesota Computer Center, Professional Services Division and Graphic Group facility.

# CONTENTS

#### Minnesota In The Eighties

#### Its People

#### Its Land

-

| Population Change       | 1  |
|-------------------------|----|
| Age of the Population   | 5  |
| Social Change           | 8  |
| Labor Force             | 10 |
| Employment And Industry | 13 |
| Income                  | 15 |

| Minnesota's Resource Regions | • |   |   | • | 19 |
|------------------------------|---|---|---|---|----|
| Agriculture                  |   |   | • |   | 20 |
| Forestry                     |   |   | - | • | 25 |
| Minerals                     |   |   |   |   | 30 |
| Recreation / Tourism         |   |   |   |   | 34 |
| Urban Infrastructure         | • | , | • |   | 38 |

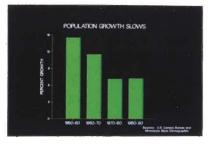
# MINNESOTA IN THE EIGHTIES .



### POPULATION CHANGE



Population growth has slowed but is more widely distributed through the state with fewer counties experiencing loss. Suburbs continue to grow while rural areas grow more rapidly.

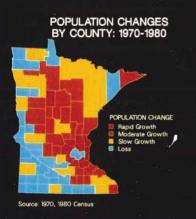


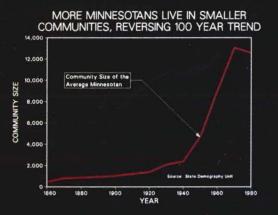
#### POPULATION CHANGE

Suburbs and lake areas experience the greatest growth in the 1970s.

#### COMMUNITY SIZE

More Minnesotans live in smaller communities reversing a 100-year trend.





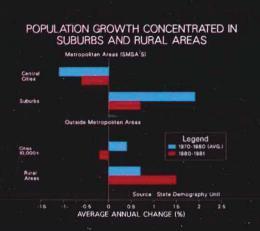
#### RECENT GROWTH

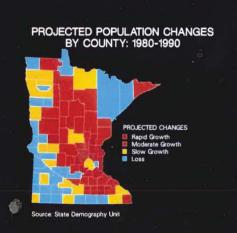
Population growth is concentrated in suburbs and rural areas.

#### **PROJECTED GROWTH**

1

Newer suburbs and exurbs will experience strong growth in the 1980s.





#### POPULATION CHANGE

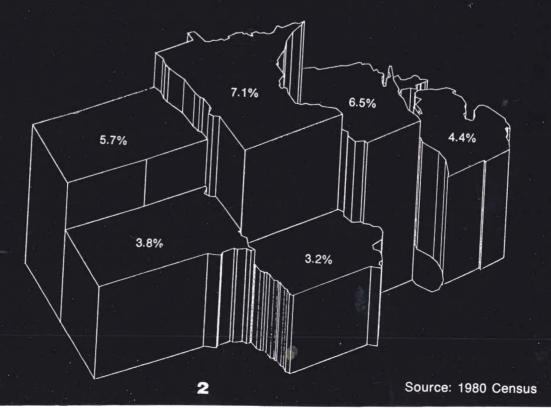
#### POPULATION DENSITY POPULATION PER SQUARE KILOMETER

The most densely settled area is in the Metro Region.

Source: 1980 Census

#### POPULATION CHANGE IN THE UPPER MIDWEST, 1970-1980.

Minnesota leads the Upper Midwest in population growth during the 1970s.

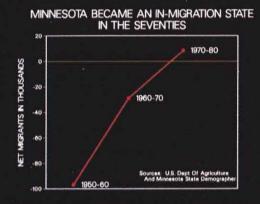


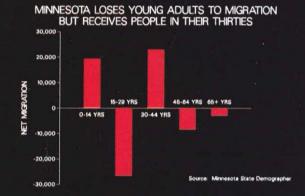
#### MIGRATION

Minnesota becomes an in-migration state in the 1970s.

#### **MIGRATION BY AGE**

Minnesota loses young adults but receives people in their thirties.



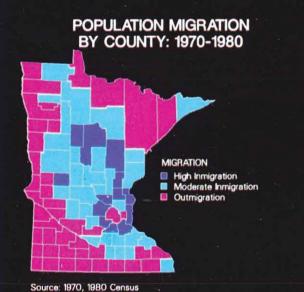


#### **MIGRATION 1970-1980**

Suburbs, exurbs and lakes areas experience strong inmigration.

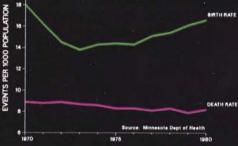
#### BIRTHS AND DEATHS

Birth rate is increasing since its low point in 1973.



18

BIRTH RATE INCREASING SINCE ITS LOW POINT IN 1973



3

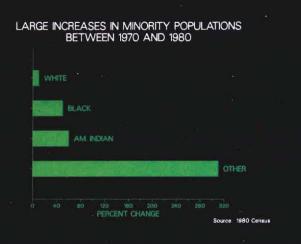
ŧĝ

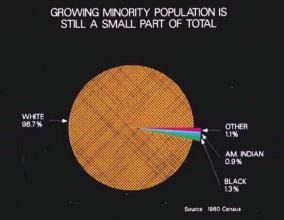
#### GROWTH RATES BY RACE

Large increases in minorities occur between 1970 and 1980.



Minorities are still a small percentage of the population.





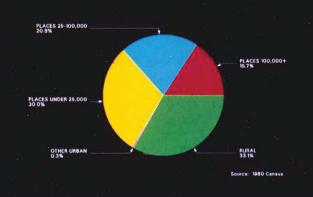
#### POPULATION DISTRIBUTION

One-third of Minnesota still lives in rural areas in 1980.

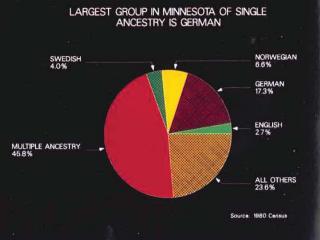


ŝ

German is the largest single ancestry in Minnesota



#### 1980 POPULATION BY SIZE OF PLACE



# AGE OF THE POPULATION



During the 1970s the baby boom reached adulthood creating significant changes in the social and economic characteristics of Minnesota.

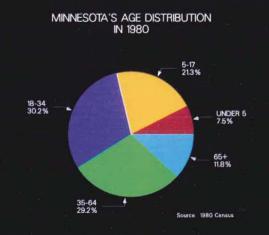


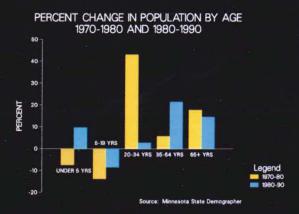
#### AGE DISTRIBUTION

The baby boom includes almost one-third of the total population.

#### CHANGE BY AGE

The 1970s see big increases in young adults, reflecting the baby boom.





#### SOCIAL EFFECTS

In 1980 the baby boom generation is between 20 and 34 years old.

#### CHANGE IN YOUNG ADULTS

Most counties experience rapid increases in young adults during the 1970s.



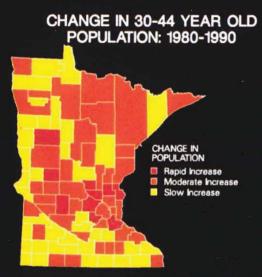
#### AGE OF THE POPULATION

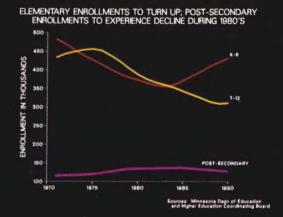
#### PROJECTED BABY BOOM

Most counties will experience large increases in persons 30 to 44 years old during the 1980s.

#### SCHOOL ENROLLMENTS

Grades 1-6 will see increased enrollments while postsecondary begin to see declines.





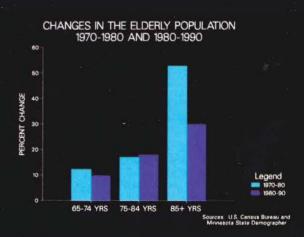
#### Source: State Demography Unit

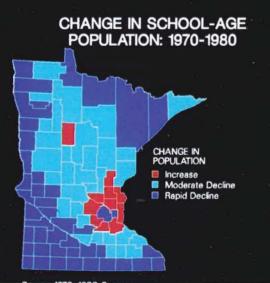
#### SCHOOL AGE POPULATION

Most counties experience substantial declines in school age population during the 1970s.



Biggest changes in older population are among those 85 years and older.



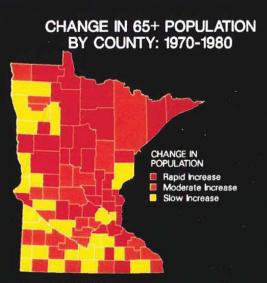


Source: 1970, 1980 Census

6

#### 65 AND OVER

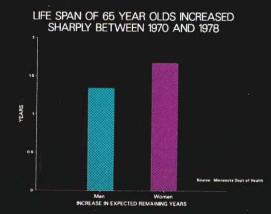
Every county increases in older populations during the 1970s.



Source: 1970, 1980 Census

#### INCREASED LONGEVITY

Life span of persons 65 years old increases sharply during the 1970s.

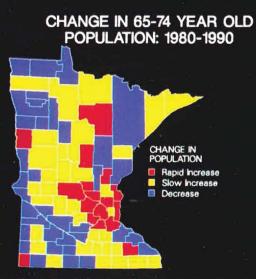


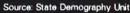
#### PROJECTED 65-74 YEARS OLD

Suburban counties will see the most rapid increases in persons 65-74 years old during the 1980s.



Most counties will see substantial increases in persons 75 and older during the 1980s.







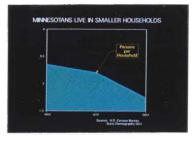
Source: State Demography Unit

欚

# SOCIAL CHANGE



The changing age structure coupled with ongoing social change has had major impacts on family structure.

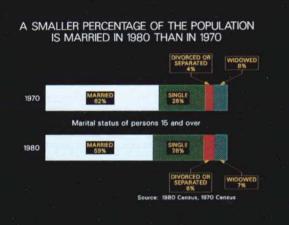


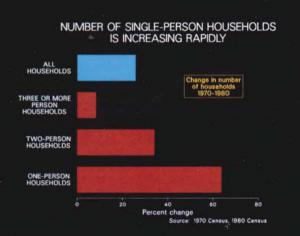
#### MARITAL STATUS

More persons 15 years and older were single or divorced in 1980.

#### SIZE OF HOUSEHOLD

Largest growth occurs in one-person households during the 1970s.





#### TYPE OF FAMILY

An increasing number of families are headed by single parents.

#### FAMILIES WITH CHILDREN

Most children live in married couple families.



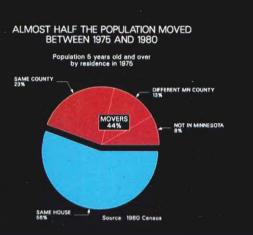
#### SOCIAL CHANGE

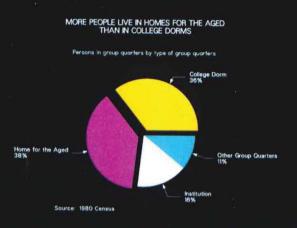
#### **RESIDENCE IN 1975**

44.4% of persons 5 years and older move between 1975 and 1980.

#### **GROUP QUARTERS POPULATION**

More Minnesotans live in homes for the aged than in college dorms in 1980.



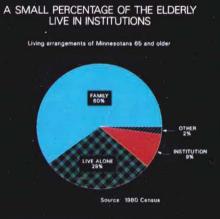


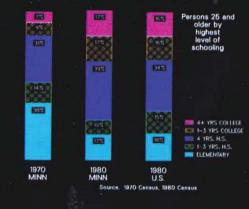
#### ELDERLY LIVING ARRANGEMENTS

A small percentage of the elderly live in institutions.

#### YEARS OF SCHOOLING

Average education of persons 25 years and older increases in the 1970s and remains above the national average.





#### MINNESOTANS ARE INCREASINGLY BETTER EDUCATED

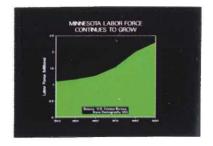
9

ŵ.

# LABOR FORCE



The 1970s saw an unprecedented growth in the labor force as large numbers of the baby boom generation, especially the women, sought employment.

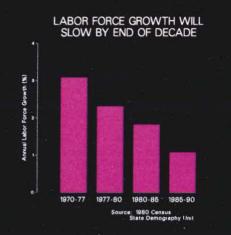


#### LABOR FORCE GROWTH

Average annual labor force growth will slow by the end of the decade.

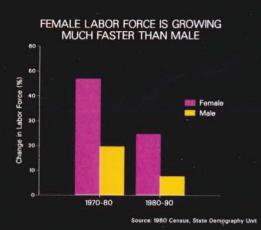
#### PARTICIPATION BY SEX

Female labor force is growing much faster than male.



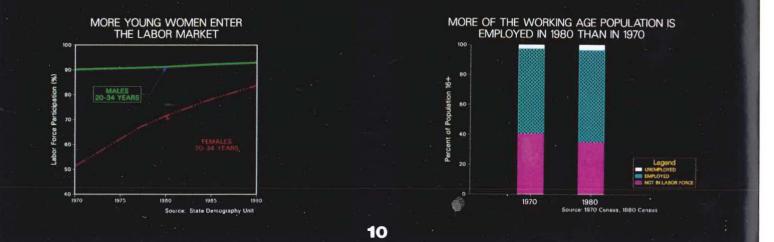
#### LABOR FORCE PARTICIPATION

More young women enter the labor market.



#### LABOR FORCE STATUS

A larger proportion of the population 16 and older is employed in 1980.



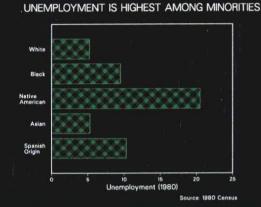
#### LABOR FORCE

# <section-header>

Source: 1980 Census

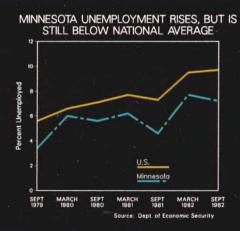
#### UNEMPLOYMENT BY RACE

Unemployment rates in 1980 are highest among minorities.



#### TRENDS IN UNEMPLOYMENT

Unemployment rates have increased in Minnesota but still remain below the national average.



#### SEPTEMBER 1982 UNEMPLOYMENT RATES



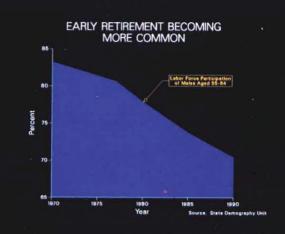
Source: Dept of Economic Security

#### PARTICIPATION OF OLDER MEN

Early retirement is becoming more common.

#### EMPLOYMENT BY OCCUPATION

Most Minnesotans are employed in white collar jobs.



MOST MINNESOTANS EMPLOYED IN WHITE COLLAR JOBS

So

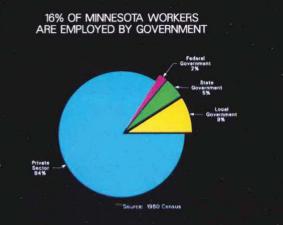
1980 Ce

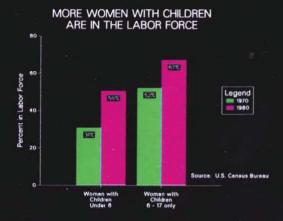
PUBLIC SECTOR EMPLOYMENT

Sixteen percent of Minnesota workers are employed by government.

#### PARTICIPATION OF MOTHERS

More women with children are in the labor force.





12

÷,

# EMPLOYMENT AND INDUSTRY



Minnesota has experienced strong growth in employment and number of businesses. Growth is especially strong in service industries.

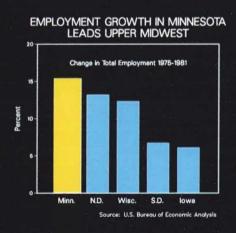


#### EMPLOYMENT GROWTH

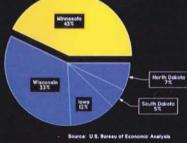
Minnesota leads the upper midwest in employment growth during 1975-1981.

#### JOBS GROWTH 1975-1981

Minnesota accounts for 43% of new jobs in the region.







#### EMPLOYMENT BY INDUSTRY

Patterns of employment by industry show little change between 1970 and 1980.

#### WORK FORCE BY FIRM SIZE

Most Minnesotans are employed by small businesses.



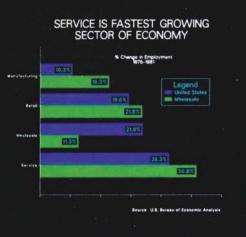
#### EMPLOYMENT AND INDUSTRY

#### EMPLOYMENT GROWTH BY SECTOR

The service industry is fastest growing sector between 1975 and 1981.

#### DISTRIBUTION OF GROWTH

Most areas of Minnesota experience rapid growth in employment during the 1970s.



# INCREASES IN NUMBER OF PEOPLE EMPLOYED: 1970-1980

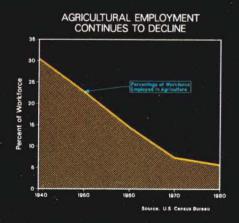
Source: 1970, 1980 Census

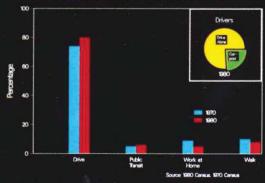
#### EMPLOYMENT IN AGRICULTURE

Agricultural employment continues to decline as a proportion of the total workforce.

#### COMMUTING TO WORK

More people drive to work than in 1970.







14

### INCOME



Though money income increases substantially, real income, after adjusting for inflation, rises more slowly. Poverty rates fall but certain segments of the population continue to experience high rates.

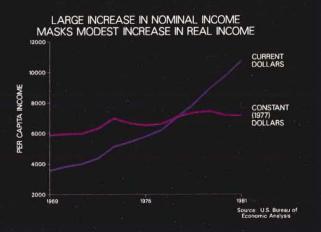


#### CHANGE IN INCOME

A large increase in nominal income masks a modest increase in real income.

#### SOURCE OF INCOME

More than three-quarters of household income comes from wages and salaries in 1980.





SELF-EMPLOYMENT

ifarm F-Employment

INTEREST, DIVIDENDS & OTHER SOURCES 9.4 %

Social Security & Public Assistance

Source 1980 Census

15

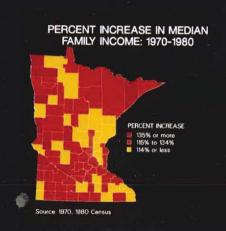
FAMILY INCOME BY RACE

Minority families are more concentrated in lower incomes in 1980.

#### CHANGE IN FAMILY INCOME

Most rapid growth in median family income, 1970-1980, occurs in selected western counties.





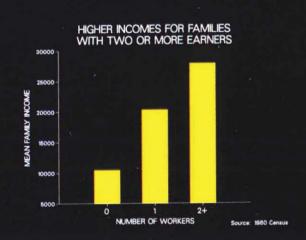
#### INCOME

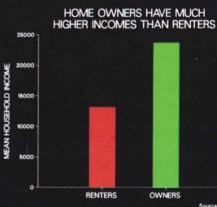
#### INCOME BY FAMILY SIZE

Families with two or more earners have higher incomes.

#### INCOME AND HOUSING

Homeowners have much higher incomes than renters.





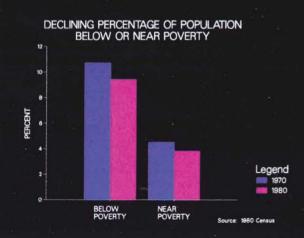
#### Source 1980 Census

#### **POVERTY RATES**

The poverty rate and the near poverty rate (125% of poverty) falls during the 1970s.

#### CHANGES IN POVERTY

Most counties experience a decline in poverty rates during the 1970s.



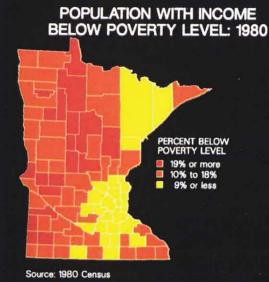


Source: 1970, 1980 Census

#### INCOME

POVERTY IN 1980

still experience high poverty rates.

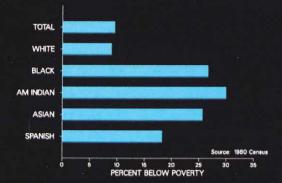


Some counties in the north central and the southwest

#### POVERTY BY RACE

Poverty rates are still much higher for minorities.

#### MUCH HIGHER POVERTY RATES FOR MINORITIES

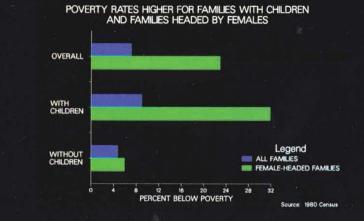


#### **ELDERLY POVERTY**

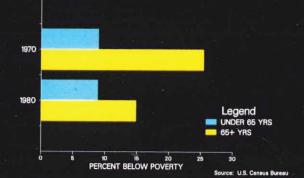
Poverty rate remains higher for the elderly.

#### **POVERTY AND FAMILIES**

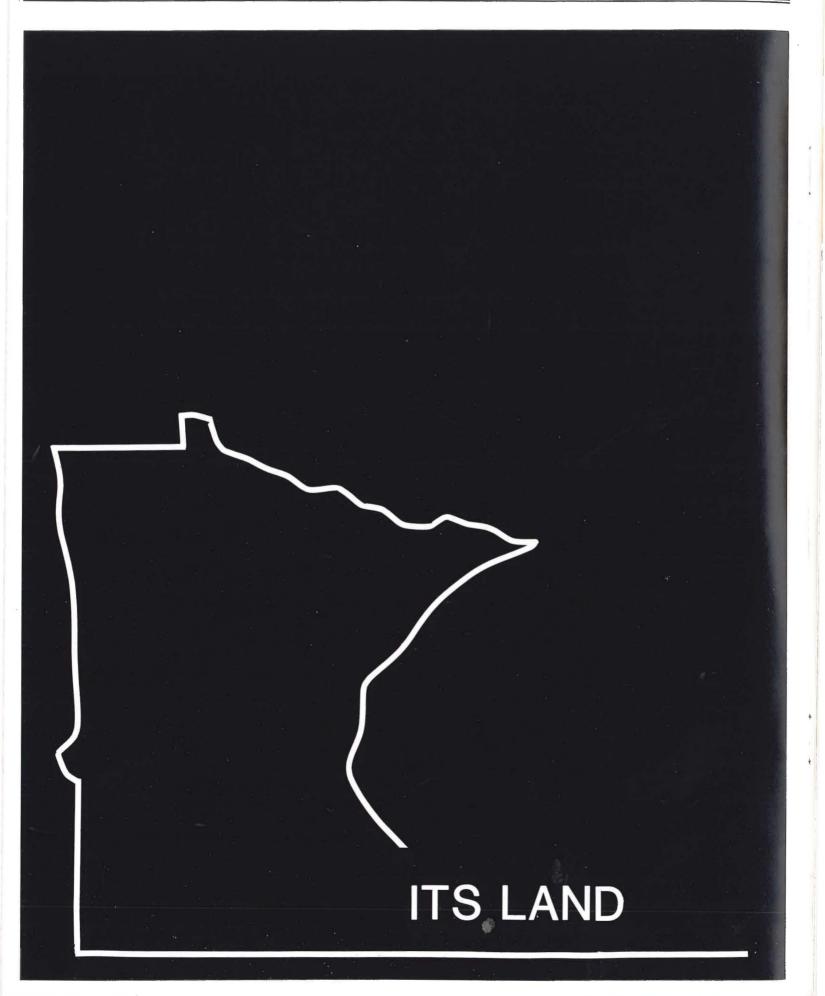
Poverty rates are higher for families with children and families headed by females.



#### HIGHER POVERTY RATE FOR ELDERLY PERSONS



# MINNESOTA IN THE EIGHTIES . .

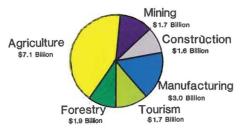


# MINNESOTA'S RESOURCE ZONES

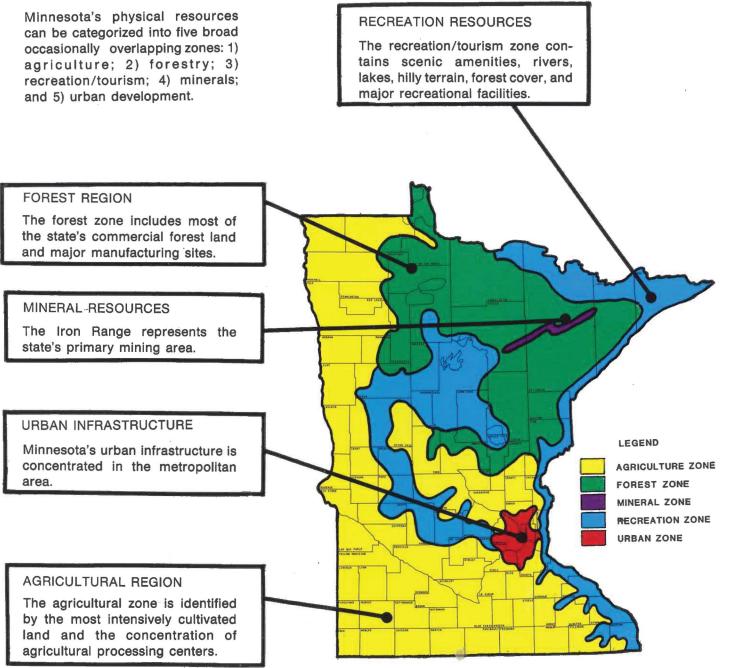


Minnesota's physical resources are the foundation of the state's economic wealth and opportunity. The changing use, development, and management of these resources will guide Minnesota's future. Important decisions will be made in the eighties regarding the allocation of land and investment of funds.

#### ECONOMIC CONTRIBUTIONS

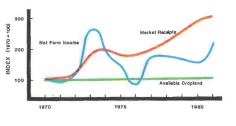


#### MINNESOTA'S RESOURCE ZONES





In 1980, agriculture generated \$7.1 billion for the state economy. Farmers experienced record production expenses, low crop prices, and reduced farm income. Minnesota ranks 5th in the nation in both farm income and agricultural exports. **RESOURCE TRENDS** 



#### MINNESOTA'S AGRICULTURAL RESOURCES

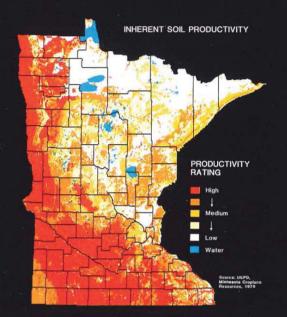
The agricultural region has three DAIRY REGION sub-zones of specialized production. The dairy region consists of less intensively cultivated, rolling terrain with more pastureland. A mix of dairy cows, beef cattle, poultry and interspersed cash crops characterize this area. SMALL-GRAIN REGION The small-grain and cash crop subzone has flat rich prairie soil, but variable moisture and a shorter growing season. Major crops include wheat, barley, sunflowers, potatoes, and sugarbeets. LEGEND CORN BELT Corn Belt The corn belt is dominated by corn, Small Grain Region soybean and hog production. It is marked by rich prairie soils, ade-Dairy Belt quate moisture, and the state's Dairy Processing longest growing season and highest ag land values. Grain/Food Processing

#### INHERENT SOIL PRODUCTIVITY

Soil productivity is the key to the agricultural zone.

#### LAND IN FARMS

Counties in the ag zone have a higher percent of their land in farms.



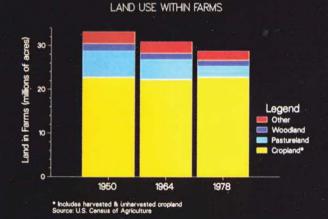
# LAND IN FARMS, 1978

#### CHANGE IN FARMLAND

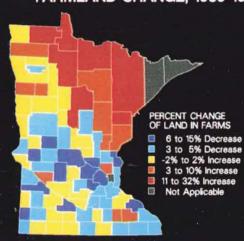
Land in farm units is being gained in marginal areas and lost in counties with more productive soils.

#### COMPOSITION OF LAND IN FARMS

The amount of land in farm units has declined, but the cropland base has remained stable.



#### FARMLAND CHANGE, 1969-1978



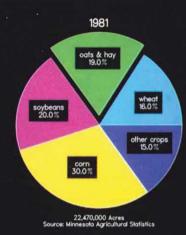
Source: U.S. Census of Agriculture

21

#### HARVESTED CROPLAND

Minnesota's harvested cropland expanded by nearly 5 million acres in 10 years. Increases were in major cash crops. Oats and hay declined as a percentage of harvested cropland.



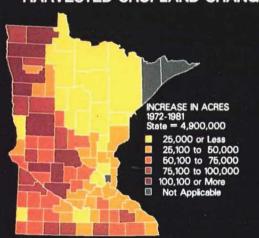


#### CHANGE IN HARVESTED CROPLAND

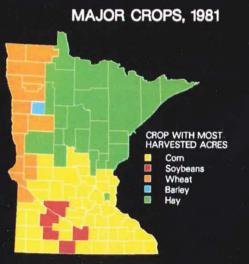
Increased cultivation was concentrated in areas of highly productive soils, further intensifying dominantly cultivated areas.

#### **MAJOR CROPS**

Corn and soybeans are the major cash crops where soil productivity and climate permit; wheat is prevalent where climate imposes limitations.



Source: MN Agricultural Statistics



Source: MN Agricultural Statistics

1

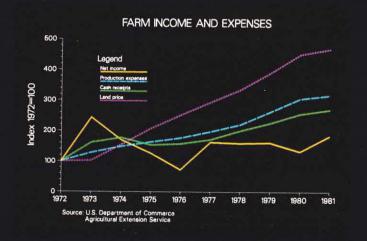
HARVESTED CROPLAND CHANGE

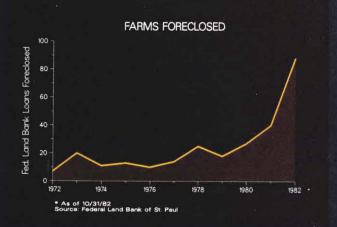
#### FARM INCOME AND EXPENSES

Farm cash receipts have not kept pace with expenses, thereby limiting farm income.

#### FARM LOAN FORECLOSURES

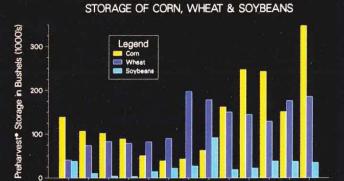
Rising farm debts combined with high interest rates and other farm management factors have recently forced higher numbers of loan foreclosures.





#### **GRAIN STORAGE**

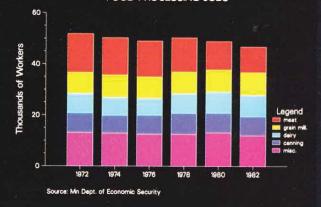
Increased crop production and lower prices have resulted in record amounts of stored grain and lower farm income in 1982.



Corn-Oct. 1; Wheat-June 1:Soybeans-Sept. 1.
 Source: Minnesota Agricultural Statistics

#### JOBS IN FOOD PROCESSING

Employment in food processing has declined primarily in meat production industries.



FOOD PROCESSING JOBS

23

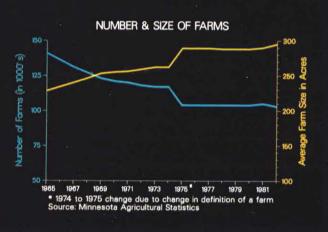
....economic indicators

#### FARM STRUCTURE

Farms have become larger in size and fewer in number.

#### **GREEN ACRES**

Enrollment in the Green Acres program is concentrated around the Twin Cities metropolitan area.

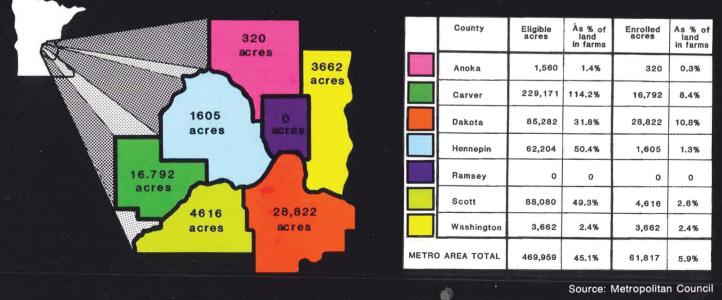




Sources: County Assessors, MN Dept. of Revenue

#### METROPOLITAN AGRICULTURAL PRESERVES, 1982

Almost half of the farmland in the metro area is eligible, but farmers enrolled less than 6 percent during the first year of the program.

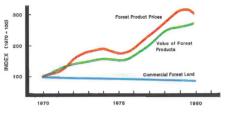


#### PROGRAM PARTICIPATION BY COUNTY

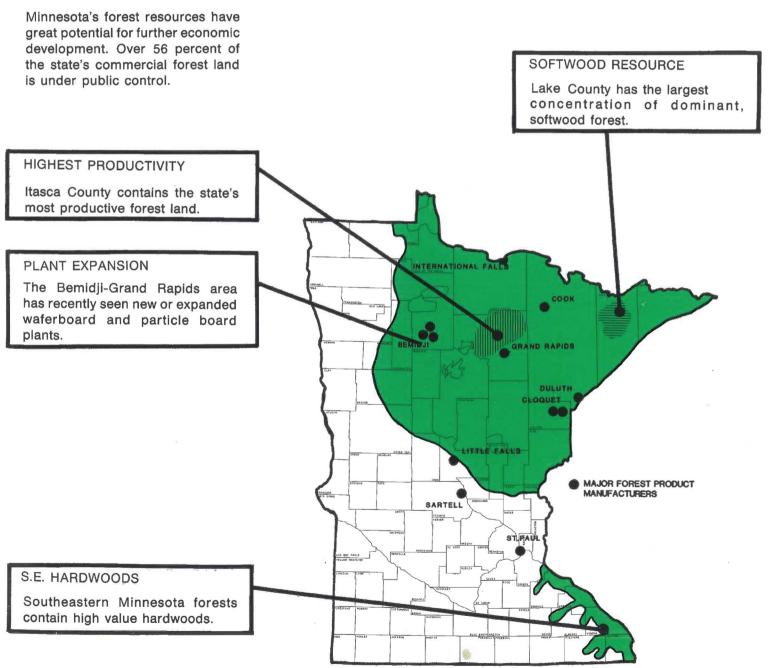


In 1980, forest resources account for nearly \$1 billion in primary production and another billion in secondary manufacturing. The forest industry represents an opportunity for improved investment and economic growth, especially with improvement in the national economy.

RESOURCE TRENDS



#### MINNESOTA'S FOREST RESOURCES



#### TIMBER RESOURCE LOCATION

The state's forest resource is concentrated in 11 northeastern counties.

#### FOREST LAND OWNERSHIP

Over half of Minnesota's commercial forest land is publicly owned.

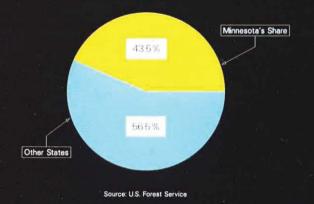


#### LOCAL GOVERNMENT FOREST LAND

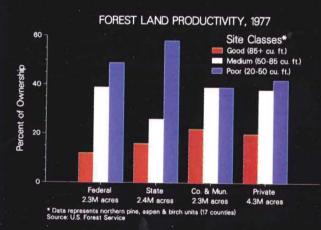
Minnesota local units of government manage 44 percent of the U.S.'s locally owned forest land base.

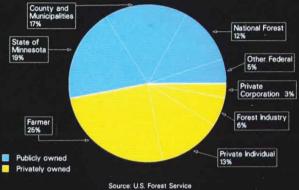
#### FOREST LAND PRODUCTIVITY

Local units of government and private land owners have a larger share of forest land in the most productive site class.



COUNTY AND MUNICIPAL FOREST LAND OWNERSHIP





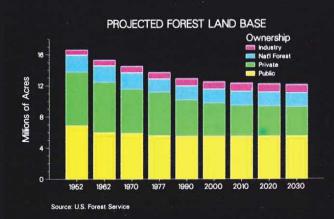
FOREST LAND OWNERSHIP, 1977

26

ŵ

#### COMMERCIAL FOREST LAND AREA

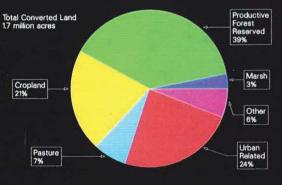
The state's commercial forest base has steadily declined over the last 30 years. Privately owned land will decline in the future.



#### CHANGE IN CFL AREA

A variety of factors have contributed to the decline of the state's commercial forest land.

COMMERCIAL FOREST LAND CONVERSION, 1962-1977



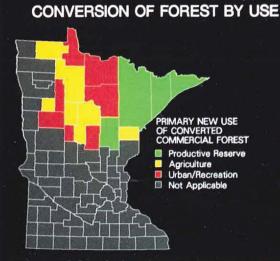
Source: U.S. Forest Service

#### CONVERSION OF CFL, 1962-1977

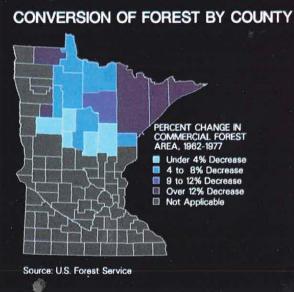
Expanding agriculture is the major factor converting forest land in the western counties and reserved forest in the northeast.

#### CONVERSION OF CFL BY COUNTY

The rate of forest land conversion varies by location.



Source: U.S. Forest Service

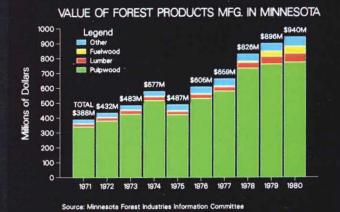


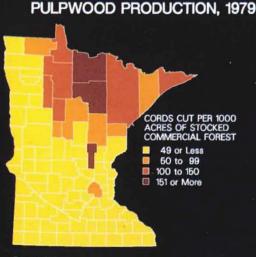
#### VALUE OF FOREST PRODUCTS

The total value of forest products harvested in Minnesota has steadily increased.

#### PULPWOOD PRODUCTION

Major pulpwood producing counties are located in the northern half of the forest zone.





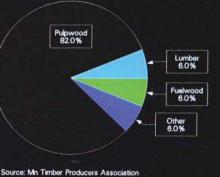
Source: U.S. Forest Service

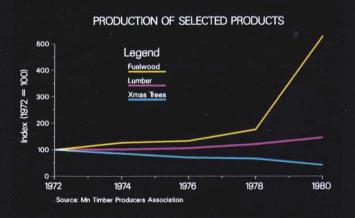
#### MAJOR FOREST PRODUCTS

Pulpwood is the major forest product accounting for 82% of the total value in 1980.

#### PRODUCTION OF FOREST PRODUCTS

Over the last 10 years, fuelwood production increased sharply, while the production of Christmas trees declined.





#### DISTRIBUTION OF FOREST PRODUCT VALUE, 1980

28

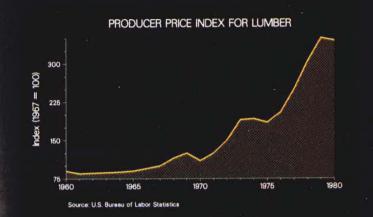
ŵ

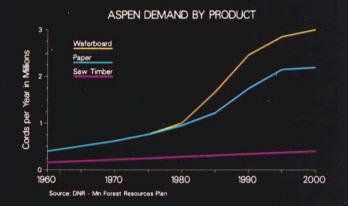
#### FOREST PRODUCT PRICES

The cost of producing forest products rose dramatically during the 70's.

#### ASPEN DEMAND BY USE

Demand for aspen is expected to increase because of new waferboard plant expansion and other uses.



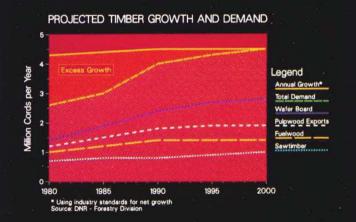


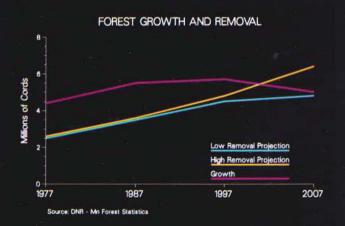
#### FOREST RESOURCE DEMAND

The demand for timber resources is anticipated to be close to annual growth around the year 2000.

#### FOREST GROWTH AND REMOVALS

Removal of forest resources is expected to approach annual growth around 2010.

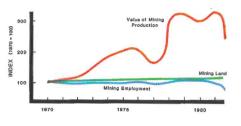




# MINERALS



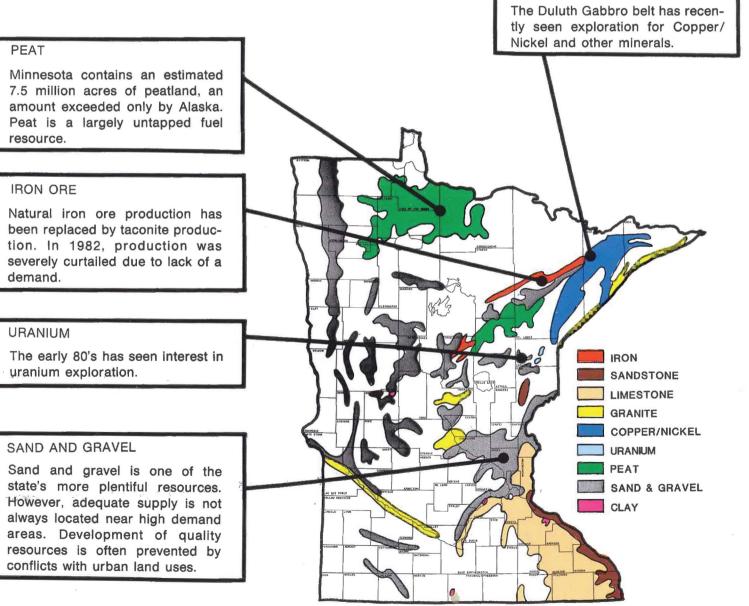
In 1979, Minnesota's mining activities represented a 2 billion dollar industry. The current economic recession has reduced production and employment due to the weak demand for steel and the slumping housing market and construction industry. RESOURCE TRENDS



COPPER-NICKEL

#### MINNESOTA'S MINERAL RESOURCES

Minnesota has a variety of minerals that represent an opportunity for development.

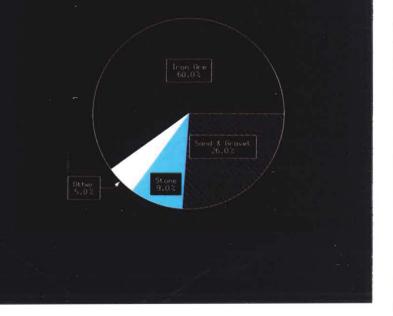


#### MINERALS

#### MINING SITES AND PROSPECTS

| Mineral<br>Commodity                                | Acres*                            |
|---|-----------------------------------|
| Iron  | 66,880                            |
| Sand and Gravel                                     | 29.160                            |
| Stone   | 10,000                            |
| Clay  | 1,440                             |
| Manganese   | 1,160                             |
| Peat  | 1,040                             |
| Copper/Nickel                                       | 440                               |
| Uranium   | 400                               |
| Miscellaneous                                       | 1,120                             |
| Total   | 111,640                           |
| Sources: Mineral Industry * Derived from 40-acre co | Location System; MLMIS ell counts |

Iron and sand and gravel mining operations occupy the greatest land area.



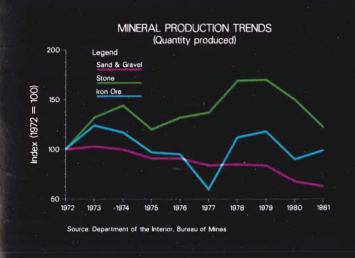
#### . . . . production trends

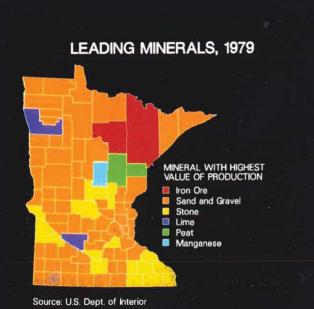
#### QUANTITY OF MINERAL PRODUCTION

Production of the state's leading minerals has shown large fluctuations.

#### LEADING MINERALS

Sand and gravel are the leading minerals in most counties.





## **MINERALS**

## COUNTY MINERAL PRODUCTION

Iron ore producing counties generate most of the state's mineral production dollars. Sand and gravel production is prevalent near large urban areas.

VALUE OF MINERAL PRODUCTION

State

THOUSANDS OF DOLLARS PRODUCTION, 1979 te = 2,067,990

> 200 or Less 201 to 500 501 to 2000

2001 to 100,000

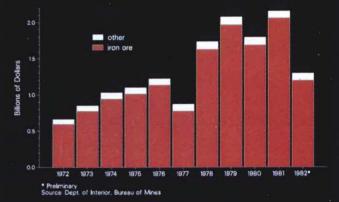
100,001 or More

Data Withheld

## STATE MINERAL PRODUCTION

Decline in total state mineral production has resulted from slumps in iron ore production: shippers strike in 1977; low demand in 1982.

VALUE OF NON-FUEL MINERAL PRODUCTION



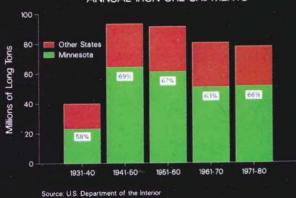
**IRON ORE SHIPMENTS** 

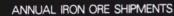
Source: U.S. Dept. of Interior

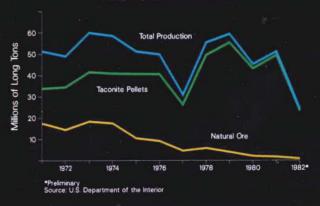
Minnesota's percent of total U.S. iron ore shipments has been consistent. U.S. and Minnesota shipments have declined since World War II.

## **IRON ORE PRODUCTION**

Taconite pellets have replaced natural ore.







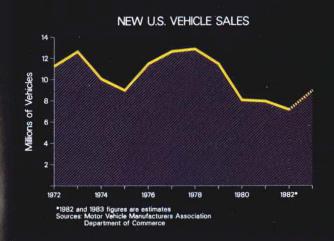
#### **IRON ORE PRODUCTION**

32

Ś

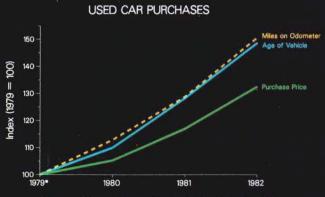
## NEW U.S. VEHICLE SALES

Auto manufacturing is a primary user of steel and Minnesota's iron ore. New vehicle sales have dropped by more than five million units since 1978; a 40% decrease.



## USED CAR PURCHASES

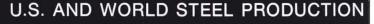
Consumers are purchasing more used autos and operating them longer.



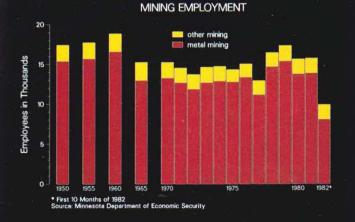
\*Base year 1979 values: Miles = 29,030; Age = 2.86 years; Price = \$3,602 Source: Hertz Corporation

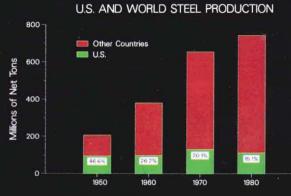
## MINING EMPLOYMENT

Metal mining (iron ore) represents the majority of mining jobs. Unemployment correlates with slumps in production.



World steel production has almost quadrupled since 1950. U.S. iron ore and steel products are facing stiffer foreign competition.





Source: American Iron and Steel Institute

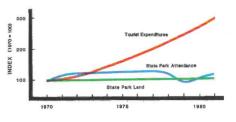
ø

33

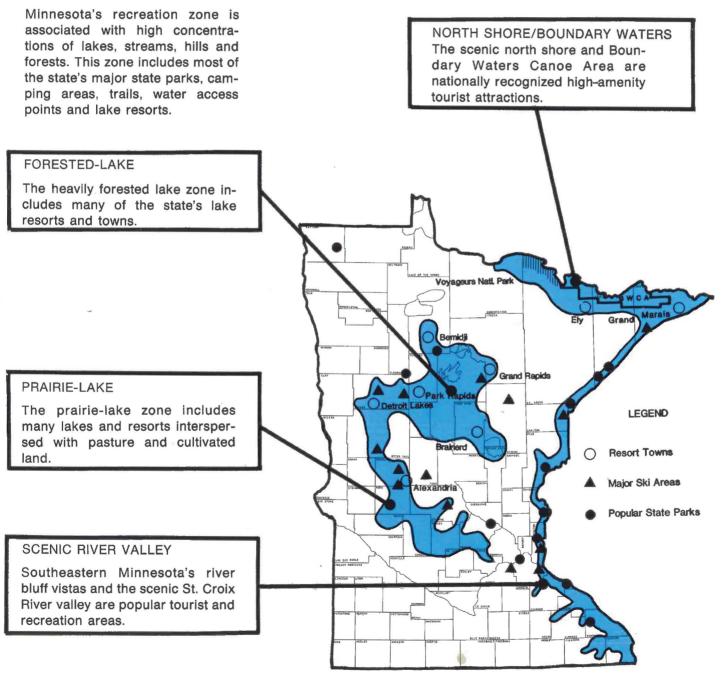
# **RECREATION/TOURISM**



In 1980, tourists spent 2.1 billion dollars in Minnesota, dropping the state in national rank from 11th to 13th. Over six million people visited Minnesota state parks. Travel expenditures for transportation have increased most rapidly. RESOURCE TRENDS



## MINNESOTA'S RECREATIONAL RESOURCES

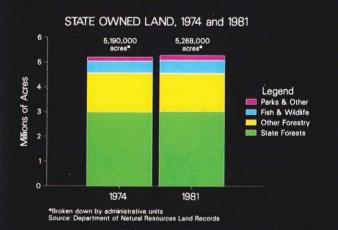


## STATE LAND OWNERSHIP

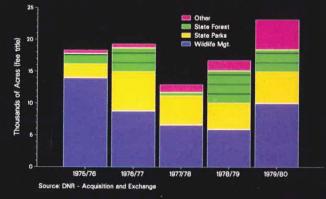
Total land in state ownership has remained constant during the last decade.

## STATE LAND ACQUISITION

The DNR acquired about 100,000 acres since 1975, roughly half for wildlife management.



#### DNR LAND ACQUISITION

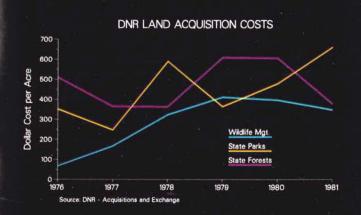


## ACQUISITION COST PER ACRE

Rising rural land values had their greatest impact on wildlife land acquisition, increasing per acre costs fivefold.

## LOCAL PARK APPROPRIATIONS

Federal and state appropriations for local parks have declined sharply since 1978.



FEDERAL/STATE APPROPRIATIONS FOR LOCAL PARKS, 1974-83 12 Legend Outdoor Recreation LCMR - Region Parks 9 LCMR - Local Parks Millions of Dollars Federal LAWCON 6 3 0 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 Allocated in work program, but not appropriated Source: DEPD, Office of Local Government

35

1

# **RECREATION/TOURISM**

## TOURIST TRAVEL EXPENDITURES

Tourist travel expenditures more than doubled since 1971.

## MAJOR TRAVEL EXPENDITURES

The transportation travel expenditure category has increased most rapidly.



MAJOR TRAVEL EXPENDITURES, 1978-1980 1978 Eating & Drinking \$397M 7.3% \$1415M 26.2% 1979 Amusement & Becreation \$500M 9.2% \$303M \$628M 11.6% \$1110M 20.5% 1980 Retail Sales \$1054 Lodaina 1978 - 1980 Total — \$5.4 Billion urce: Mn Department of Economic Development, Research Division

## LOCATION OF TRAVEL EXPENDITURES

About 50% of all tourist travel expenditures are made in the Twin Cities metropolitan area. Rochester and the northern lake-resort counties also have a significant tourism base.

## **REASONS FOR TRAVEL**

Most U.S. travel trips are related to visiting.



Source: DEPD, Office of Tourism



\* U.S. travel characteristics Source: Statistical Abstract of the U.S., 1981

36

đ

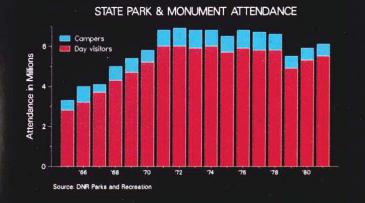
# **RECREATION/TOURISM**

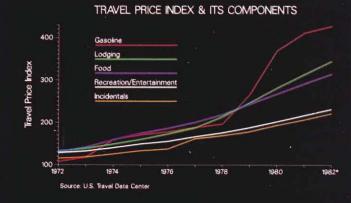
## STATE PARK USE

State park attendance increased rapidly during the late 60's, leveled off and then declined in the late 70's.

## THE COST OF TRAVEL

Higher costs for gasoline resulted in the price index for transportation increasing more rapidly than other factors.



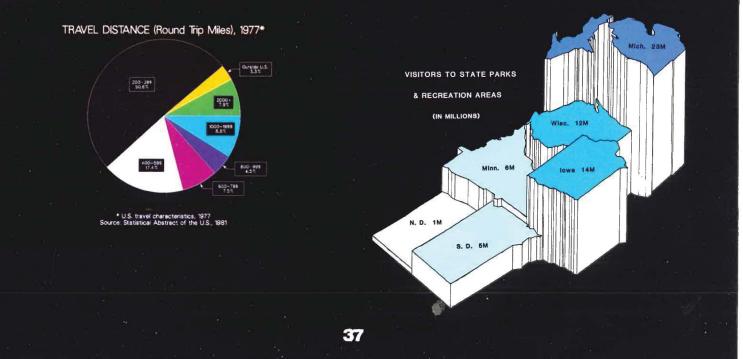


## TRAVEL DISTANCE

Slightly more than two-thirds of U.S. travel trips have a destination within 300 miles.

## COMPARISON OF PARK VISITORS

Minnesota has fewer state park visitors than surrounding states, due primarily to the distance from major urban centers to Minnesota's parks.

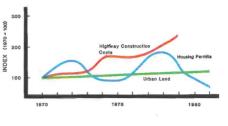


# URBAN INFRASTRUCTURE



Minnesota's urban infrastructure is in need of increased maintenance and rehabilitation. These needs are occurring in a period of declining revenues and shifting financial burdens. The infrastructure's condition is crucial to the state's economic health and expansion.

#### INFRASTRUCTURE TRENDS



## MINNESOTA'S URBAN INFRASTRUCTURE

Urban infrastructure consists of existing public investment in Minnesota communities.

#### DECISIONS

The Legislature will face difficult decisions in allocating scarce dollars to maintain a sound infrastructure to foster economic growth in Minnesota.

#### DEFINITION

Urban infrastructure includes highways, bridges, railroads, airports, public buildings, landfills and sewer and water facilities.

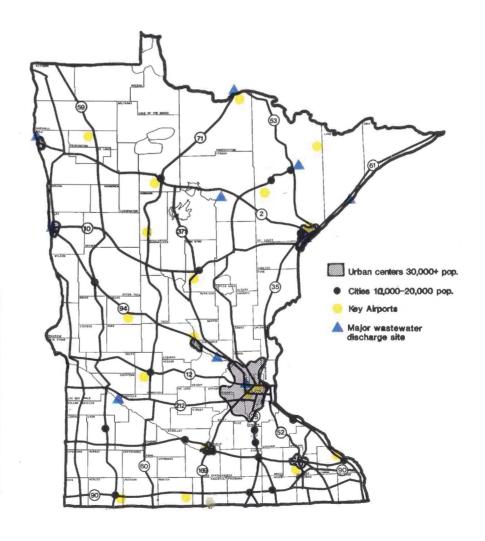
#### FUNCTION -

Infrastructure serves residential, commercial, and industrial activities that make up the heart of our economy.

#### COSTS

The fiscal cost of maintaining, rehabilitating, and replacing aging components of the infrastructure is staggering. For instance, local communities are currently in need of \$1.5 billion for sewer and waste water treatment projects alone.

Increases in new residential construction appear to precede commercial and industrial investment.

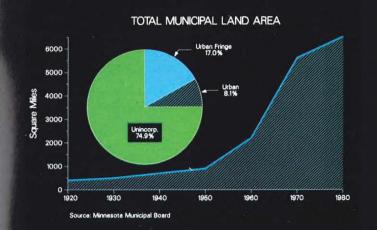


## MUNICIPAL LAND AREA

Minnesota cities began to expand rapidly in the 1950's with the development of the modern auto and improved highways.



Minnesota cities annexed 177,000 acres of land, which represents only 1% of the state's land area.



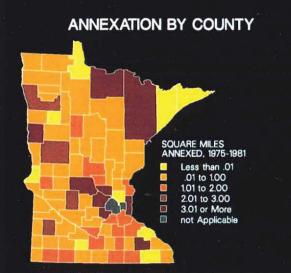
GROWTH IN MUNICIPAL LAND AREA 200 PIE LEGEND 175 0 Incorporated 1856-1975 7.0% 150 125 Square Miles ncorporated 1975-1981 1.1% 100 Unincorporated 75 50 25 975 1976 1977 1978 1979\* 1980 1981 \* 1977 - 75% in Sherburne Co.; 1979 - 95% in St. Louis Co. Source: Minnesota Municipal Board

## LOCATION OF MUNICIPAL ANNEXATION

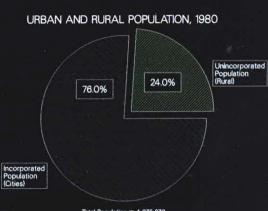
Municipal land annexation has been concentrated near urban areas and major highways.

## INCORPORATED POPULATION

About 3/4 of Minnesota's population lives in cities.



Source: MN Municipal Board



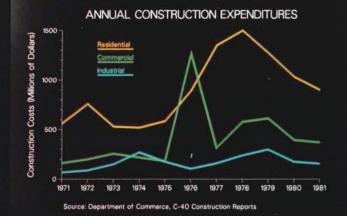
Total Population = 4,075,970 Source: U.S. Census of Population; MLMIS

39

ŵ

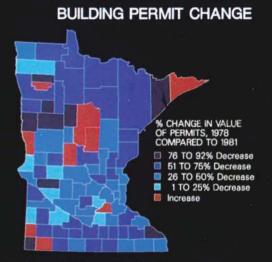
### VALUE OF CONSTRUCTION

The total value of residential, commercial and industrial construction was affected by two major recession periods, 1973-1974 and 1980 to the present.



## CONSTRUCTION DECLINE

High interest rates had a statewide impact on residential, commercial and industrial construction.



Source: C-40 Construction Reports

## HOUSING CONSTRUCTION

Thousands of New Housing Units

20

10

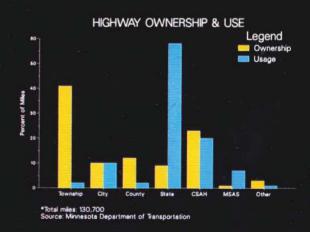
0

Source: U.S. Dept. of Commerce, Bureau of Census Construction Report C-40

Permits for housing fluctuated with recessions. Multifamily apartment units were built in the early 70's, while single-family (1-4 units) were dominant in the later 1970's.



In 1980, state trunk highways accounted for only 9% of Minnesota's roads but 58% of the total miles driven.





1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981

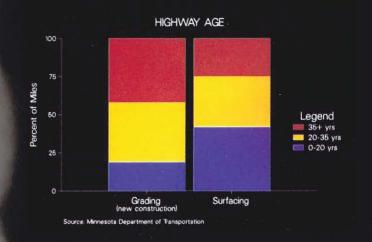
Legend Multi. Family (5+ Units) Single Family (1-4 Units)

40

ŝ

## HIGHWAY AGE

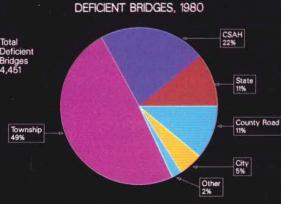
A large proportion of Minnesota's highways and bridges are reaching an age where they need to be rebuilt or resurfaced.



## **DEFICIENT BRIDGES, 1980**

51

About half of the state's deficient bridges are located on township roads.



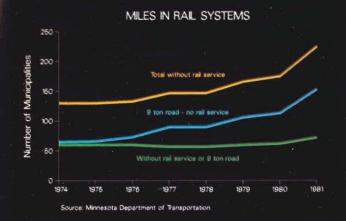
Source: Minnesota Department of Transportation

## MUNICIPAL RAIL SERVICE

A growing number of Minnesota cities do not have access to rail or a 9-ton road.

### RAIL ABANDONMENT

1620 miles of rail have been abandoned in Minnesota since 1967. The abandonment trend has accelerated in recent years.





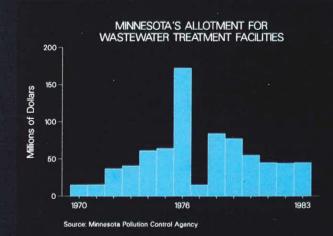


41

1

## WASTEWATER TREATMENT FUNDING

Federal assistance to Minnesota for wastewater treatment facilities peaked in the mid 70's.



## **EPA/PCA COST SHARING**

The federal share of sewer and wastewater treatment funding will decline 20% in 1984.

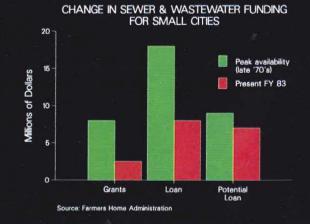


## SEWER AND WATER NEEDS, 1982

A recent survey identified \$1.5 billion of needed sewer and wastewater treatment projects for Minnesota communities.

## FHA-SEWER FUNDING

The Farmers Home Administration provides funding to small cities for sewer and wastewater treatment projects. Available funding has decreased and interest rates on loans are still relatively high.



SEWER AND WASTEWATER FACILITY NEEDS, 1982

Reconstruction \$45 M

> Source: PCA - Water Quality Division Federal Needs Survey, 1982

New Sewers \$400 M

Total: \$1.5 Billion

42

÷

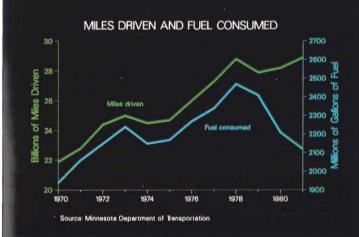
# URBAN INFRASTRUCTURE

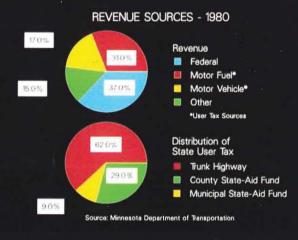
## HIGHWAY AND GASOLINE USE

Highway use has increased, but fuel consumption has fallen because of smaller and more fuel-efficient cars. Gasoline tax revenue has not kept pace with highway maintenance needs.



In 1980, 48 percent of Minnesota's highway revenue came from user taxes. 62 percent of the user tax is allocated to maintenance of the trunk highway system.





## HIGHWAY CONSTRUCTION COSTS

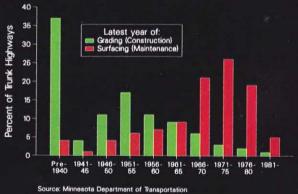
The cost of building and maintaining our highways has accelerated rapidly in recent years.

## HIGHWAY MAINTENANCE

Highway construction peaked in the 50's followed by a shift of revenue from expenditures to maintenance as our highways have become older.



#### HIGHWAY CONSTRUCTION AND MAINTENANCE



# URBAN INFRASTRUCTURE

## SOLID WASTE FACILITY NEEDS

27 counties have landfills with permitted capacity of less than five years.

## **RESOURCE RECOVERY EFFORTS**

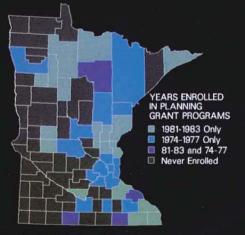
Since 1974, 37 counties have been involved in resource recovery planning.

#### PERMITTED LANDFILL CAPACITY



Source: MN Pollution Control Agency

#### **RESOURCE RECOVERY PLANNING**



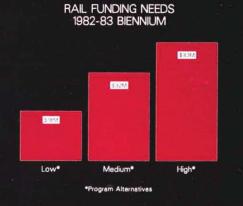
Source: MN Pollution Control Agency

## RAILROAD FUNDING NEEDS

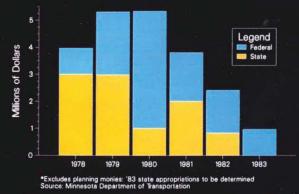
18 to 45 million dollars are needed to rehabilitate Minnesota's branchline railroads.



Federal and state appropriations for branchline rehabilitation are declining.

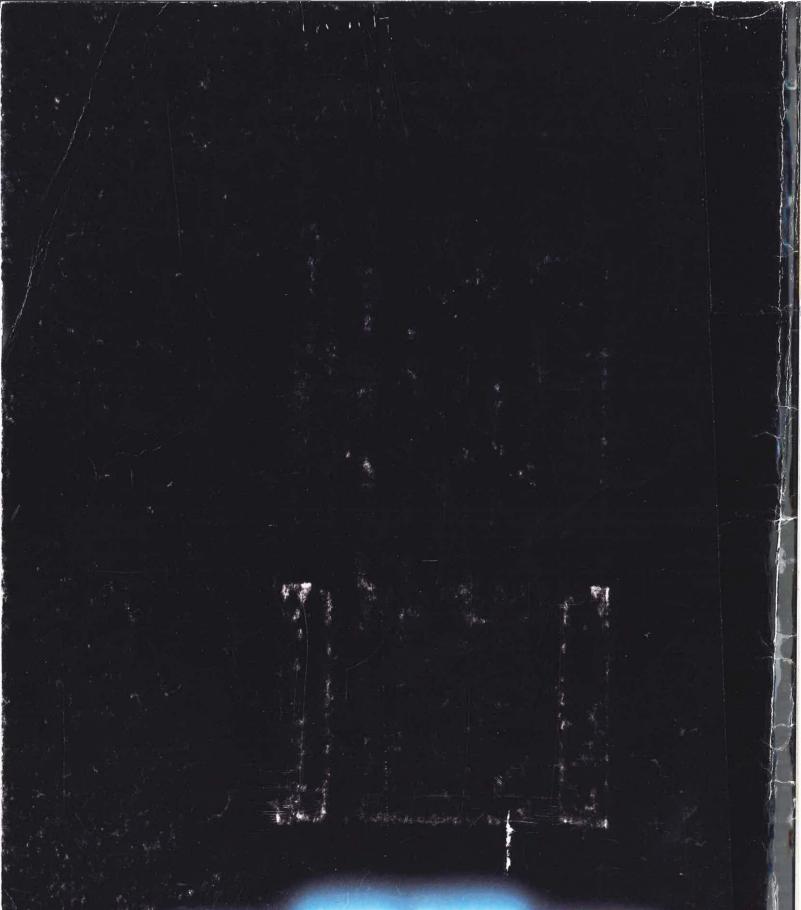


STATE & FEDERAL APPROPRIATIONS FOR RAILROADS\*





ŵ



DIVISION OF PLANNING DEPARTMENT OF ENERGY, PLANNING AND DEVELOPMENT