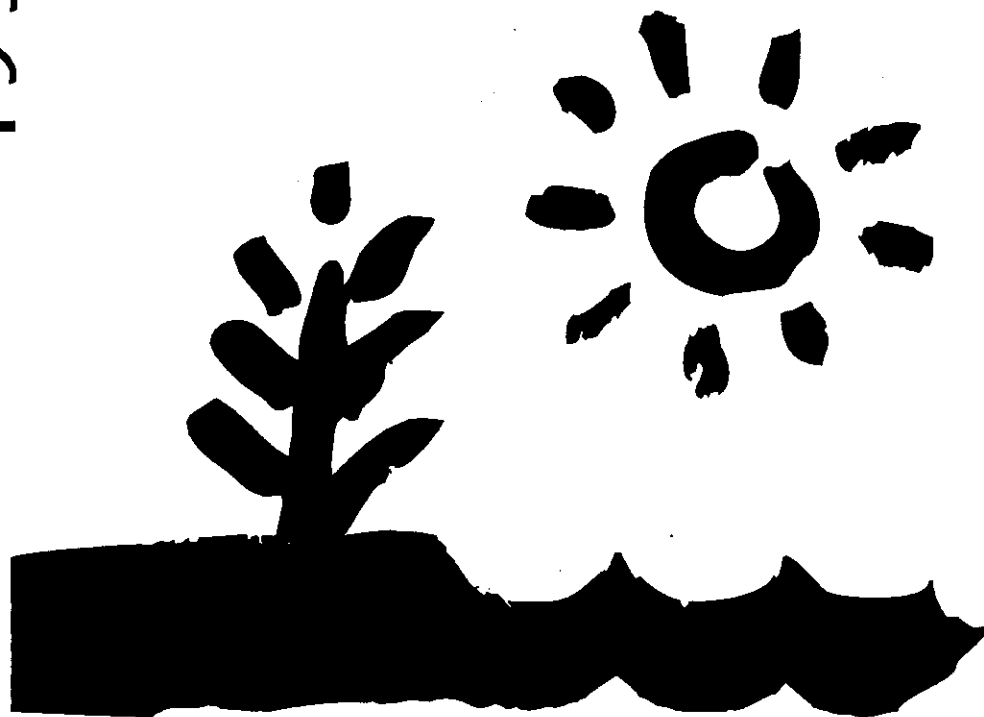


1998



Land Reclamation Program

Annual Report



1998 PROGRAM

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Quick Summary and Key Facts

Yearly Financial Contributions to Date

Yearly Liming to Date

Yearly Trees Planted to Date

Total Percentage of Financial Contributions to Date

Percentage of Tree Species Planted

Completed & Future Reclamation Activities (ha)

1998 Grassing Greening Sites

1998 Tree Planting Sites



b) Labour

Thanks to various funding agencies, many different positions were made possible this year. These positions ranged from working in the "field" planting trees, to administration and support. The major portion of our labour force this year was Ontario Works participants. This labour enabled us to complete our targets and plant the trees that were donated to the program. In addition, many other projects were completed including GIS mapping and the production of several brochures and documents to promote the program.

LABOUR STRUCTURE - 1998 Land Reclamation Program

Program	Number of Positions	Cost to Program	Activity
Regional Municipality of Sudbury <i>Temporary/Summer Students</i>	3	80 %	field work, tree planting, liming
Environment Canada <i>Environmental Youth Corps</i>	2	80 %	supervisor, mapper/ computer technician
Human Resources Development Canada <i>Youth Internship Canada</i>	2	nil	administrative support, graphic designer
Regional Municipality of Sudbury <i>Temporary Employees</i>	8	100 %	field supervisors, crew leaders, busdrivers
YMCA <i>Employment Support Services Youth Services Canada</i>	8	nil	tree planting
Nickel District Conservation Authority <i>Youth Services Canada</i>	6	nil	tree planting
Ontario Works	100 200 people Session 1 50 100 people Session 2	nil	tree planting, liming

Total 179

1) PROGRAM ACHIEVEMENTS

a) Summary

The Regional Municipality of Sudbury - 1998 Land Reclamation Program was a great success. A record number of trees were planted and numerous sites were "greened" (limed, fertilized and seeded) including a major liming effort off the SE Bypass. A record number of participants helped to complete the program, a work crew in excess of 200 individuals planted over **900,000 tree seedlings** and reclaimed almost **30 hectares** of land.

The following summarizes some of the activities that occurred:

Task	Result 1998	Total Completed
Area Limed	28 ha (69 acres)	3,251 ha
Area Fertilized	16 ha (40 acres)	3,092 ha
Area Seeded	16 ha (40 acres)	2,972 ha
Trees Planted	985,574	4,546,377 <i>trees</i>
Volunteers	190	

Funding Partners

- The Regional Municipality of Sudbury
- Federal Government
(Environment Canada, Human Resources and Development Canada)
- Provincial Government
(Ministry of Education and Training)
- TransCanada PipeLines Limited
- INCO Limited
- Falconbridge Limited

Other Partners

- YMCA Employment Services
- Nickel District Conservation Authority
- Ontario Ministry of Natural Resources
- Tree Canada Foundation
- District of Sudbury Social Services Administration Board
- Health & Social Services - Regional Municipality of Sudbury
- Brinkman and Associates Forest Renewal Center Inc.



c) Ontario Works

This was the second consecutive year that this Program has worked with the District of Sudbury Social Services Administration Board and the Regional Municipality of Sudbury's Health and Social Services Department to facilitate the Community Placement component of the Ontario Works Program.

The success of this partnership definitely increased from our pilot year. In the first session (twelve weeks in duration), 100 positions were created for 200 people, each participating two days per week at eight hours per day. In the second session, also twelve weeks in duration, 50 positions were created for 100 people, also participating two days a week at eight hours per day.

The individuals who participated on the program worked as part of our regular "crew" planting tree seedlings and "greening" barren landscapes by spreading lime, fertilizer and seed. In addition to assisting with the 1998 Land Reclamation Program, these individuals received job experience, a work history, a letter of reference as well as job search skills.

d) Volunteers

Over 20,000 trees were planted by **190 volunteers** who assisted with this years program. These volunteers ranged from elementary school children to adults involved in organized groups or clubs. The volunteer program provides educational opportunity on environmental issues, information on the reasoning behind the Region's Land Reclamation Program, as well as tree planting experience.



2) EVENTS

a) Earth Day Celebration

The Region of Sudbury in association with many others, hosted an Earth Day Celebration at Tom Davies Square on April 22/98, which proved to be a huge success. More than 20 groups participated in setting up displays to advertise their contribution to a cleaner environment. The groups ranged from school groups, to retailers to service providers; both private and government agencies. Entertainment was provided by the "Sudbury earthdancers".

The Sudbury Community Foundation in association with the Tree Fund, also set up a display which featured their latest campaign, *A Gift That Grows*, and tree seedlings were handed out.

Later in the day, attention moved to the Lake Laurentian Conservation Area for the unveiling of the Tom Davies Commemorative Forest sign. The Davies Family was present and participated in planting tree seedlings in the Forest.

b) Tree Giveaway

The annual Tree Giveaway was held Friday, May 8/98 and Saturday, May 9/98 at the New Sudbury Shopping Centre. Almost **17,000 tree seedlings** were handed out by more than 10 volunteers. The tree species given out included Jack Pine, Red Pine, White Pine, and the very popular Cedar. Over 6,000 individuals received trees.

Falconbridge Ltd. was on hand to provide soil testing for pH levels. The Sudbury Horticultural Association and Master Gardeners were also available to offer gardening and landscaping advice.

We also had an opportunity at this event to discuss activities and functions of the program. Many individuals are interested in learning about the activities and this year the "collection" box, for voluntary donations received **\$1,384.17**.

c) Appreciation Barbeques

This year, barbecue lunches were held for the participants of the Ontario Works Program. At these events, participants were thanked for their participation in the Land Reclamation Program and for their compliance to the Ontario Works Program. Awards, in the form of Program T-shirts, were distributed to individuals with outstanding attendance and dedication to their Placement.



In all, four lunches were held to encompass the two sessions (12 weeks each) and the two crews per week (Monday-Tuesday crew and Wednesday-Thursday crew). On June 23 & 24/98, this event took place at Simon Lake Park, where some individuals chose to take a quick dip in the water to cool off and on September 22 & 23/98, at Fielding Park where we were joined by water fowl looking for a few bread crumbs.

These lunches seemed to be a success, and the Participants were made to feel that they were really doing some good work that was appreciated by many people.

d) Let's Root for Canada - Visit

TransCanada PipeLines and Tree Canada Foundation formed a unique partnership last year, to create a youth ambassador tour entitled *Let's Root for Canada*. This program is a cross-country educational and awareness program focused on youth, culture and the environment. On Tuesday, June 23/98, the young ambassadors made their way to Sudbury to participate in the tree planting activities of the Land Reclamation Program. They planted over 1,000 seedlings off Coniston Hydro Road and out on the NW Bypass. They also joined in our barbecue lunch held at Simon Lake Park in Naughton.

e) Appreciation Ceremony - VETAC and Program Partners

An appreciation ceremony was held on Wednesday, December 9, 1998 to thank many of the sponsors and supporters of the Program. Certificates of appreciation were presented to all members of the Vegetation Enhancement Technical Advisory Committee (VETAC). In addition presentations of awards were made to some of our "partners". These included Human Resources Development Canada (HRDC), Tree Canada Foundation, TransCanada PipeLines Ltd, INCO Limited, Falconbridge Limited and the Sudbury Community Foundation.

Our program owes its success to the many individuals and organizations that have made contributions to the program. This ceremony was well appreciated by all recipients.



f) Continuous Improvement Session

Upon completion of their work session, participants and employees took part in an information session to discuss the Program activities. Questions were asked to determine what improvements and efficiencies could be made. The intent of this session, was to provide all participants a forum for discussing their ideas, as well as an opportunity to learn what issues remain challenges for improvement.

Several excellent ideas were discussed and will be incorporated into the 1999 Program. One of the ideas suggested was to provide a stacked tree rack for the Quad. This rack would reduce the number of trips that the Quad would have to make and maintain the supply of trees to planters.

g) *A Gift That Grows* campaign

This program was quite successful this year. Over 100 people donated to this venture and had a tree planted to commemorate a special event. These events included the celebration of Easter, Birthdays, Mother's Day and Anniversaries. In addition, there were donations made for memorials and appreciation events.

This fund is slowly growing. It is hoped with increased advertising and promotion, the fund will continue to grow.

h) Friends of VETAC

The Friends of VETAC campaign was initiated. Several members of VETAC have been selling tickets. A presentation to Regional Council was made regarding this program. It is hoped that the campaign will get underway in 1999.

Monies from this venture, will go toward the various projects initiated by VETAC sub-committees. These include advertising and promotion projects and materials.



3) PROJECTS

a) Mapping and Cartography

i) GIS Mapping

Mapping is an important part of the planning and activities of the Land Reclamation Program. There has been a lot of work completed by the Region's Land Reclamation program as well as by other groups and organizations. The records of what was planted, when and where, are very important to plan future efforts as well as monitor the survival and quality of previously planted and reclaimed sites.

We have completed GIS mapping for the Land Reclamation Program for the following:

- Tree Planting 1978 - 1998
- Greening 1978 - 1998
- Monitoring and Research Sites 1978 - 1998

To upgrade records of the program's activities utilizing current technology, all previous mapping of Land Reclamation activities (tree planting and greening) were digitized and stored on computer. With this type of mapping, a cumulative map can be constructed by overlaying or adding all activities from year to year. In this format, Land Reclamation progress can be clearly defined.

Another project completed was to identify what areas in the Region still required some form of treatment. This was accomplished by first updating a base map outlining roads, buildings, residential areas and bodies of water. From this point, FRI maps from the MNR were utilized to determine what areas from their analysis were still in need of reforestation. The work that the Land Reclamation Program had completed was deleted from this map and all other areas were "ground truthed" for accuracy.

The Land Reclamation data summaries completed in the past years were updated to the current level of technology available today. All year end mapping summaries were digitized and compiled on a database and a cumulative map was developed including activities over the past twenty years for tree planting and greening activities.

Through the use of other data sources for urban use areas, waterways and already forested areas, as well as Land Reclamation activities, a final map is in development which will outline areas in the Region that are still in need of some form of reclamation activities, be it liming or tree planting or both.



Updating yearly efforts and locations of activity, can now be completed much more efficiently and in a shorter time frame. GIS mapping has produced drawings that are very clear and easy to read. One of the added benefits of GIS mapping is that various combinations or pieces of information can be produced, as information is now stored in a data base.

ii) Five Year Plan

We have utilized GIS mapping to assist with the development of a five year plan.

The use of GIS has enabled us to produce more accurate mapping. In addition, the quality and production of the drawings are very professional and easier to read.

This five year plan identifies the future direction for the program and outlines what areas are left for reclamation and tree planting. This plan will serve as a tool for planning yearly programmes as well as providing an overall outlook for the program. The capability of GIS, will allow us flexibility in creating drawings with various pieces of information.

b) Graphic Design

i) Land Reclamation Logo

An effort was made to utilize the Land Reclamation Logo. The logo was converted to many computer formats, to allow for ease in future use of the logo in print format. In addition, the logo was placed on all vehicles that are used on the program.

The Logo was also used on t-shirts and hats that were presented to some of our Ontario Works volunteers.

ii) Brochures

A Gift That Grows

The production of this 6 panel colour brochure, will allow us to promote the various aspects of this venture. *A Gift That Grows* program, has generally been thought of as a program to acknowledge memorials. This brochure promotes various events, such as birthdays, weddings and anniversaries , that can be celebrated by having a tree planted to commemorate an event.



Land Reclamation Program

A brochure illustrating the process and activities of the Land Reclamation Program was completed. This brochure, complete with colour photos also provides information on the history of the program.

VETAC

A bilingual brochure outlining the mandate, history and activities of the Vegetation Enhancement Technical Advisory Committee (VETAC) was produced. This brochure was intended to "stand alone" as well as be handed out during "Friends of Vetac" efforts.

iii) Awards Case Renovation

The awards case that houses the many awards received by the Land Reclamation program was upgraded. In addition to receiving a new coat of paint, new bilingual signs were added.

iv) Display Board

A revised display board is currently being completed. The previous display board was completed in 1985 and was outdated and in need of repair. The new display board will explain the history of the program, our process and will illustrate the program's effects through "before" and "after" photos.

The display board is used at events in the Region as well as throughout Ontario.

v) Nickel Centre Welcome Centre - Gazebo Interpretive Sign

A sign was completed that visually depicts "land reclamation in progress". The open gazebo at the Nickel Centre Welcome Centre features this sign to direct attention to the surrounding reclaimed landscape. The new bilingual sign will provide visitors to the site information about the land reclamation program as well as a real demonstration on land reclamation in progress.



vi) Land Reclamation Program - Multi-media presentation

A multi-media presentation was prepared that illustrates the history, process, and results of the Land Reclamation Program. This presentation was prepared on computer and will allow flexibility in adapting it to various audiences.

vii) Frood Road Signs

Two large signs were installed at a location where Land Reclamation occurred in the early 1980's. These signs identify the site as "Land Reclamation in Progress".

viii) Granite "Recognition" Plaque

Signs were located at the Sudbury Airport, Donovan and Science North.

vii) Web Page

The development of a web page to highlight the Land Reclamation Program has been initiated. The intent of this "site" is to tie in to the Regional Municipality of Sudbury's web page.

The Land Reclamation web page will provide information of the past, present and future activities of land reclamation. Several links to our main partners will be highlighted at this site.

c) Other

i) Administration/Files

Given the large number of individuals (over 300), working on the program this year, we were fortunate to receive outside funding for an administrative assistant to coordinate the comings and goings of the participants. This position monitored attendance and provided a contact for the participants.

In addition, templates for all common forms were created and a revised filing system initiated.

ii) Archiving Photos

The process of scanning and storing our many photographs on computer CD, is almost complete. This involves cataloguing the twenty year history of the program from slides and pictures onto disk. Many of our historical photos were fading and were being misplaced. Our photos can now be easily reproduced into many visual formats as they have been stored in a computer format.

iii) Field Photos

Many of our previously documented and photographed sites were revisited and photographed. These photos will be added to our collection of "before and afters", updating these historical photos.

4) OTHER

a) Media

Several media covered the progress and/or activities of the Land Reclamation Program. Media response was positive and responded to many of our programs and events.

Newspapers

- Mining North
- Sudbury Star
- Northern Life
- The Globe & Mail
- Toronto Star

Radio

- Metro Morning - CBC Toronto
- CKLU - morning show
- Radio Canada (CBC - French)

Television

- The Box - Sudbury Community Television
- MCTV Evening News



5) FINANCIAL SUMMARY

The Land Reclamation Program was very fortunate to receive funding and material from outside "partners". The program costs **over 1 million dollars** to operate. The Region of Sudbury contributed just over **\$132,000.00**. The Region therefore contributes **12%** of the Program. The other 88% of the program costs are financed from others.

Financial Summary - Including "In-kind" contributions of labour and material.

Program Contributions by Others	Number	Weeks	Source	Amount
LABOUR				
<i>Environment Canada</i>	2 (partial)	92	Federal	\$13,000.00
<i>Environmental Youth Corps</i>				
HRDC - Youth Internship Canada	2 (full)	50	Federal	\$17,500.00
YMCA Employment & Career Services	3 (partial)	46	Provincial	\$3,220.00
<i>Summer Jobs Service</i>				
YMCA Employment & Support Services	8	32	Provincial	\$7,426.56
<i>Youth Services Canada</i>				
NDCA - Youth Services Canada	7	14	Provincial	\$3,274.24
Ontario Works	300	3600	Provincial	\$576,000.00
CASH CONTRIBUTION				
INCO Limited			Mining Co.	\$25,000.00
Falconbridge Limited			Mining Co.	\$15,000.00
District of Sudbury Social Services			Provincial	\$80,000.00
<i>Administration Board</i>				
MATERIAL CONTRIBUTION				
NDCA (Trees)	15,000	15,000	Private	\$4,500.00
TransCanada Pipes & Tree Canada Foundation (Trees)	689,651	689,651	Private	\$206,895.30
Sub-Total				\$951,816.00
Region of Sudbury Contribution				\$132,814.00

GRAND TOTAL

\$1,084,630.10



6) CHALLENGES FOR 1999

The 1998 Land Reclamation Program was very successful. All of the goals and expectations for the Program were met and/or surpassed.

Several challenges have been explored for 1999. These include:

- distribution and finalization of the new 5 year plan
- securing long term commitments from funding "partners"
- initiating projects and programs initiated by VETAC sub-committees
- marketing the program and process





KEY FACTS

1998 Quick Summary

- 985,574 tree seedlings were planted in 1998
- 28 ha or 67 acres of land was limed, the primary location being between Coniston and the SE Bypass
- 16 ha or 40 acres of land was fertilized
- 16 ha or 40 acres of land was seeded
- 16 short-term jobs were created
- over 300 individuals participated in the Program through Ontario Works
- almost 200 volunteers participated in this year's program, planting trees throughout the Region
- almost 17,000 tree seedlings were given away to residents of the Regional Municipality of Sudbury
- to date, 4,546,377 tree seedlings have been planted throughout the Regional Municipality of Sudbury as a part of the Land Reclamation Program

Funding Partners Included

- The Regional Municipality of Sudbury
- Federal Government
(Environment Canada, Human Resources and Development Canada)
- Provincial Government (Ministry of Education & Training)
- District of Sudbury Social Services Administration Board
- TransCanada PipeLines Limited
- INCO Limited
- Falconbridge Limited

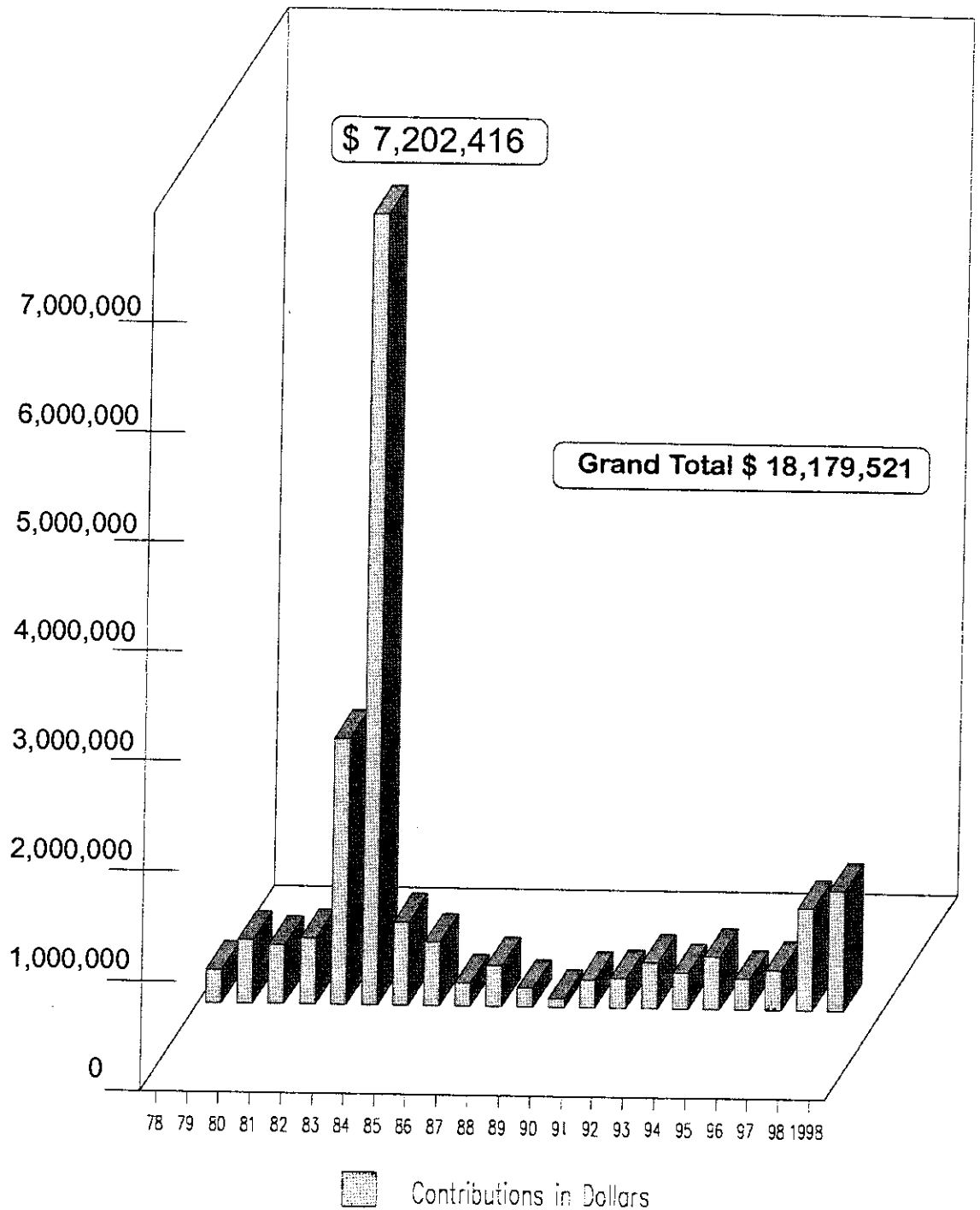
Other Partners included

- YMCA Employment Services
- Nickel District Conservation Authority
- Ontario Ministry of Natural Resources
- Tree Canada Foundation
- Health and Social Services - Regional Municipality of Sudbury
- Brinkman and Associates Forest Renewal Centre Inc.



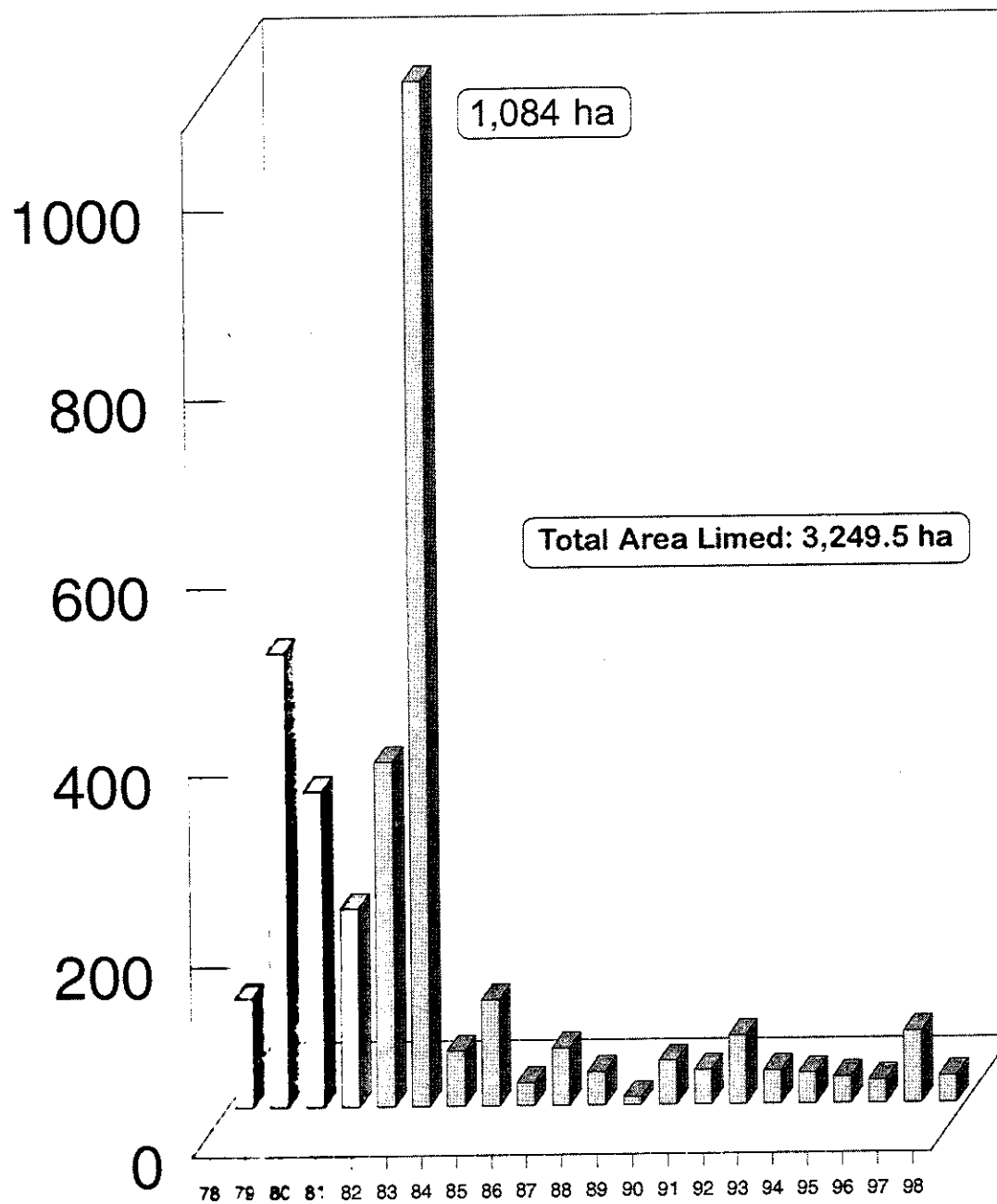
Yearly Financial Contributions To Date

1978 to 1998



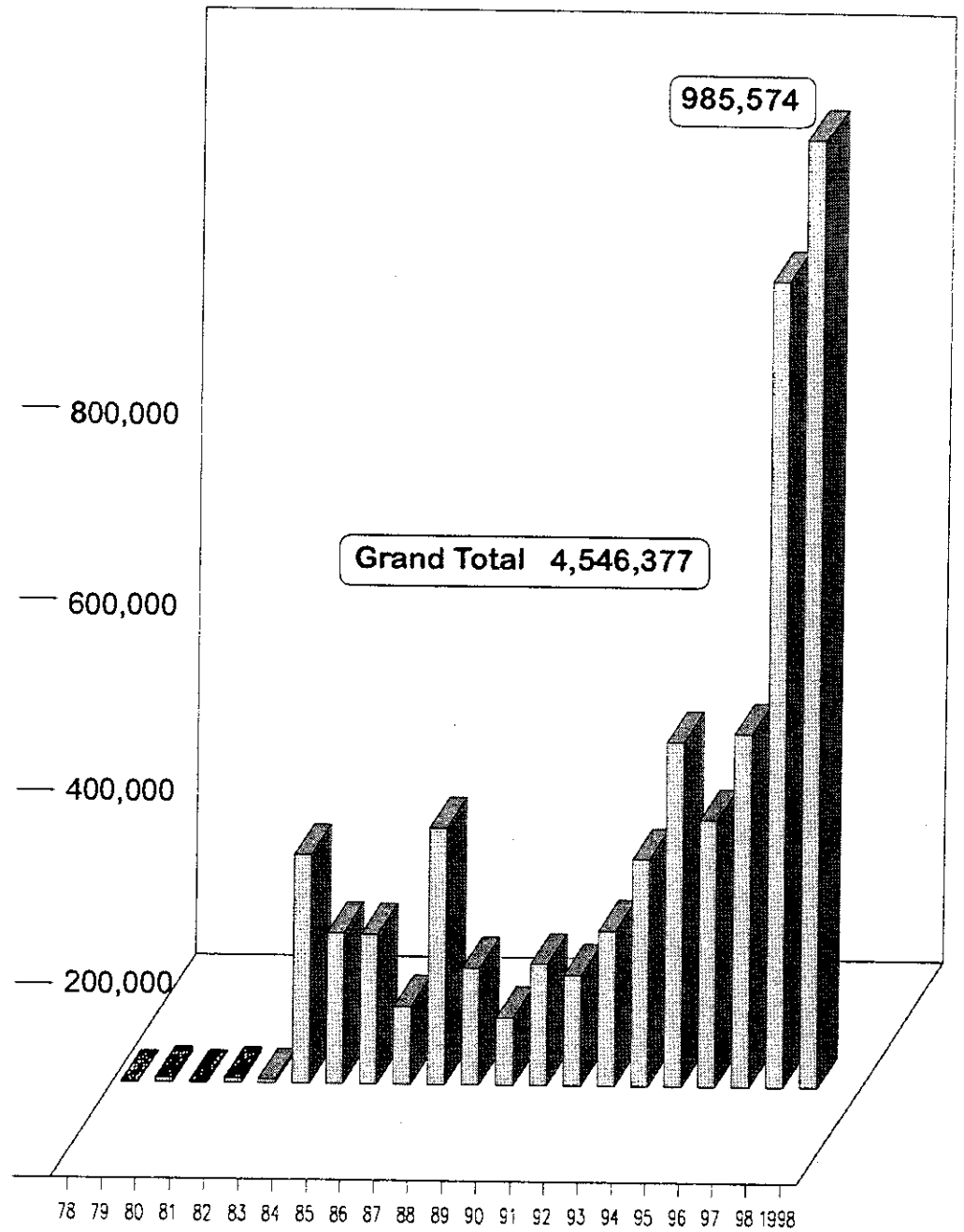
Yearly Liming To Date

1978 to 1998

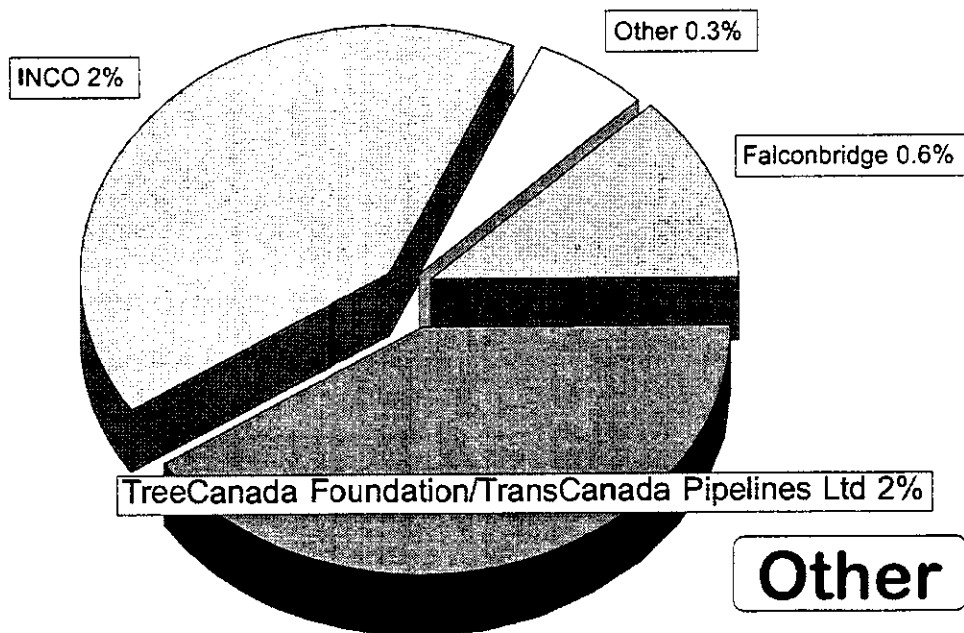
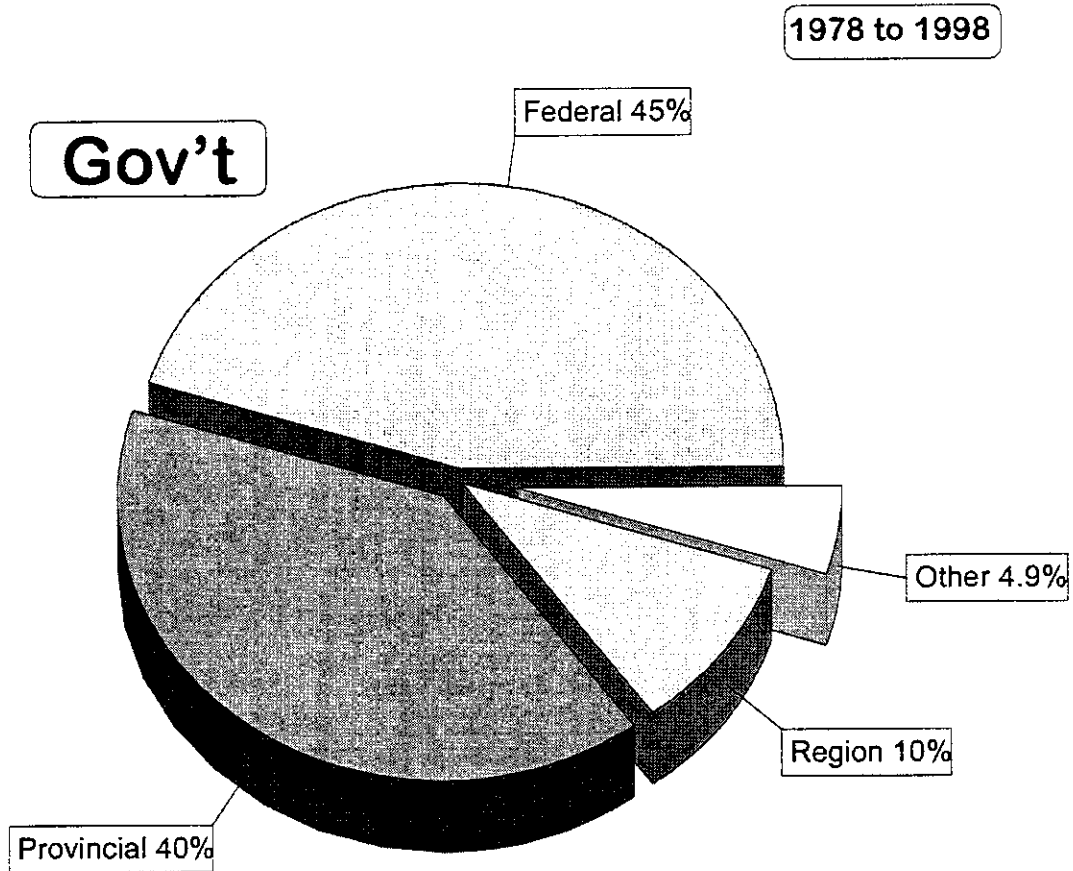


Yearly Trees Planted To Date

1978 to 1998



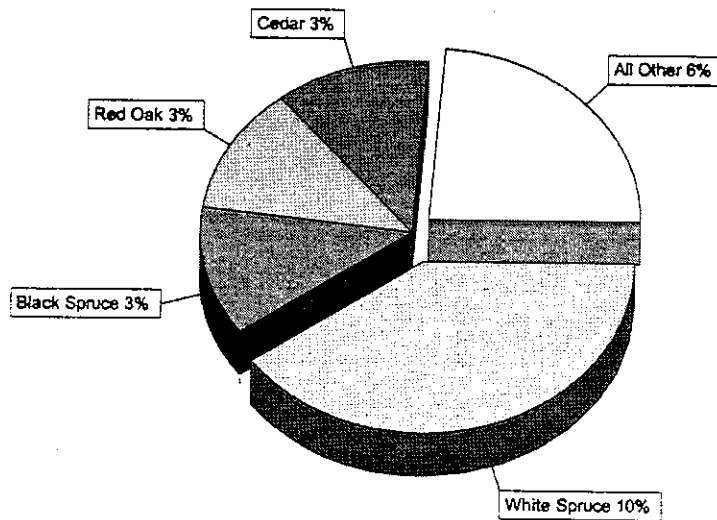
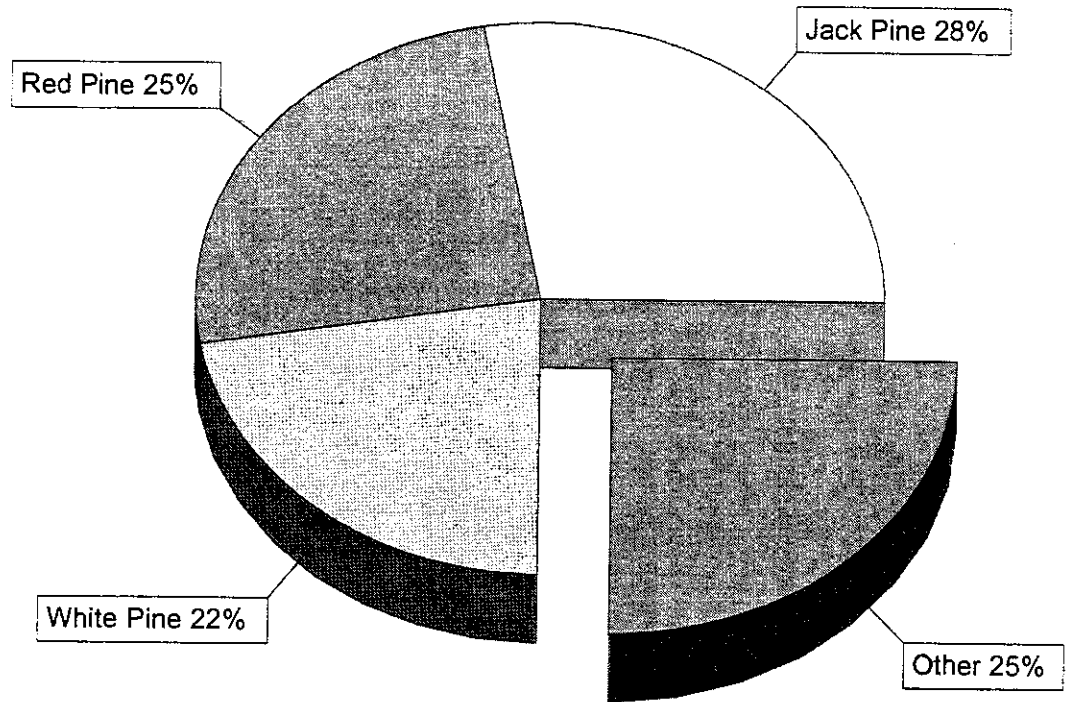
Total Percentage of Financial Contributions To Date



Percentage Of Tree Species Planted

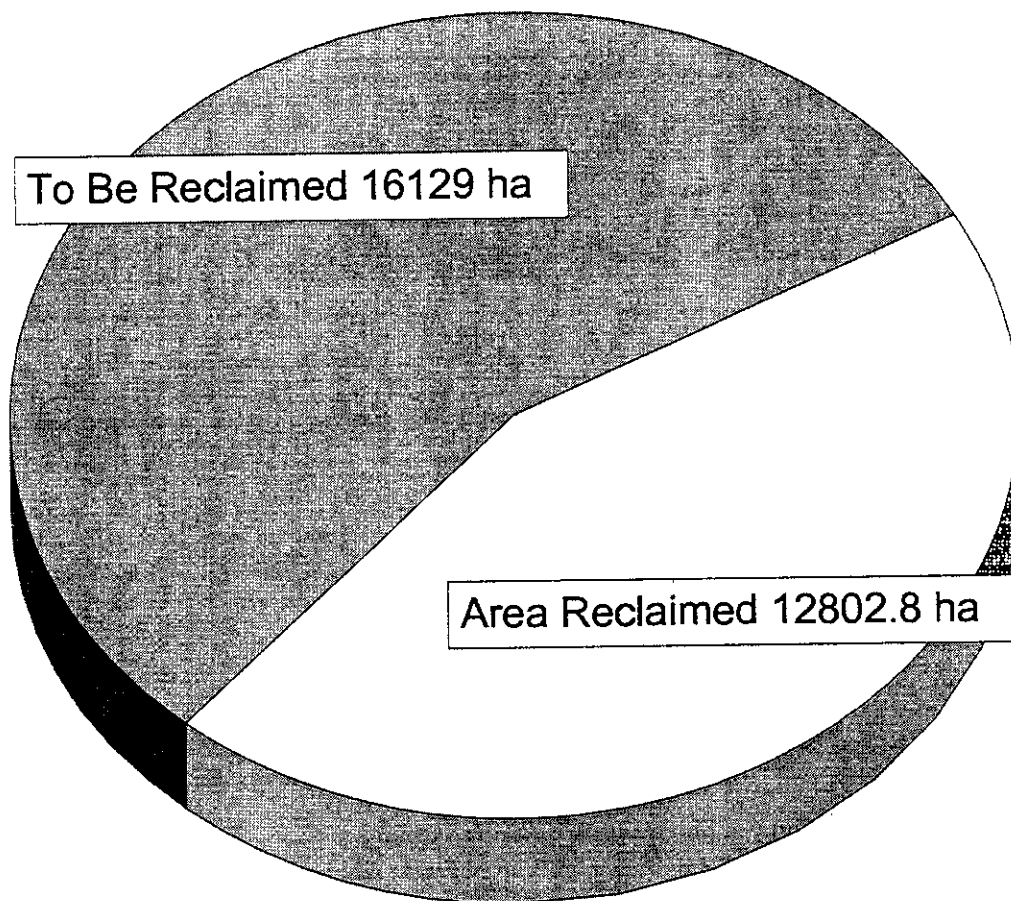
1978 to 1998

Pine



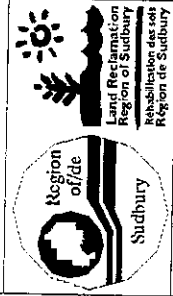
Completed and Future Reclamation Activities

1978 to 1998

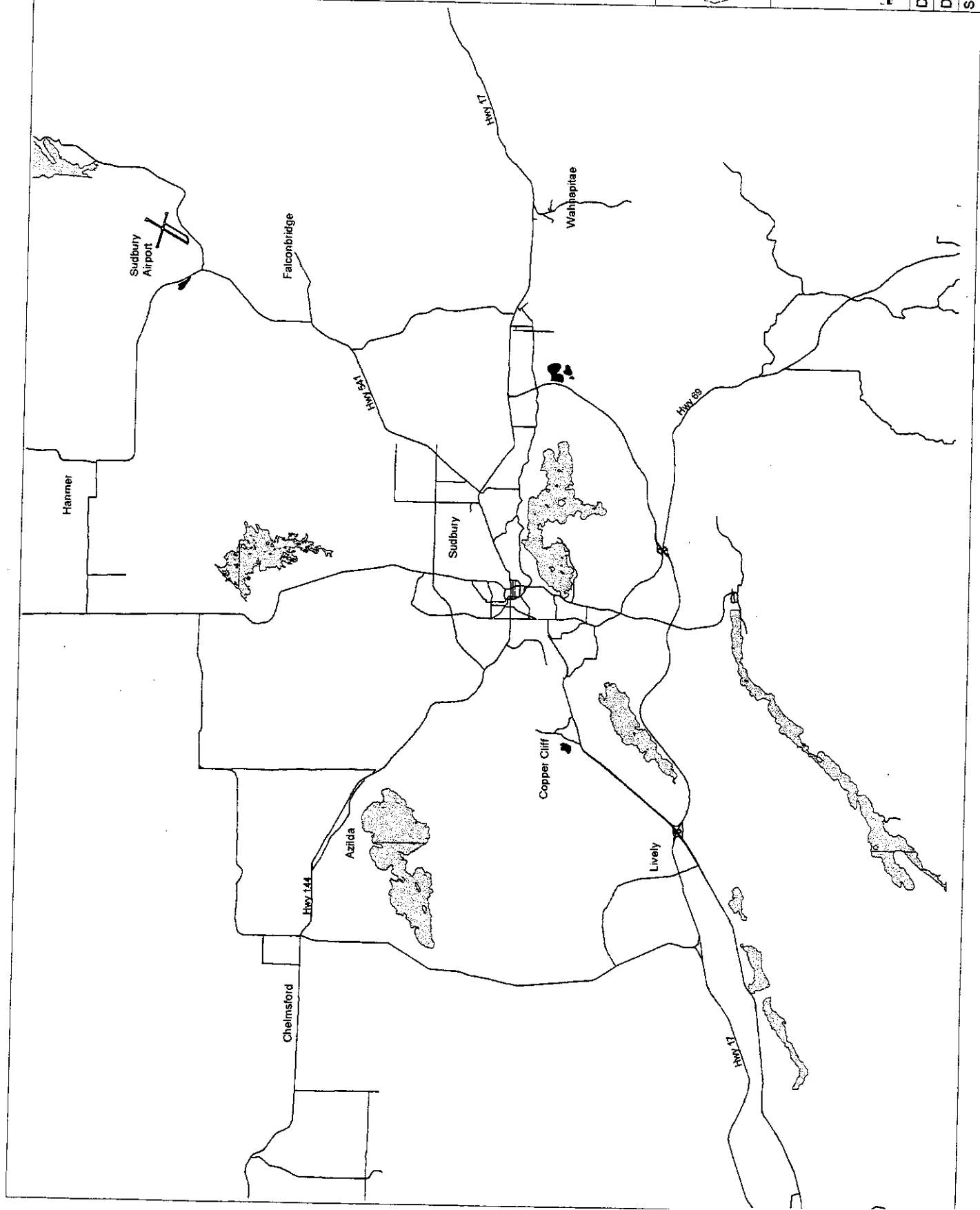


LAND RECLAMATION PROGRAM GRASSING AND GREENING SITES 1998

- Roads
- ▨ Lakes
- Grassing & Greening Sites

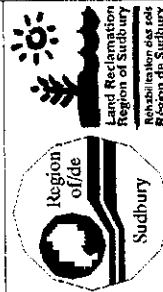


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 Source: OBM, VETAC



LAND RECLAMATION PROGRAM TREE PLANTING SITES 1998

- Roads
- ▨ Lakes
- Tree Planting Sites



Drawn by: Guy Glonet
Date: 12 \ 09 \ 98 Dwg: YTP98
Source: OBM, VETAC

