



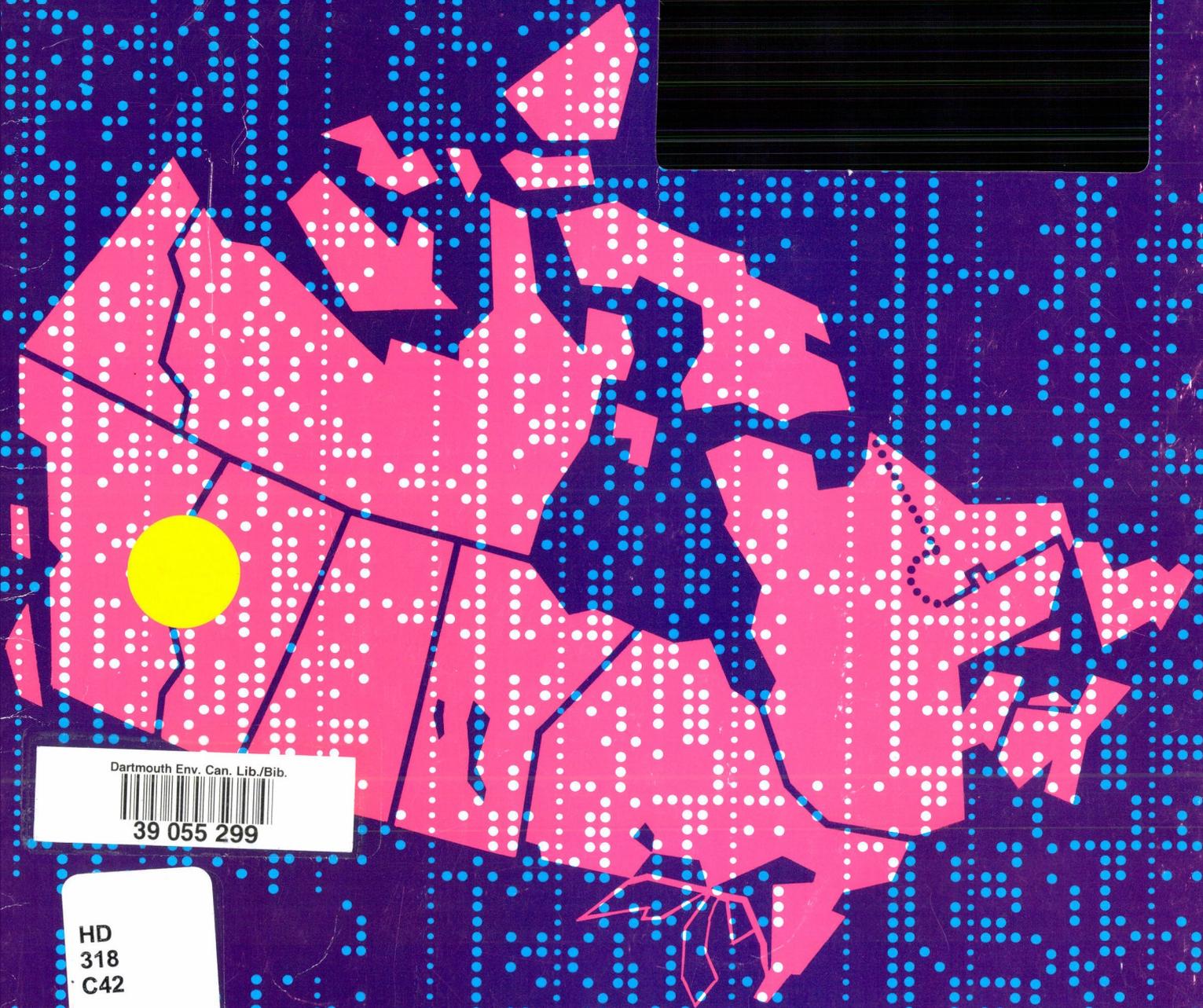
Environment
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Environnement
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Directorate

Direction générale
des terres

Canada land data system



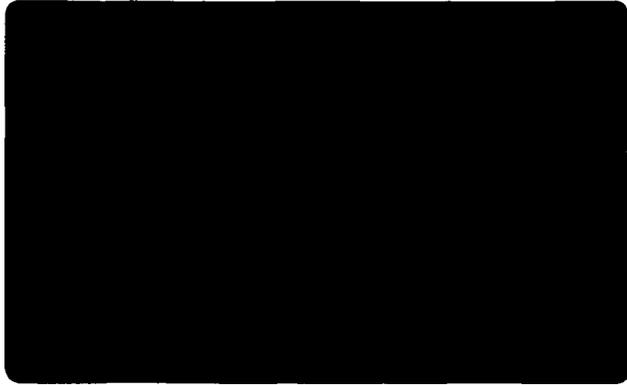
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Canada geographic information system



Canada Land Data System

Canada Land Data System (CLDS) is a computer system which handles land resource information. CLDS can manipulate and produce land data in various forms to facilitate effective land use planning and management at all levels: national, provincial, regional, municipal.

CLDS, through its main component, the Canada Geographic Information System (CGIS):

- stores
- manipulates
- analyzes
- provides access to physical, biological, social and economic information on Canada's land resources.

Types of information available

Canada Land Data System provides access to:

- more than 3 500 digitized maps. These maps include those of the Canada Land Inventory, which detail land capability for forestry, agriculture, recreation and wildlife — waterfowl and ungulates — for one-third of Canada
- unpublished Canada Land Inventory land use maps
- updated land use data for specific areas
- census and administrative boundaries
- watershed boundaries
- pollutant transfer maps
- information on federal land holdings
- ecological land data for various areas
- other land data.

An index of information available can be obtained from the Lands Directorate which administers the system.

Demonstrated uses

Clients such as provincial and federal government departments, crown corporations, universities and various land survey groups use this computerized land data system for:

- land use planning and monitoring
- measuring shorelines
- federal land management
- defining areas of conflict between competing resource uses
- national parks planning and management
- linking census data to other types of information
- environmental impact studies
- ecological land evaluation
- coastal zone studies
- country-wide summary of land capability and uses
- creating data for input into other geographic information systems.

CLDS services

Input:

CLDS converts land data for entry into a data base quickly, accurately and at low cost using a digitizing process. Data is digitized by:

- *map scanner*: main method used, automated, capable of handling large numbers of maps. CGIS was first operational system to use this method routinely for converting map data
- *IDESS (Interactive Digitizing and Editing Sub-System)*: data displayed on terminal screen for immediate verification, editing and update.

Output:

- provides information in tabular form on wide range of topics (e.g. areas of permafrost in northern Manitoba)
- provides data in map form on variety of topics, at any required scale. Maps produced in black and white or color
- prepares tabular and map information for direct input to other data systems such as Statistical Package for Social Sciences.

Standard Products

Information available in printed or digital form for CLI data by:

- province
- county or census division
- municipality
- enumeration area
- watershed
- National Topographic Series maps

Access

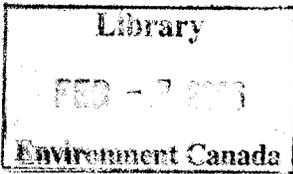
Map data are available from graphics terminals at Lands Directorate offices.

Tabular information can be retrieved from terminals anywhere in Canada via telephone links.

Cost

Processing costs depend on user requirements. Cost estimates are available on request.

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CLDS/CGIS
Applications Report

Land Resources of
South East New Brunswick

**Environment Canada
Library
5th Floor, Queen Square
45 Alderney Drive
Dartmouth, N.S. B2Y 2N6**

Prepared for
Agriculture Canada
Regional Development
and International
Affairs Branch

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Lands Directorate
Atlantic Region**

CLDS APPLICATIONS REPORT

Preface

This report is one of a series of papers which present various applications of the Canada Geographic Information System (CGIS) to land use problems across Canada. Their intent is to provide users with a description of the situations in which CGIS has proven useful, with the hope of stimulating further thought regarding the utility of such a system in land use analysis.

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Introduction

The information contained in this report has been compiled as background material for a Regional Development Plan. The region is the South East portion of New Brunswick as shown in Figure 1. This takes in all of Kent County, the parishes of Rogersville and Hardwicke in Northumberland County, the parishes of Botsford, Dorchester, Sackville, Shediac and Westmorland in Westmorland County and the parishes of Harvey, Hillsborough and Hopewell in Albert County. The information is drawn from the Canada Land Data System of Environment Canada and presented as a series of tables and plots. The data is based on the Canada land inventory, describing the capabilities of the land in the region and the various land uses to be found there.

The System

The Canada Geographic Information System (CGIS) forms the core of the Canada Land Data Systems. It is a computer based tool that applies the processing and data handling capabilities of large scale computers to the task of reducing, tabulating, manipulating and retrieving map data. Like other information systems CGIS is capable of reading and storing data of a particular topic or topics and providing a means of manipulating that data. In the case of CGIS, the data in map form comprises a National land resource information system. The map data covers all of Canada in a series of "coverage" each containing information on a specific set of characteristics. The design and development of the system started in 1963 and became fully operational in 1971.

Designed originally to meet the needs of the Canada Land Inventory (CLI) but now functioning as a general purpose package CGIS holds as its primary data base, most of the information collected for the CLI. However, the systems designers did not make CGIS dependent on the CLI, rather, they designed a system capable of processing CLI data and any map data that resembles the CLI data. Generally this is

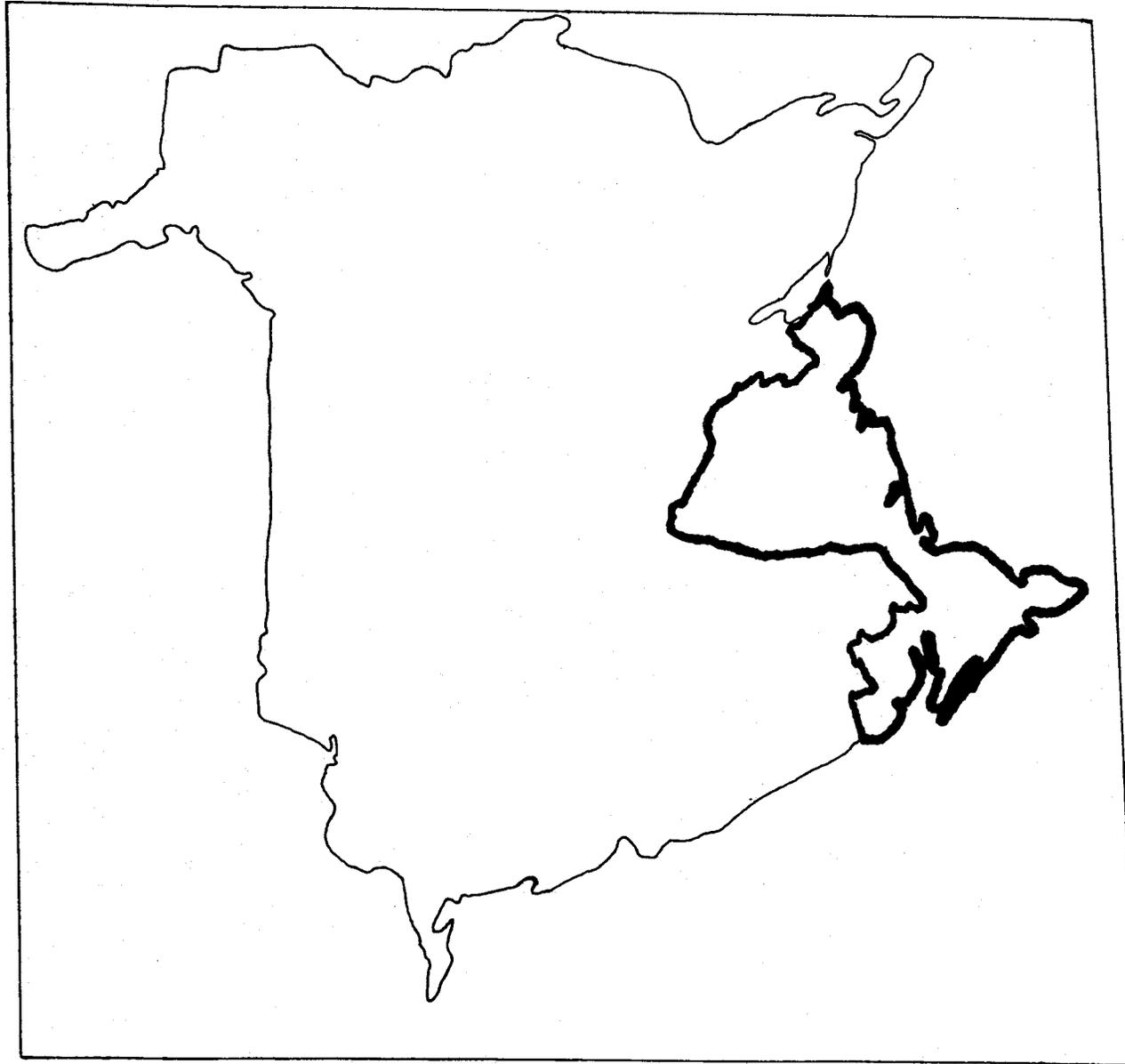


Figure 1: South East New Brunswick Planning Region.

data on maps, composed of closed polygons, with each polygon having a description. Hence the link between the capabilities of the land and other physical or social factors can be made through the input and overlay of non-CLI coverages, watersheds, or river basin boundaries and other administrative boundaries. The overlain coverages containing both CLI and other coverages offer an extensive number of cross-sectoral analyses of the earth's surface.

Input to the system is through an optical drum scanner or an X-Y digitizer and is expressed as a collection of irregular shaped polygons, each with a unique identifier. The identifier can be simple or very complex. The system will accept maps at scales ranging from 1:400 to 1:1,000,000 provided that the maps are on a UTM or Lambert Conic Conformal projection.

The retrieval of data from the system allows for manipulations of both image and descriptive attributes of the input data. Complex manipulations are simplified by the use of a high level command language. It's manipulative capabilities include overlay, i.e., one can overlay one map with another (up to eight in one pass). Polygons can be grouped and dissolved and perimeter lengths calculated. A high level assessment language and an inter-active, user oriented graphics sub-system allow for very simple or very complex retrievals.

The Data

The data set utilized for this analysis is based on the CLI information contained in the Canada Land Data System. In this particular case the following information is contained in the data set.

- (1) County boundaries
- (2) Parish boundaries
- (3) CLI capability for agriculture
- (4) CLI capability for forestry
- (5) CLI capability for recreation
- (6) Present land use

Each type of information or coverage is given a variable name.

- | | | |
|-----|-------|-------------------------|
| (1) | CNTYX | Counties |
| (2) | DNTTW | Parish or townships |
| (3) | AGRCL | Agricultural capability |
| | AGRSI | Sub classes |
| (4) | FORCL | Forest capability |
| | FORSL | Sub classes |
| (5) | RECCL | Recreation capability |
| (6) | PLU68 | Present land use |

The values assigned to each variable are listed in Appendix "I"

Retrievals

The Interactive Graphics Sub-System (IGS) of the CLDS provides users with the capability to retrieve their resource data with a minimum of training. No computer programming background is required prior to using the system since the retrievals are all done with a simple high level language especially designed for this system. The commands used in the IGSS are:

- | | | |
|-----|----------|---|
| (1) | LIST | Lists all variables available in the data base |
| (2) | LANGUage | Allows the user to choose the language in which prompts and messages from the system appear. |
| (3) | REDUce | This command will reduce the character size on the screen of a 4014-1 or 4015-1 terminal. |
| (4) | SOS | Lists and describes all available commands on the system. If a command name follows the SOS command then only the description attached to that command appears. |
| (5) | STOp | Halts the interactive program and terminates a graphics session. |
| (6) | ??? | Interrupts processing and returns program to command mode. |
| (7) | SELect | Selects areas by classification (by variable and value requested) and produces on report. |
| (8) | TITLe | Allows the user to specify the maximum number of values to be printed for each variable. |

- (10) SUBset A subset data base is created via a selection process. All subsequent selections and tabulations are compiled against this subset. To return to the original graphics data base, simply attach the CANCEL to this command.
- (11) PLOt Plot the selected areas from the last selection operation. A variety of operands can be attached to this command.
- CON Plots continuously
 - OVE Plots the overlay file previously stored
 - SHA Shades selected areas with
 - SHO Plots shoreline (dotted)
 - GER Generates a plot file
 - BOU Retain boundaries to be plotted
- BOU = Variable to be plotted
= ALL - will plot all boundaries throughout the data base
= SEP - will produce separate plots for every variable specified in the variable list.
- (12) SAVe Saves the origin and scale of the last window so that subsequent selections are confined to that area.
- (13) SCAle Permits the control of the scale required on plots produced from the WINDOW operation.
- (14) WINDow Allows the user to window on any area of a plot using the cross hair or by entering the screen co-ordinates.
- (15) CENTroids Allows the user to automatically label areas selected.
- (16) POInts Allows the user to plot points from a point map and to identify each point by the class attached to it.
- (17) OUErlay Allows the user to save a selection as an overlay file to be plotted any time during the session.

A number of retrievals were performed using the New Brunswick data base and the IGSS commands.

Selection 1

The first selection involves the delineation of the specific study area out of the existing data set. This is accomplished through the subset command of the IGSS. The subset is defined using variables existing within the data set. In this case the subset will be based on county and parish boundaries. The following sequence of commands are entered.

```
SUB
Variables to be selected
CNTYX/CNTTW
Values to be selected from CNTYX
08
Values to be selected from CNTTW
09013 09007 06002 06005 06006 07003 07004
07005 07006 07007
```

The slash between CNTYX and CNTTW is used to identify a logical "or" operation. This specifies that any areas in county 08 (Kent) or the parishes listed under CNTTW will be selected. The results of this procedure are listed in Table 1.

Variable	SELECTION	SUMMARY OF AREAS SELECTED		Page	2	***
Values	20	Acres	Hectares	%Selection	% Study	
Variable : CNTTU-values selected: All values						
07004	72,722.3	29,476.8	3.7	3.4		
07006	101,086.3	40,939.9	5.1	4.8		
07005	161,813.0	65,534.3	8.2	7.7		
09007	70,918.3	28,721.9	3.6	3.3		
08007	93,589.3	37,903.6	4.7	4.4		
08008	287,142.1	116,292.5	14.6	13.6		
08009	114,997.8	46,574.1	5.8	5.4		
09013	83,296.0	33,734.9	4.2	3.9		
02002	79,087.8	32,030.5	4.0	3.7		
02003	64,936.0	26,299.0	3.3	3.0		
02004	43,685.0	17,684.3	2.2	2.0		
02005	67,340.3	27,272.8	3.4	3.2		
02001	109,446.7	44,625.0	5.5	5.2		
08006	151,469.9	61,345.3	7.7	7.2		
07003	116,221.0	47,069.5	5.9	5.5		
03011	57,229.7	23,178.6	2.9	2.7		
08010	53,049.2	21,727.9	2.7	2.5		
07007	43,289.6	17,598.3	2.2	2.0		
06002	34,294.9	34,199.4	4.3	4.0		
06006	34,739.8	14,069.6	1.7	1.6		
06005	64,704.0	26,266.1	3.3	3.0		
Total selected	1,955,700.1	792,658.5		93.0		
Total land area	2,101,037.6	850,920.2				

NOTE: Selection based on a predefined subset
Enter command:

The IGSS then automatically plots the Subset area, Figure 2 and allows the user to WINDOW on the area and enlarge the image for easier viewing, Figure 3.

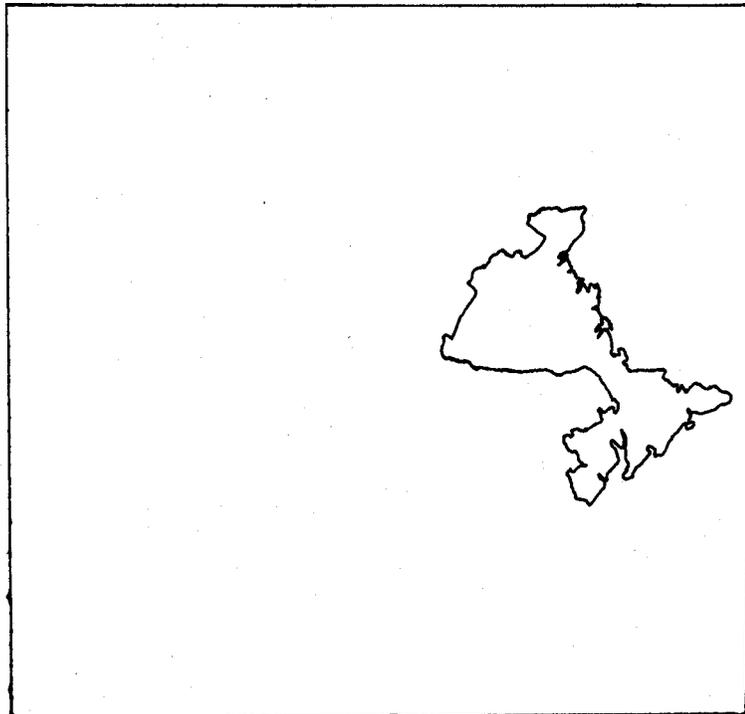


Figure 2: Subset - Planning Region.

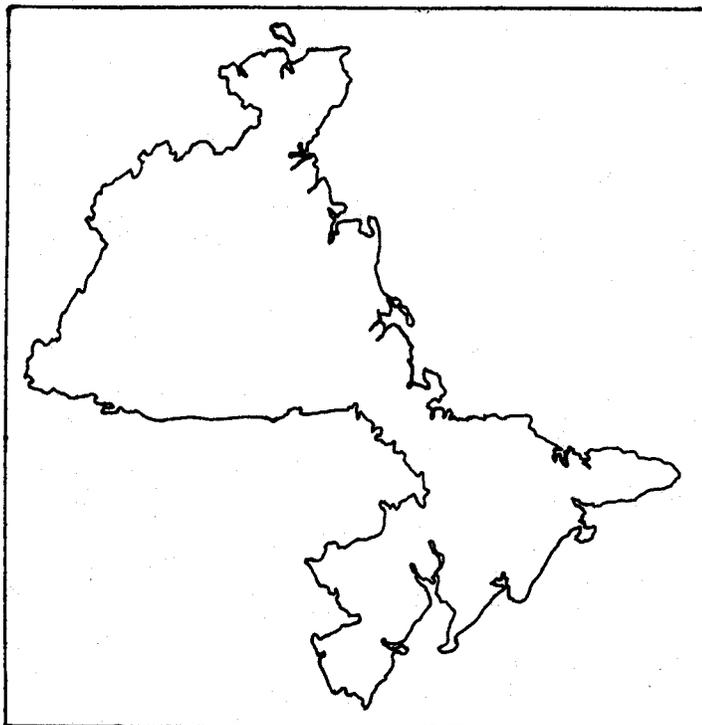


Figure 3: Enlargement of Subset

In analyzing the regions the boundaries of the parishes must be known. These are obtained by using the command

```
PL0 BOU = CNTTW
```

This results in the plot shown in Figure 4.

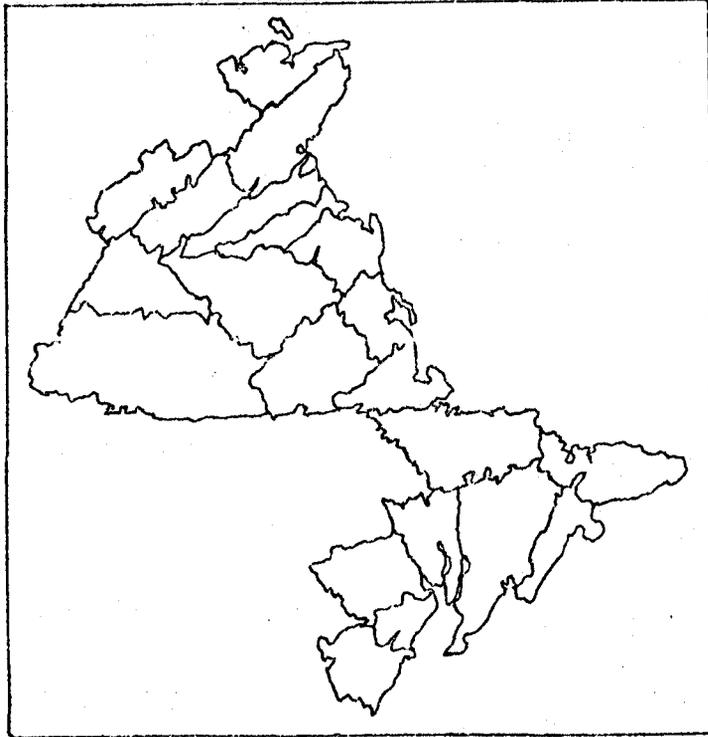


Figure 4: Parish Boundaries.

Selection 2

In this retrieval the objective is to determine the extent of arable land in the SE area of New Brunswick. The arable lands are those with CLI agricultural capability 2, 3, or 4. Selections of this type are

best performed by first setting up a selection table.

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
Arable Lands Agric. capability 2,3, or 4	AGRCL	2, 3, 4	CLI capability

The data can be retrieved using the SElect command of the IGSS. The command sequence is:

```
SEL
Variable to be selected
AGRCL
Values to be selected from AGRCL
2 3 4
```

The results are shown in Table 2 and are plotted in Figure 5.

```
ARABLE LAND IN S.E. N.B.
*** SELECTION 14 Jul. 17/81 Page 1 ***
Variable : PROUX-values selected: 13
Values      Acres      Hectares  %Selection  % Study
13          1,340,216.0  542,787.5  100.0       63.7
Variable : AGRCL-values selected: 334
Values      Acres      Hectares  %Selection  % Study
4           606,191.8   245,507.7  45.2        28.8
3           733,759.6   297,172.6  54.7        34.9
2            264.5      107.1      0.0         0.0
Total selected  1,340,216.0  542,787.5  63.7
Total land area  2,101,037.6  850,920.2
```

NOTE: Selection based on a predefined subset
Enter command: S



Figure 5: Arable Lands

In a similar manner the distribution of various land resources are desired. The selection table for each is given and the results of the retrieval.

Selection 3

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
Locate the cleared agric. land in SE New Brunswick	PLU68	APGHK	All agric. uses that involves clearing of land

Results

CLEARED LAND IN S.E. N.B.

***	SELECTION 10	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected: 13			
Values	Acres	Hectares	%Selection	% Study
13	343,039.6	138,931.0	100.0	16.3
Variable :	PLU68-values selected: 3PHKA			
Values	Acres	Hectares	%Selection	% Study
P	222,253.0	114,312.4	82.2	13.4
K	60,786.5	24,618.5	17.7	2.8
Total selected	343,039.6	138,931.0		16.3
Total land area	2,101,037.6	850,920.2		

NOTE: Selection based on a predefined subset
Enter command: S

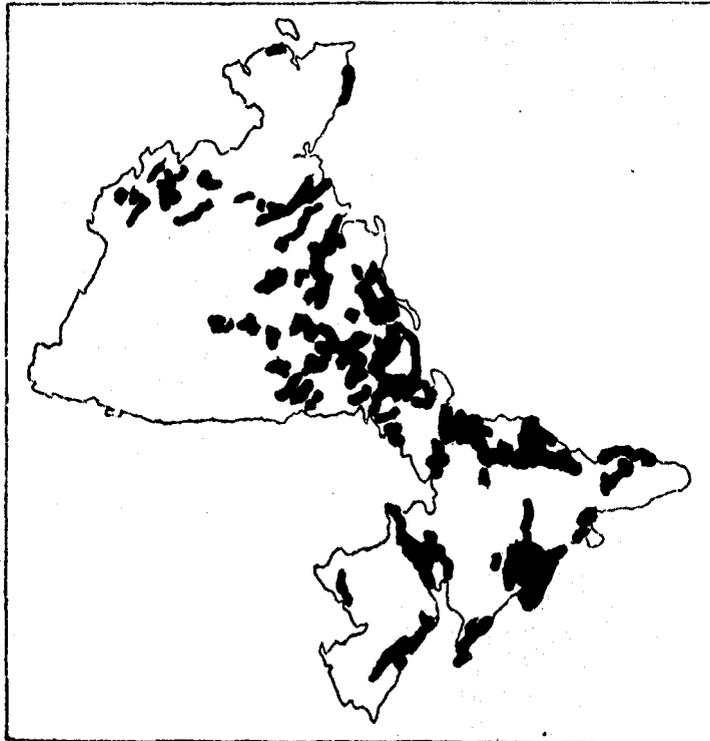


Figure 6: Cleared Lands.

Selection 4

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
Locate the improved agric. land	PLU68	APGH	Those agric. uses which require land improvement

Results

```
IMPROVED LAND IN S.E. N.B.
*** SELECTION S Jul. 17/81 Page 1 ***
Variable : PLOUX-values selected: 13
Values Acres Hectares %Selection % Study
13 282,253.0 114,312.4 100.0 13.4
Variable : PLU68-values selected: P:HA
Values Acres Hectares %Selection % Study
P 282,253.0 114,312.4 100.0 13.4
Total selected 282,253.0 114,312.4 13.4
Total land area 2,101,037.6 250,920.2
```

NOTE: Selection based on a predefined subset
Enter command: S

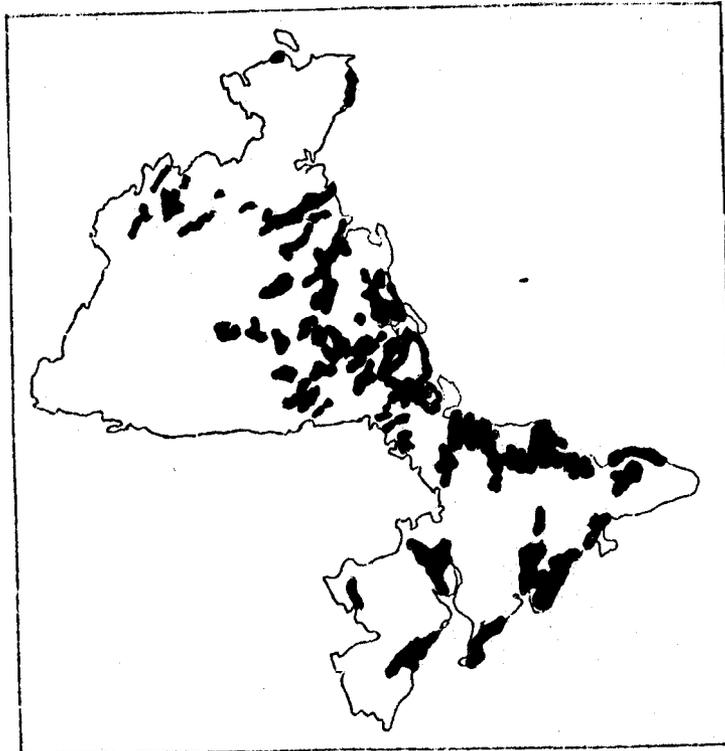


Figure 7: Improved Lands.

Selection 5

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
Locate the unimproved pasture	PLU68	K	Rough pasture

Results

```
UNIMPROVED PASTURE IN S.E.N.B.
*** SELECTION 3 Aug. 05/81 Page 1 ***
Variable : PROUX-values selected: 13
Values      Acres      Hectares  XSelection  % Study
13          60,786.5   24,618.5   100.0       2.8
Variable : PLU68-values selected: K
Values      Acres      Hectares  XSelection  % Study
K           60,786.5   24,618.5   100.0       2.8
Total selected      60,786.5   24,618.5
Total land area     2,101,037.6 850,920.2
***
```

NOTE: Selection based on a predefined subset
Enter command:

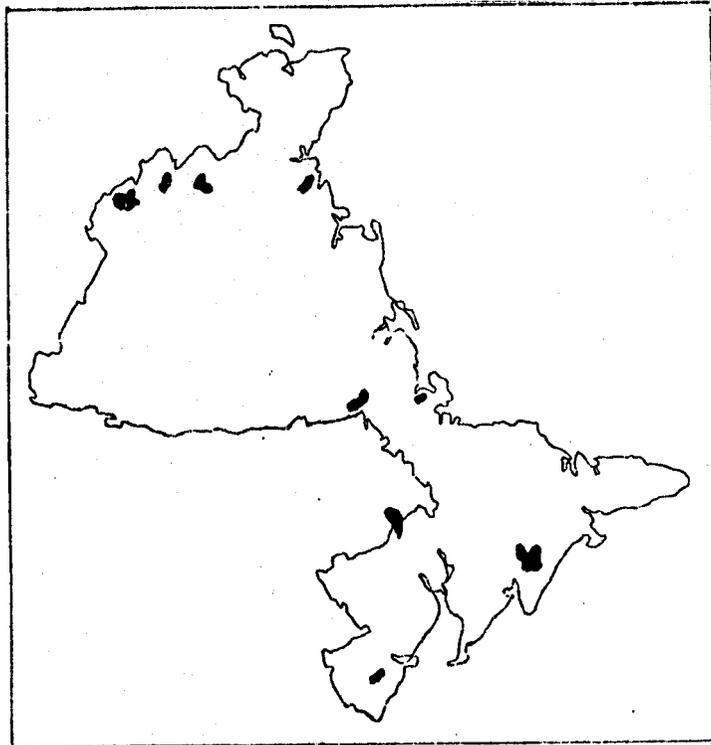


Figure 8: Rough Pasture.

Selection 6

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
Locate the urban land	PLU68	B	Urban built up

Results

```
*** SELECTION 12 URBAN LAND IN S.E.N.B. Jul. 17/81 Page 1 ***
Variable : PROUX-values selected: 13
Values Acres Hectares %Selection % Study
13 6,466.3 2,618.8 100.0 0.3
Variable : PLUS8-values selected: 1
Values Acres Hectares %Selection % Study
2 6,466.3 2,618.8 100.0 0.3
Total selected 6,466.3 2,618.8 0.3
Total land area 2,101,037.6 850,920.2
```

NOTE: Selection based on a predefined subset
Enter command: S

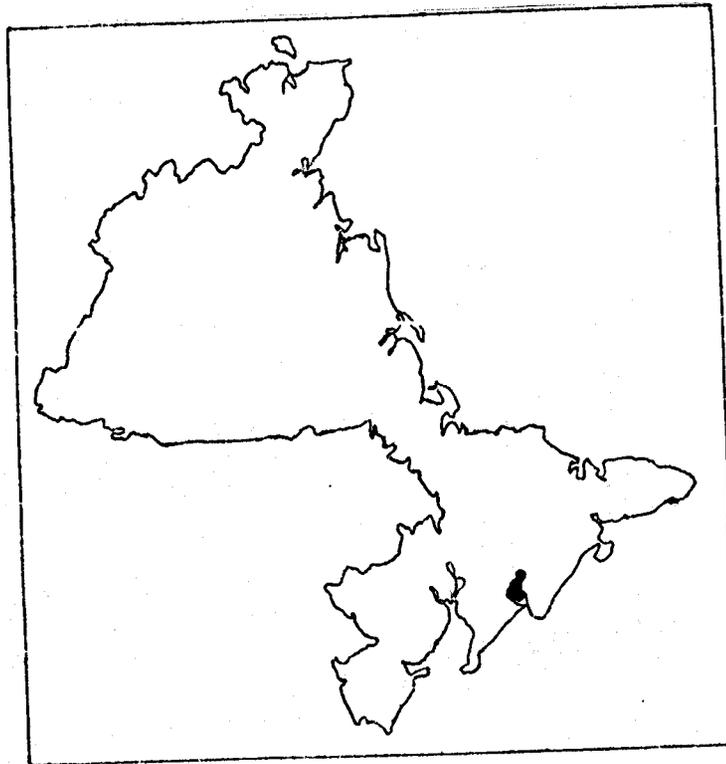


Figure 9: Urban Land.

Selection 7

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
Locate the wetlands	PLU68	M	Swamps, bogs, and marshes

Results

```
***      SELECTION 4      WETLAND IN S.E.N.B.      Page 1      ***
Variable : PROUX-values selected: 13      Aug. 05/81
Values      Acres      Hectares      %Selection      % Study
13      129,002.7      52,246.1      100.0      6.1
Variable : PLU68-values selected: M
Values      Acres      Hectares      %Selection      % Study
M      129,002.7      52,246.1      100.0      6.1
Total selected      129,002.7      52,246.1
Total land area      2,101,037.6      850,920.2      6.1
```

NOTE: Selection based on a predefined subset
Enter command:

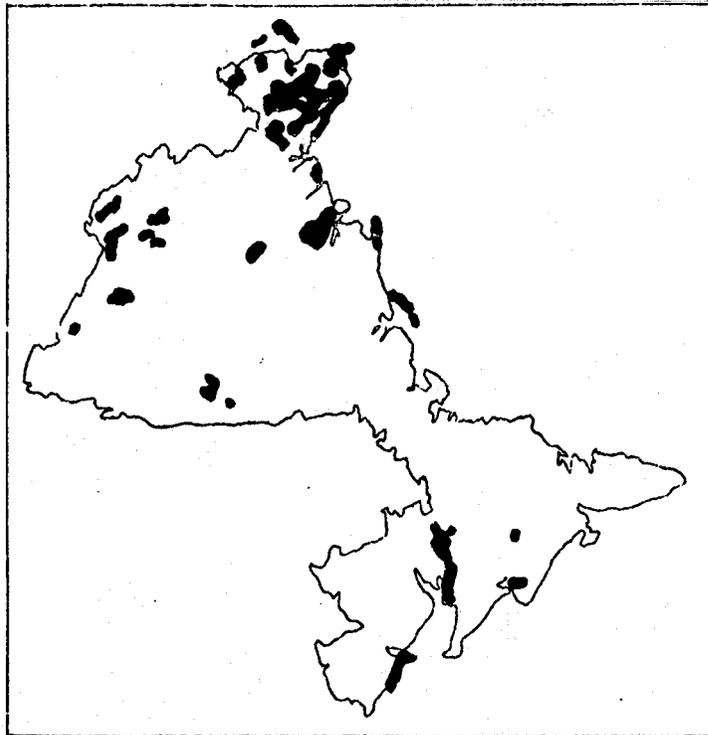


Figure 10: Wetlands.

Selection 8

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
Locate all productive woodland areas	PLU68	T	Productive woodland

Results

```
***          PRODUCTION WOODLAND IN S.E. N.B.          Page 1    ***
***          SELECTION 8          Jnl. 17/81
Variable : PRODN-values selected: 13
Values          Acres          Hectares    %Selection  % Study
13              1,153,663.9          467,233.8    100.0        54.9
Variable : PLU68-values selected: T
Values          Acres          Hectares    %Selection  % Study
T              1,153,663.9          467,233.8    100.0        54.9
Total selected  1,153,663.9          467,233.8
Total land area 2,101,037.6          850,920.2          54.9
```

NOTE: Selection based on a predefined subset
Enter command: 8



Figure 11: Productive Woodland.

Selection 9

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
Locate all unproductive woodland	PLU68	U	Unproductive woodland

Results

```
UNPRODUCTIVE WOODLAND IN S.E. N.B.
*** SELECTION 7 Jul 17/81 Page 1 ***
Variable : PFGUX-values selected: 13
Values      Acres      Hectares  %Selection  % Study
13          319,938.8  129,575.2  100.0       15.2
Variable : PLU68-values selected: U
Values      Acres      Hectares  %Selection  % Study
U           319,938.8  129,575.2  100.0       15.2
Total selected      319,938.8  129,575.2
Total land area    2,191,037.6  859,920.2
                                         15.2
```

NOTE: Selection based on a predefined subset
Enter command: S

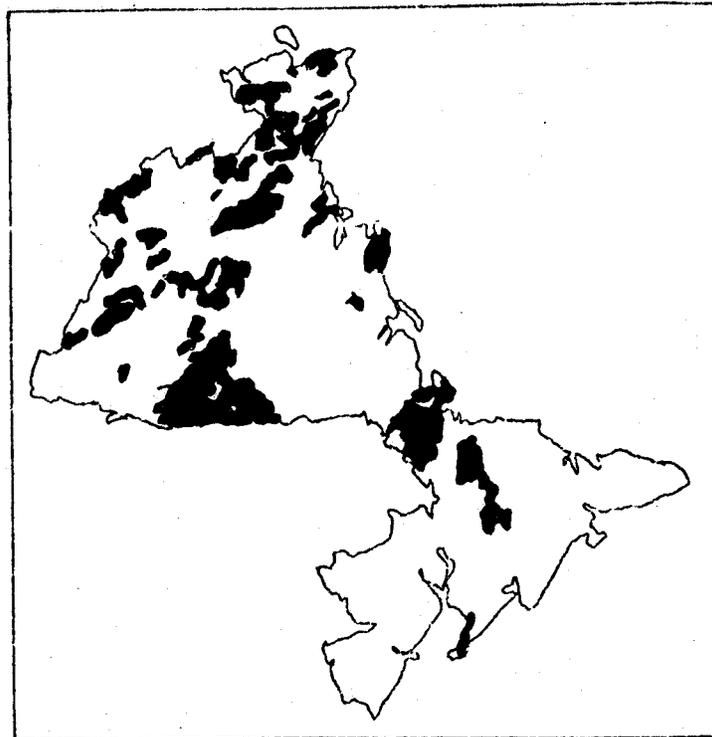


Figure 12: Unproductive Woodland

Selection 10

Selection Table

<u>Criteria</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
All arable land in an improved state	AGRCL PLU68	2 3 4 * A P G H	Arable Not in improved state

Results

RESIDUAL ARABLE LAND IN S.E.N.B. Page 1 ***

*** SELECTION 4 Jul. 17/81 ***

Variable : PLU68-values selected: *GHPA

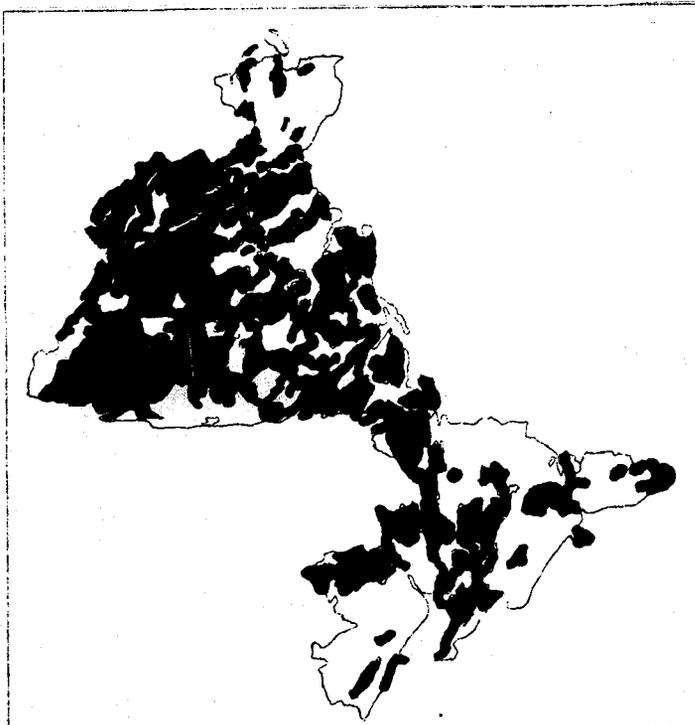
Values	Acres	Hectares	%Selection	% Study
M	30,503.9	12,354.1	2.7	1.4
T	807,720.2	327,126.6	73.6	38.4
U	201,244.6	81,504.0	18.3	9.5
K	47,582.4	19,270.8	4.3	2.2
G	4,844.3	1,961.9	0.4	0.2
B	4,551.7	1,843.4	0.4	0.2
L	174.0	70.4	0.0	0.0
N	74.7	30.2	0.0	0.0
E	229.9	93.1	0.0	0.0

Variable : AGRCL-values selected: 234

Values	Acres	Hectares	%Selection	% Study
3	583,950.6	228,404.0	51.4	26.8
4	532,792.8	215,781.1	42.5	25.3
2	172.6	69.9	0.0	0.0

Total selected 1,096,926.1 444,255.0 52.2

Total land area 2,101,037.6 850,920.2



Selection 11 - Land Use

As basic reference data the distribution of land use can be useful. This series of selections shows first the distribution throughout the planning region and then the distribution throughout each parish. The data is listed in tabular and graph form.

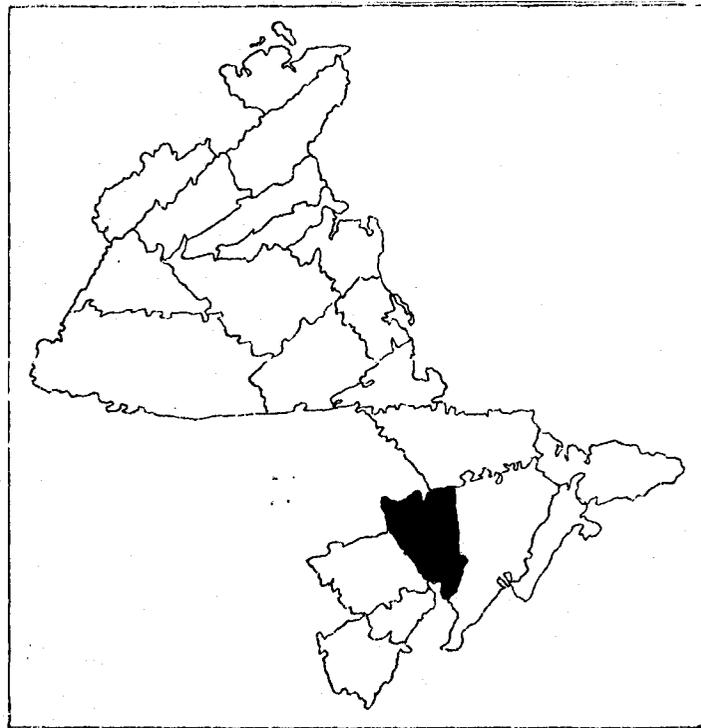
LAND USE IN S.E. N.B.				Page 1	xxx
***	SELECTION 5	Jul. 17/81			
Variable :	PROUX-values selected:	13			
Values	Acres	Hectares	%Selection	% Study	
13	1,955,700.1	792,058.5	100.0	93.0	
Variable :	PLUS3-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
T	1,153,663.9	467,233.8	58.9	54.9	
O	227.1	118.3	0.0	0.0	
M	129,002.7	52,245.1	6.5	6.1	
L	319,932.8	129,575.2	16.3	15.2	
P	282,253.0	114,212.4	14.4	13.4	
V	50,786.5	24,618.5	3.1	2.8	
B	6,466.3	2,618.8	0.3	0.3	
L	2,733.3	1,107.2	0.1	0.1	
Z	175.2	70.9	0.0	0.0	
E	392.3	158.0	0.0	0.0	
Total selected	1,955,700.1	792,058.5		93.0	
Total land area	2,101,037.6	850,920.2			

NOTE: Selection based on a predefined subset
Enter command: S

Selection 12 - Dorchester Parish

***	SELECTION 23	07004	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected:	13			
Value	Acres	Hectares	%Selection	% Study	
13	72,722.3	29,476.8	100.0	3.4	
Variable :	CNTTU-values selected:	07024			
Value	Acres	Hectares	%Selection	% Study	
07004	72,722.3	29,476.8	100.0	3.4	
Variable :	PLUS8-values selected:	All values			
Value	Acres	Hectares	%Selection	% Study	
T	39,707.3	16,081.4	54.5	1.8	
K	7,453.1	3,020.5	10.2	0.3	
P	16,870.1	6,832.4	23.1	0.8	
B	421.8	174.9	0.5	0.0	
U	4,243.3	1,712.5	5.8	0.2	
M	4,071.4	1,643.9	5.5	0.1	
Variable :	ACRCL-values selected:	All values			
Value	Acres	Hectares	%Selection	% Study	
7	6,310.2	2,555.6	3.6	0.1	
3	39,592.0	16,022.6	54.3	1.8	
4	17,337.0	7,021.5	23.8	0.8	
5	9,573.0	3,877.0	13.1	0.4	
Total selected	72,722.3	29,476.8		3.4	
Total land area	2,101,037.6	350,920.2			

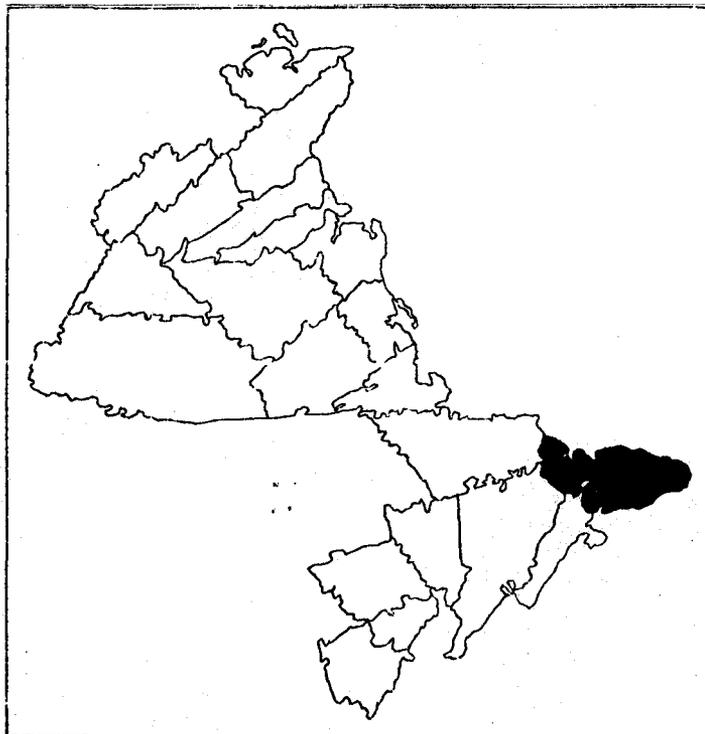
NOTE: Selection based on a predefined subset
Enter command:



Selection 13 - Botsford Parish

***	SELECTION 28	07006	Page 1	***
Variable :	PROUX-values selected:	13	Jul. 17/81	
Values	Acres	Hectares	%Selection	% Study
13	101,086.3	40,939.9	100.0	4.8
Variable :	CNTTU-values selected:	07006		
Values	Acres	Hectares	%Selection	% Study
07006	101,086.3	40,939.9	100.0	4.8
Variable :	PLU68-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
O	287.1	116.3	0.2	0.0
T	56,632.0	22,935.9	56.0	2.6
P	27,828.8	11,294.9	27.5	1.3
B	325.2	135.7	0.3	0.0
K	8,960.5	3,629.0	8.8	0.4
H	2,297.5	930.5	2.2	0.1
U	4,653.3	1,834.5	4.6	0.2
Z	31.4	12.7	0.0	0.0
Variable :	AGRCL-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
4	5,364.2	2,172.5	5.3	0.2
7	1,503.1	608.7	1.4	0.0
3	46,736.4	18,928.2	46.2	2.2
5	47,482.4	19,230.3	46.9	2.2
Total selected	101,086.3	40,939.9		4.8
Total land area	2,101,037.6	850,920.2		

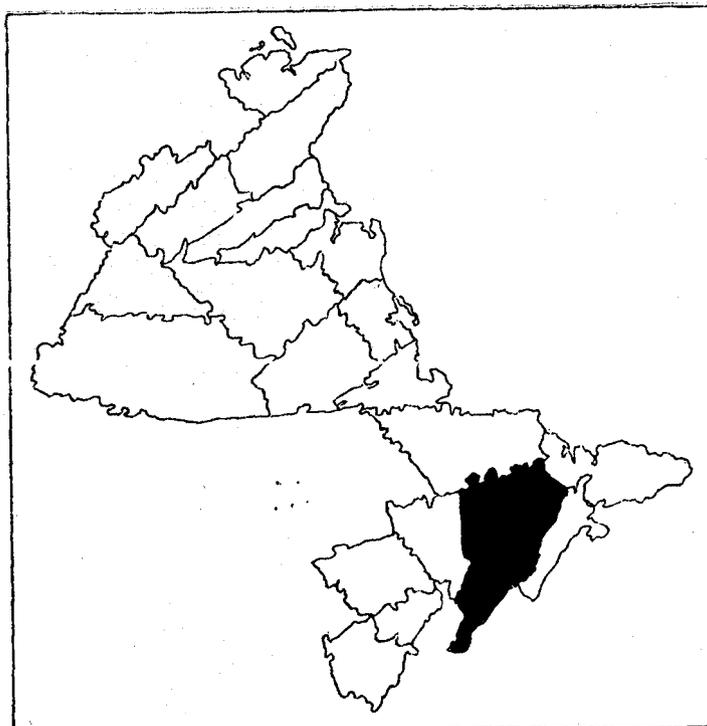
NOTE: Selection based on a predefined subset
Enter command:



Selection 14 - Sackville Parish

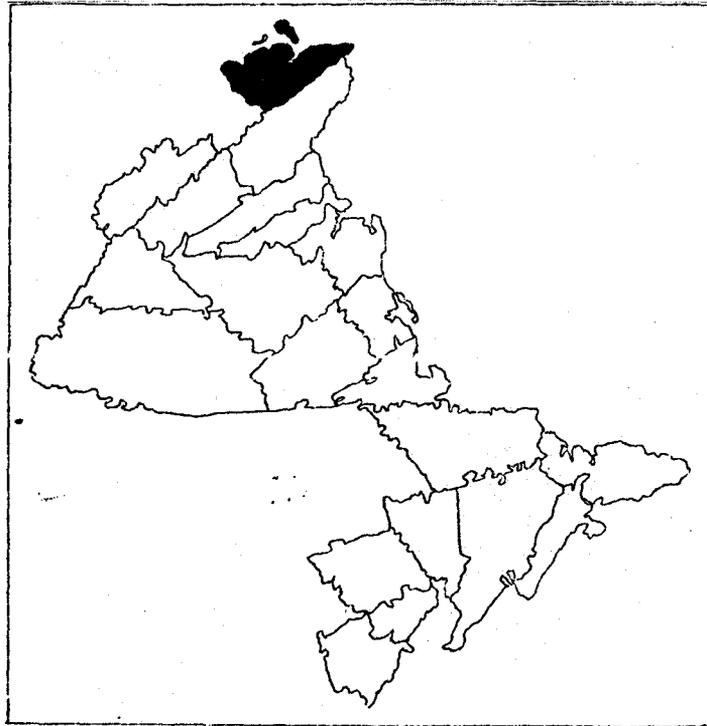
***	SELECTION 27	07005	Page 1	***
Variable :	PROGX-values selected: 13	Jul. 17/81		
Values	Acres	Hectares	%Selection	% Study
13	161,813.0	65,534.3	100.0	7.7
Variable :	CNTTU-values selected: 07005			
Values	Acres	Hectares	%Selection	% Study
07005	161,813.0	65,534.3	100.0	7.7
Variable :	PLUG8-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
T	109,939.5	44,525.5	67.9	5.2
K	4,456.6	1,804.9	2.7	0.2
P	20,331.6	8,234.3	12.5	0.9
U	20,724.0	8,393.2	12.8	0.9
M	5,403.0	2,188.2	3.3	0.2
R	947.5	383.7	0.5	0.0
E	10.5	4.2	0.0	0.0
Variable :	AGRCL-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
3	66,521.5	26,941.2	41.1	3.1
5	57,630.6	23,340.4	35.6	2.7
7	5,617.5	2,275.0	3.4	0.2
4	31,244.1	12,653.8	19.3	1.4
0	799.1	323.6	0.4	0.0
Total selected	161,813.0	65,534.3		7.7
Total land area	2,101,037.6	850,920.2		

NOTE: Selection based on a predefined subset
Enter command:



Selection 15 - Hardwicke Parish

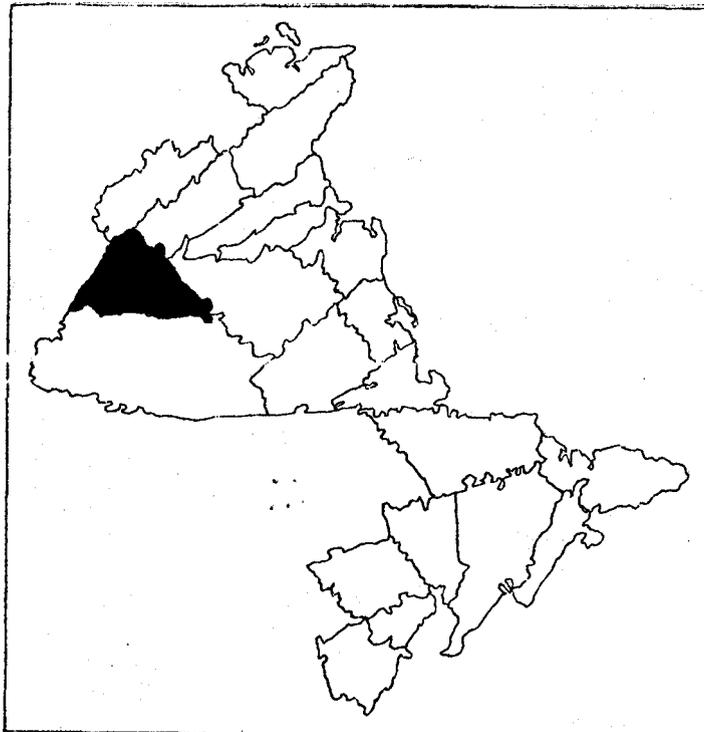
***	SELECTION 41	09007	Page 1	***
Variable :	PROUX-values selected: 13	Jul. 17/81		
Values	Acres	Hectares	%Selection	% Study
13	70,918.3	28,721.9	100.0	3.3
Variable :	CNTTU-values selected: 03007			
Values	Acres	Hectares	%Selection	% Study
09007	70,918.3	28,721.9	100.0	2.3
Variable :	PLUG8-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
T	28,310.6	11,465.7	39.9	1.3
M	22,148.9	8,970.3	31.2	1.0
U	13,905.0	5,631.5	19.6	0.6
B	366.7	148.5	0.5	0.0
K	335.4	135.8	0.4	0.0
P	5,481.2	2,219.9	7.7	0.2
L	302.9	122.7	0.4	0.0
Z	67.3	27.2	0.0	0.0
Variable :	AGRCL-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
4	17,542.5	7,104.7	24.7	0.8
0	15,044.8	6,093.1	21.2	0.7
7	24,192.9	9,798.1	34.1	1.1
5	10,373.5	4,201.2	14.6	0.4
6	311.0	125.9	0.4	0.0
3	3,453.4	1,398.6	4.8	0.1



Selection 16 - Huskisson Parish

***	SELECTION 36	08007	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected:	13			
Values	Acres	Hectares	%Selection	% Study	
13	93,589.3	37,903.6	100.0	4.4	
Variable :	CNTTW-values selected:	08007			
Values	Acres	Hectares	%Selection	% Study	
08007	93,589.3	37,903.6	100.0	4.4	
Variable :	FLUG8-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
T	65,699.4	26,608.2	70.1	3.1	
M	8,940.3	3,620.8	9.5	0.4	
U	18,502.3	7,525.8	19.8	0.3	
F	159.3	60.3	0.1	0.0	
K	217.0	87.8	0.2	0.0	
Variable :	AGRCL-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
3	39,491.5	12,349.0	32.5	1.4	
4	42,132.4	17,063.6	45.0	2.0	
7	9,469.2	3,335.0	10.1	0.4	
0	7,594.1	3,075.6	8.1	0.3	
5	3,901.9	1,580.2	4.1	0.1	
Total selected	93,589.3	37,903.6		4.4	
Total land area	2,101,037.6	850,920.2			

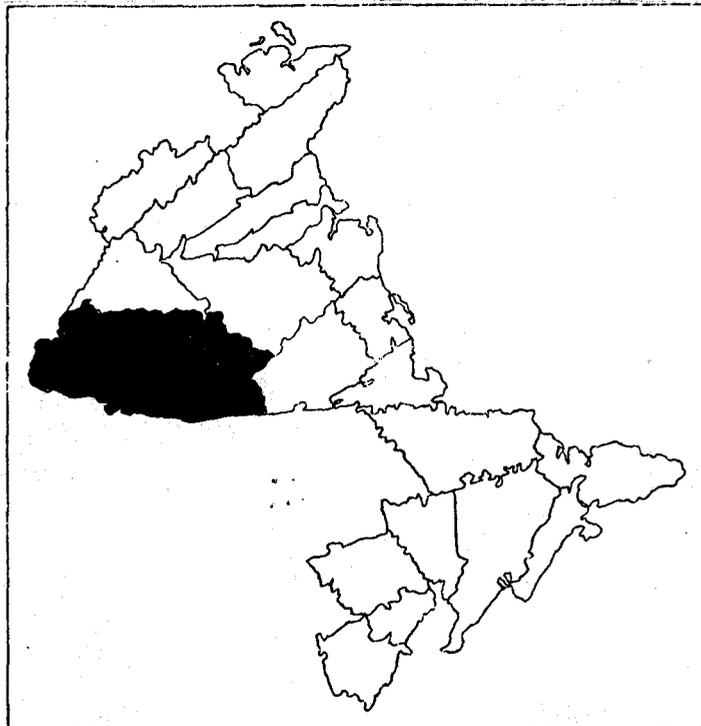
NOTE: Selection based on a predefined subset
Enter command:



Selection 17 - Harcourt Parish

***	SELECTION 37	08003	Page 1	***
Variable :	PROUX-values selected: 13	Jul. 17/81		
Values	Acres	Hectares	%Selection	% Study
13	287,142.1	116,292.5	100.0	13.6
Variable :	CNTTW-values selected: 08008			
Values	Acres	Hectares	%Selection	% Study
08008	287,142.1	116,292.5	100.0	13.6
Variable :	PLU62-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
T	179,288.1	72,579.2	62.4	8.5
U	98,175.9	36,521.2	31.4	4.2
M	13,437.1	5,442.0	4.6	0.6
P	3,100.4	1,255.6	1.0	0.1
K	1,220.4	494.2	0.4	0.0
Variable :	AGRCL-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
3	104,070.7	42,148.6	36.2	4.9
7	69,843.6	28,286.6	24.3	3.3
4	102,937.5	41,689.6	35.8	4.8
0	8,955.1	3,626.8	3.1	0.4
5	1,334.9	540.6	0.4	0.0
Total selected	287,142.1	116,292.5		13.6
Total land area	2,101,037.6	850,920.2		

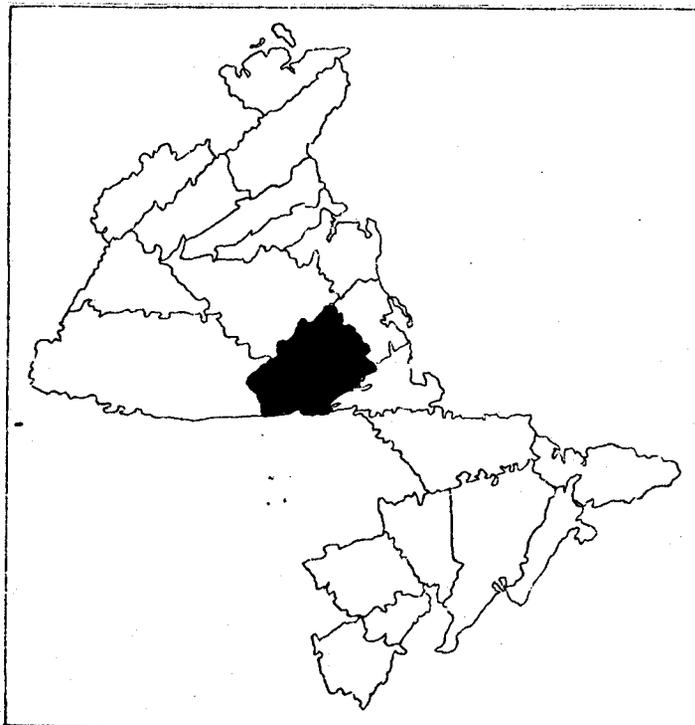
NOTE: Selection based on a predefined subset
Enter command:



Selection 18 - St. Paul

***	SELECTION 38	00009	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected:	13			
Values	Acres	Hectares	%Selection	% Study	
13	114,997.8	46,574.1	100.0	5.4	
Variable :	CNTTW-values selected:	08009			
Values	Acres	Hectares	%Selection	% Study	
08009	114,997.8	46,574.1	100.0	5.4	
Variable :	PLU68-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
T	75,412.1	30,541.9	65.5	3.5	
K	1,534.4	621.4	1.3	0.0	
P	32,296.3	12,820.9	28.0	1.5	
U	2,744.5	1,111.5	2.3	0.1	
R	223.7	90.6	0.1	0.0	
M	2,786.5	1,128.5	2.4	0.1	
Variable :	AGRCL-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
4	61,474.3	24,897.1	53.4	2.3	
3	45,179.4	18,297.6	39.2	2.1	
7	7,288.1	2,951.7	6.3	0.3	
0	715.6	289.8	0.6	0.0	
5	340.2	137.7	0.2	0.0	
Total selected	114,997.8	46,574.1		5.4	
Total land area	2,101,037.6	850,920.2			

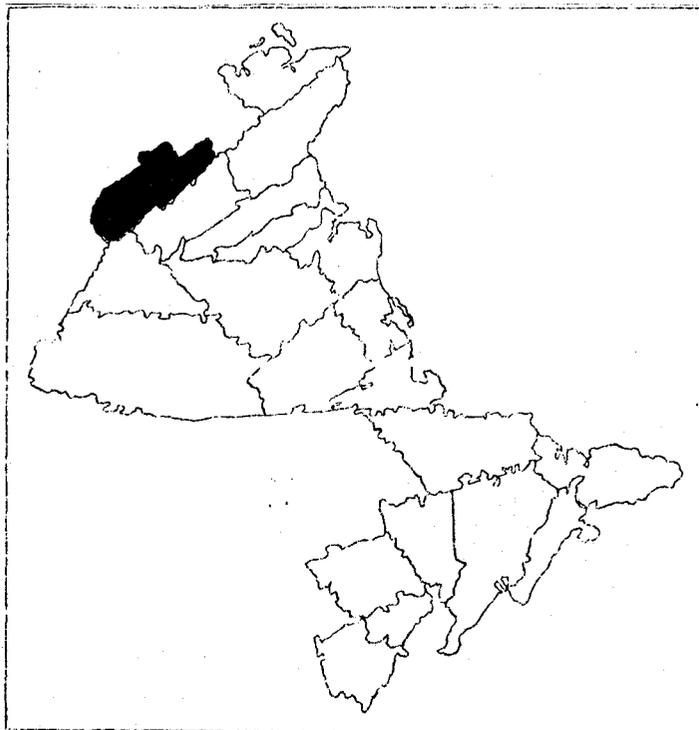
NOTE: Selection based on a predefined subset
Enter command:



Selection 19 - Rogersville Parish

xxx	SELECTION 42	09013	Page 1	xxx
Variable :	PROUX-values selected: 13	Jul. 17/81		
Values	Acres	Hectares	%Selection	% Study
13	83,296.0	33,734.9	100.0	3.9
Variable :	CNTTW-values selected: 09013			
Values	Acres	Hectares	%Selection	% Study
09013	83,296.0	33,734.9	100.0	3.9
Variable :	PLU68-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
M	5,173.7	2,095.3	6.2	0.2
T	45,300.5	18,346.7	54.3	2.1
U	20,370.5	8,250.0	24.4	0.9
B	159.5	64.6	0.1	0.0
K	4,808.0	1,947.6	5.7	0.2
P	7,482.6	3,030.4	8.9	0.3
Variable :	AGRCL-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
0	4,488.9	1,818.0	5.3	0.2
4	35,287.5	14,231.4	42.3	1.6
3	42,422.1	17,190.9	50.9	2.0
7	665.9	245.3	0.7	0.0
5	491.4	199.0	0.5	0.0
Total selected	83,296.0	33,734.9		3.9
Total land area	2,101,037.6	850,920.2		

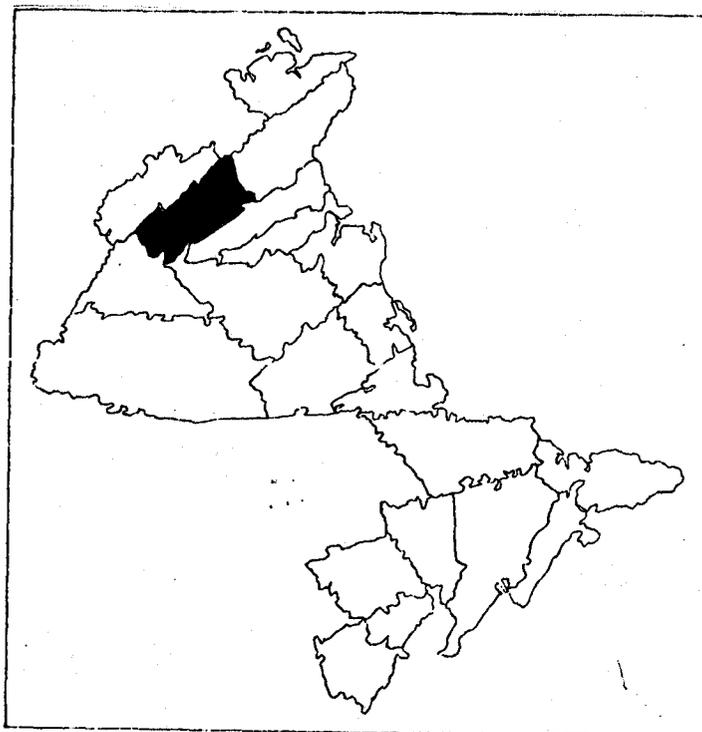
NOTE: Selection based on a predefined subset
Enter command:



Selection 20 - Acadieville Parish

***	SELECTION 31	08032	Page	1	***
Variable :	PROVX-values selected: 13	Jul. 17/81			
Values	Acres	Hectares	%Selection	% Study	
13	79,087.8	32,030.5	100.0	3.7	
Variable :	CNTTM-values selected: 08032				
Values	Acres	Hectares	%Selection	% Study	
08032	79,087.8	32,030.5	100.0	3.7	
Variable :	PLUG8-values selected: All values				
Values	Acres	Hectares	%Selection	% Study	
K	2,899.6	1,092.1	3.4	0.1	
P	5,564.2	2,261.3	7.0	0.2	
T	50,534.1	20,486.5	63.9	2.4	
M	4,674.1	1,893.0	5.9	0.2	
U	15,548.7	6,257.2	18.0	0.7	
Variable :	ACRCL-values selected: All values				
Values	Acres	Hectares	%Selection	% Study	
3	48,468.9	19,629.5	61.2	2.3	
4	23,752.8	9,619.8	30.0	1.1	
0	3,011.3	1,219.5	3.8	0.1	
7	3,805.6	1,541.2	4.8	0.1	
5	50.0	20.2	0.0	0.0	
Total selected	79,087.8	32,030.5		3.7	
Total land area	2,101,037.6	850,920.2			

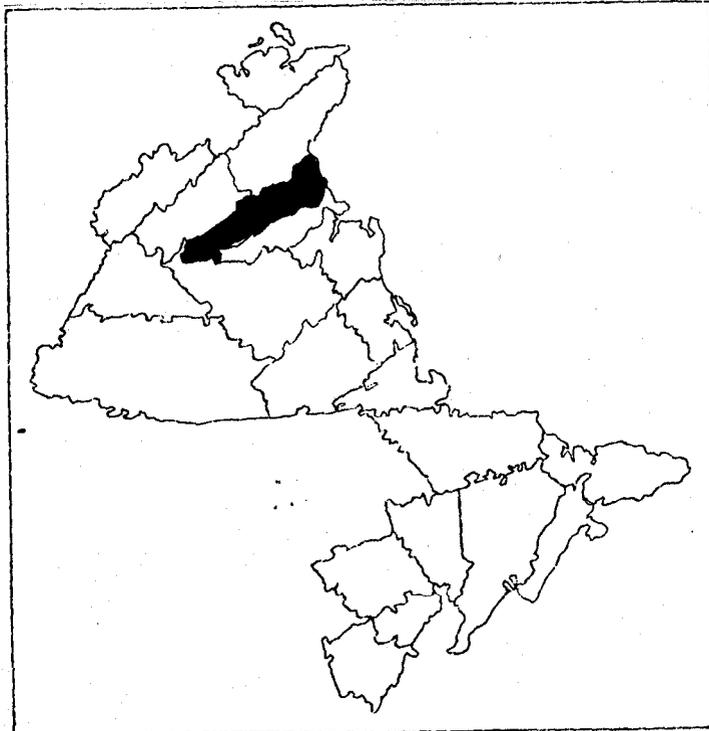
NOTE: Selection based on a predefined subset
Enter command:



Selection 21 - St. Louis Parish

***	SELECTION 32	08003	Page 1	***
Variable :	PROUX-values selected: 13	Jul. 17/81		
Values	Acres	Hectares	%Selection	% Study
13	64,936.0	26,299.0	100.0	3.0
Variable :	CNTTW-values selected: 08003			
Values	Acres	Hectares	%Selection	% Study
08003	64,936.0	26,299.0	100.0	3.0
Variable :	PLUS3-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
L	320.2	129.6	0.4	0.0
M	3,058.3	1,311.7	4.9	0.1
T	35,261.2	14,230.7	54.3	1.6
P	9,241.4	3,904.7	14.8	0.4
U	13,466.3	5,453.8	20.7	0.6
E	219.5	88.9	0.3	0.0
K	2,788.2	1,129.2	4.2	0.1
Variable :	AGRCL-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
7	6,316.8	2,552.3	9.7	0.3
0	1,671.3	676.8	2.5	0.0
5	4,073.2	1,651.6	6.2	0.1
3	25,817.3	10,861.0	41.2	1.2
4	25,893.1	10,405.7	39.5	1.2
6	359.1	145.4	0.5	0.0
Total selected	64,936.0	26,299.0		3.0
Total land area	2,101,037.6	850,320.2		

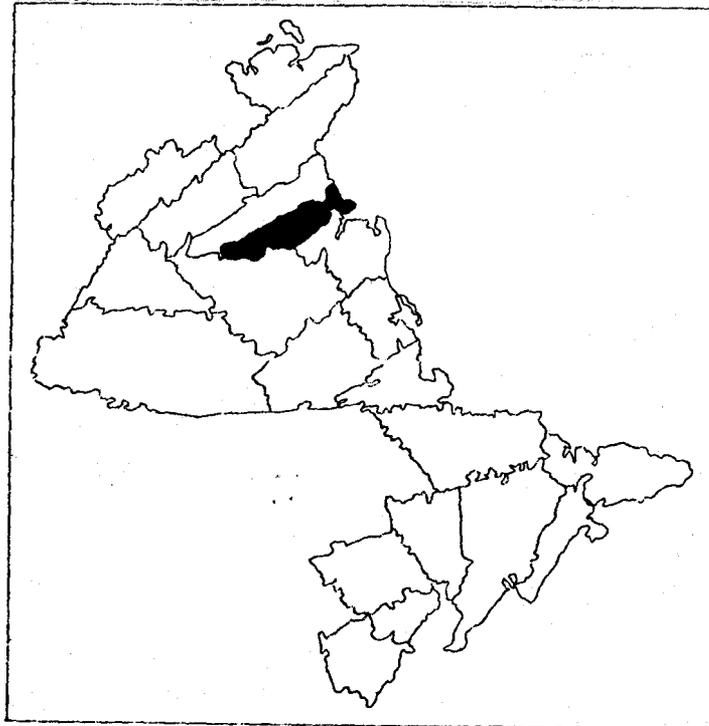
NOTE: Selection based on a predefined subset
Enter command:



Selection 22 - St. Charles Parish

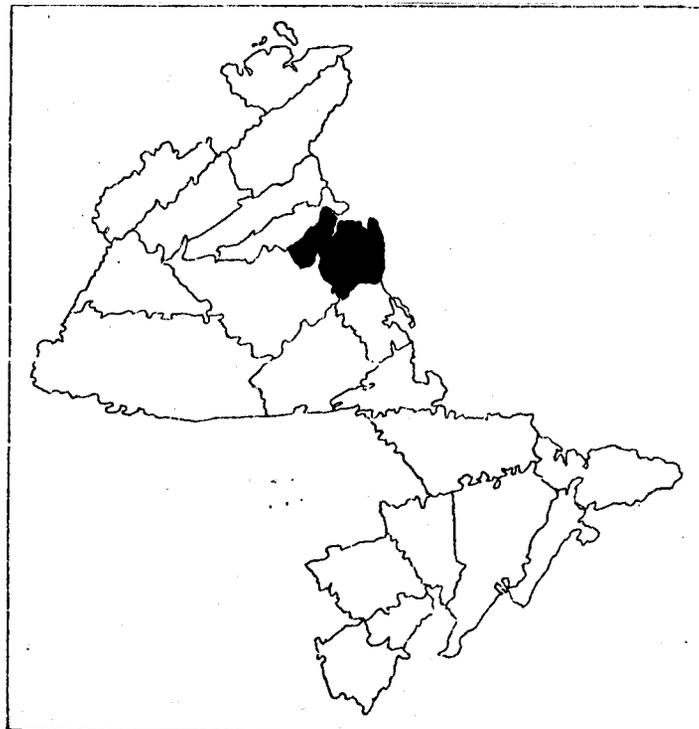
***	SELECTION 33	08001	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected:	13			
Values	Acres		Hectares	%Selection	% Study
13	43,665.0		17,684.3	100.0	2.0
Variable :	CNTTW-values selected:	08004			
Values	Acres		Hectares	%Selection	% Study
08004	43,665.0		17,684.3	100.0	2.0
Variable :	PLUS8-values selected:	All values			
Values	Acres		Hectares	%Selection	% Study
P	7,470.4		3,025.5	17.1	0.3
T	24,922.1		10,093.4	57.0	1.1
U	5,255.0		2,123.2	12.0	0.2
K	94.0		38.0	0.2	0.0
L	450.0		182.2	1.0	0.0
M	5,399.7		2,186.8	12.3	0.2
8	73.5		29.8	0.1	0.0
Variable :	AGROL-values selected:	All values			
Values	Acres		Hectares	%Selection	% Study
4	9,534.7		3,861.5	21.8	0.4
7	2,693.6		1,090.9	6.1	0.1
0	3,787.8		1,525.9	8.6	0.1
3	13,718.9		5,555.3	31.4	0.6
5	13,480.7		5,459.6	30.8	0.6
6	471.2		190.8	1.0	0.0
Total selected	43,665.0		17,684.3		2.0
Total land area	2,101,037.6		850,920.2		

NOTE: Selection based on a predefined subset
Enter command:



Selection 23 - Richibucto Parish

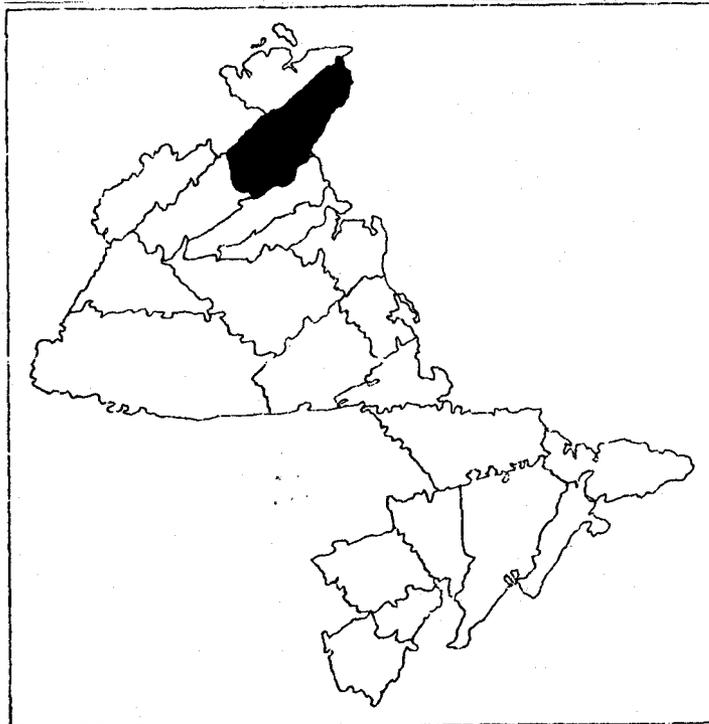
		08005		
***	SELECTION 34	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected:	13		
Values	Acres	Hectares	%Selection	% Study
13	67,340.3	27,272.8	100.0	3.2
Variable :	CNTTU-values selected:	08005		
Values	Acres	Hectares	%Selection	% Study
08005	67,340.3	27,272.8	100.0	3.2
Variable :	PLUS8-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
K	2,635.0	1,067.1	3.9	0.1
P	10,161.3	4,115.3	15.0	0.4
U	11,260.1	4,560.3	16.7	0.5
M	7,465.3	3,023.4	11.0	0.3
T	34,664.2	14,039.0	51.4	1.6
Z	32.9	13.3	0.0	0.0
L	713.9	289.1	1.0	0.0
B	407.2	164.9	0.6	0.0
Variable :	AGRCL-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
A	39,509.0	13,571.5	49.7	1.5
S	6,879.9	2,736.3	10.2	0.3
O	5,506.5	2,230.1	3.1	0.2
G	17,143.7	6,943.2	25.4	0.8
V	1,091.0	441.2	1.6	0.0
Y	3,184.4	1,289.7	4.7	0.1
E	24.5	9.9	0.0	0.0



Selection 24 - Carleton Parish

***	SELECTION 30	08001	Page 1	***
Variable :	PROVK-values selected:	13	Jul. 17/81	
Values	Acres	Hectares	%Selection	% Study
13	109,446.7	44,325.9	100.0	5.2
Variable :	CNTTW-values selected:	08001		
Values	Acres	Hectares	%Selection	% Study
08001	109,446.7	44,325.9	100.0	5.2
Variable :	FLUG8-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
L	946.6	323.3	0.8	0.6
T	33,432.3	15,999.3	36.0	1.8
M	31,939.1	12,925.3	29.1	1.5
P	3,325.0	1,333.5	3.0	0.1
U	33,756.7	13,671.4	30.3	1.6
K	16.6	6.7	0.0	0.0
Variable :	AGRCL-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
4	28,213.1	11,426.3	25.7	1.3
7	39,922.7	18,168.7	35.4	1.9
0	25,945.0	10,507.7	23.7	1.2
3	11,810.6	4,823.7	10.8	0.5
5	3,014.2	1,220.7	2.7	0.1
6	441.0	178.6	0.4	0.0
Total selected	109,446.7	44,325.9		5.2
Total land area	2,101,037.6	850,920.2		

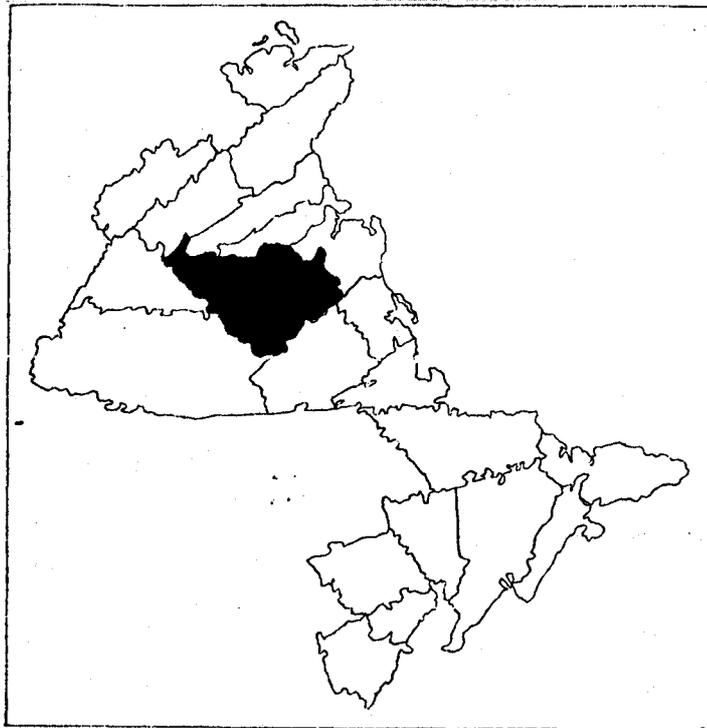
NOTE: Selection based on a predefined subset
Enter command:



Selection 25 - Weldford Parish

***	SELECTION 35	03036	Page 1	***
Variable :	PROUX-values selected:	13	Jul. 17/81	
Values	Acres	Hectares	%Selection	% Study
12	151,469.9	61,345.3	100.0	7.2
Variable :	CNTTU-values selected:	08306		
Values	Acres	Hectares	%Selection	% Study
08306	151,469.9	61,345.3	100.0	7.2
Variable :	PLUGB-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
T	103,507.0	41,920.3	68.3	4.9
U	18,319.6	7,431.6	12.1	0.8
H	283.7	114.9	0.1	0.0
B	224.1	115.0	0.1	0.0
P	26,275.3	10,641.5	17.3	1.2
K	2,759.9	1,121.8	1.8	0.1
Variable :	AGRCL-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
3	82,566.6	33,439.5	54.5	3.9
4	45,903.9	18,593.1	30.3	2.1
7	3,012.3	1,219.9	1.9	0.1
5	19,981.9	8,092.7	13.1	0.9
Total selected	151,469.9	61,345.3		7.2
Total land area	2,161,037.6	850,920.2		

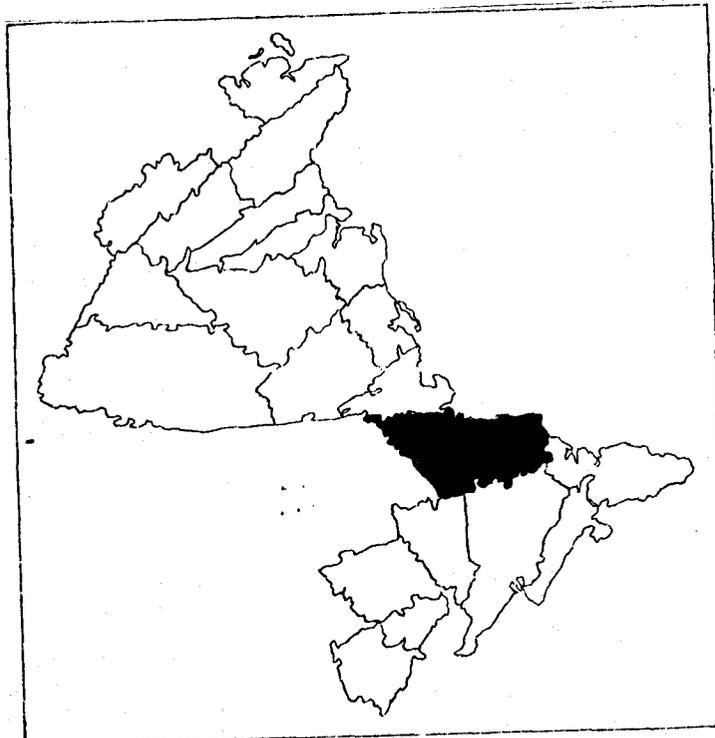
NOTE: Selection based on a predefined subset
Enter command:



Selection 26 - Shediac Parish

Variable	Values	Acres	Hectares	%Selection	% Study
SELECTION 25	13	116,221.0	47,069.5	100.0	5.5
Variable : FROUX-values selected:	07003	116,221.0	47,069.5	100.0	5.5
Variable : CNTM-values selected:	All values	7,781.9	3,151.6	6.6	0.3
Variable : PLUSB-values selected:	All values	44,148.3	17,800.2	37.9	2.1
Variable : AGRCL-values selected:	All values	1,775.0	718.9	1.5	0.0
		25,452.2	10,308.1	21.8	1.2
		34,968.3	14,137.9	30.0	1.6
		2,154.4	872.5	1.8	0.1
		620.4	255.3	0.5	0.0
		55,981.2	22,650.2	48.1	2.6
		27,676.1	11,202.8	23.8	1.3
		29,436.6	11,921.8	25.3	1.4
		2,334.0	945.2	2.0	0.1
		192.6	73.6	0.1	0.0
Total selected		116,221.0	47,069.5		5.5
Total land area		2,101,037.6	850,920.2		

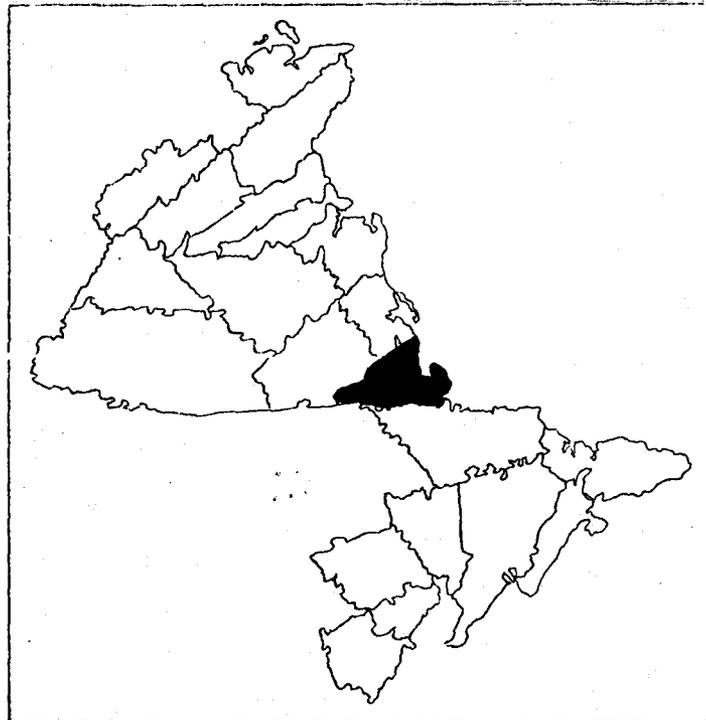
NOTE: Selection based on a predefined subset
Enter command:



Selection 27 - Dundas Parish

***	SELECTION 40	03011	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected: 13				
Values	Acres	Hectares	%Selection	% Study	
13	57,229.7	23,178.0	100.0	2.7	
Variable :	CNTTW-values selected: 32011				
Values	Acres	Hectares	%Selection	% Study	
02011	57,229.7	23,178.0	100.0	2.7	
Variable :	PLUS8-values selected: All values				
Values	Acres	Hectares	%Selection	% Study	
K	4,259.5	1,725.0	7.4	0.2	
M	432.8	175.2	0.7	0.0	
P	21,067.1	8,532.2	36.8	1.0	
T	25,300.4	10,246.6	44.2	1.2	
U	6,169.8	2,498.7	10.7	0.2	
B	0.0	0.0	0.0	0.0	
Variable :	AGRCL-values selected: All values				
Values	Acres	Hectares	%Selection	% Study	
4	31,449.9	12,737.2	54.9	1.4	
3	25,121.3	10,198.4	44.0	1.1	
7	592.3	242.3	1.0	0.0	
Total selected	57,229.7	23,178.0		2.7	
Total land area	2,101,037.6	850,920.2			

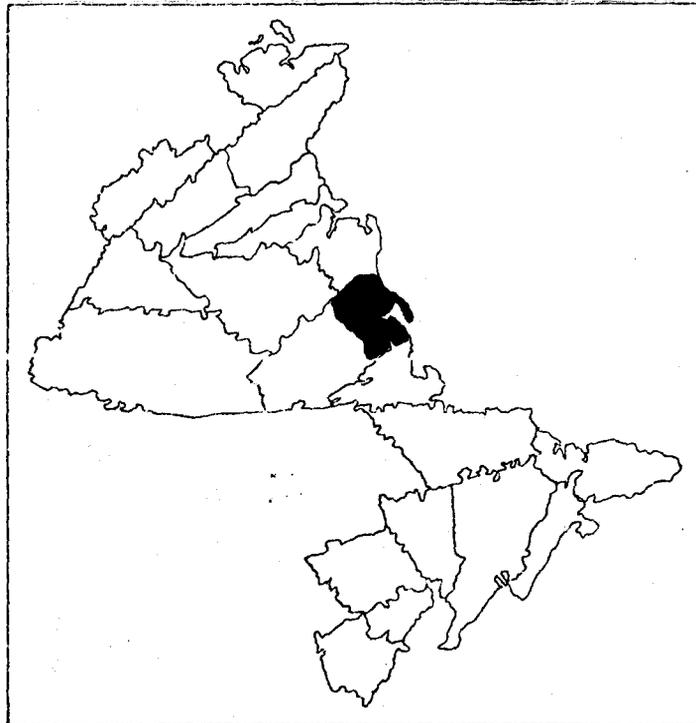
NOTE: Selection based on a predefined subset
Enter command:



Selection 28 - Wellington Parish

***	SELECTION 39	08010	Page 1	***
Variable :	PROUX-values selected: 13	Jul. 17/81		
Values	Acres	Hectares	%Selection	% Study
13	53,649.2	21,727.9	100.0	2.5
Variable :	CNTTU-values selected: 08010			
Values	Acres	Hectares	%Selection	% Study
08010	53,649.2	21,727.9	100.0	2.5
Variable :	PLU68-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
P	26,749.3	10,833.4	49.8	1.2
T	23,634.8	9,572.1	44.0	1.1
B	285.7	115.7	0.5	0.0
U	1,234.9	500.1	2.3	0.0
K	633.9	256.7	1.1	0.0
N	1,110.4	449.7	2.0	0.0
Variable :	AGRCL-values selected: All values			
Values	Acres	Hectares	%Selection	% Study
3	29,522.7	11,981.0	55.1	1.4
4	21,846.5	8,888.3	40.9	1.0
7	2,119.8	853.5	3.8	0.1
Total selected	53,649.2	21,727.9		2.5
Total land area	2,101,037.6	850,920.2		

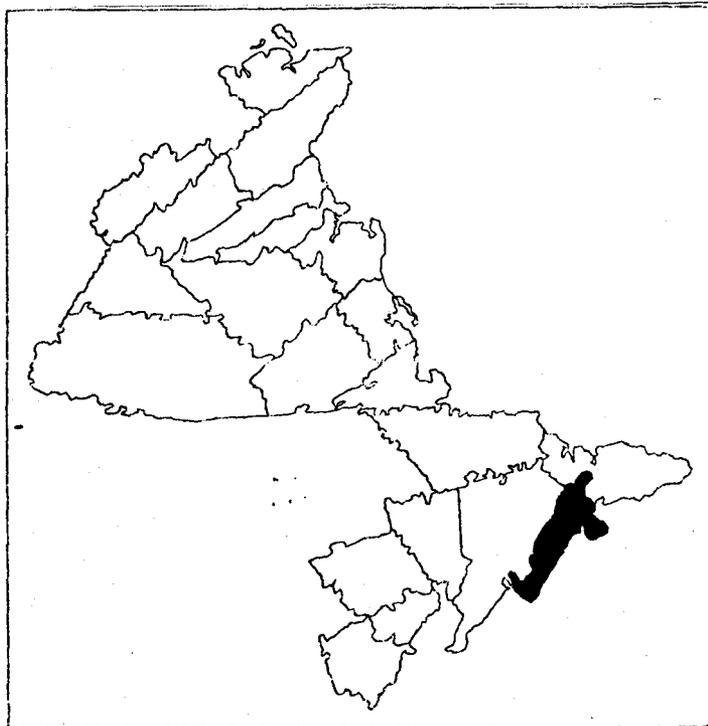
NOTE: Selection based on a predefined subset
Enter command:



Selection 29 - Westmorland Parish

***	SELECTION 29	07007	Page 1	***
Variable :	PROUX-values selected:	13	Jul. 17/81	
Values	Acres	Hectares	%Selection	% Study
13	43,289.6	17,532.3	100.0	2.0
Variable :	CNTTW-values selected:	07007		
Values	Acres	Hectares	%Selection	% Study
07007	43,289.6	17,532.3	100.0	2.0
Variable :	PLUGS-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
K	1,149.7	469.6	2.6	0.0
M	2,017.9	817.2	4.6	0.0
P	14,599.9	5,885.0	33.5	0.6
T	23,293.0	9,421.5	53.7	1.1
U	2,167.0	877.6	5.0	0.1
B	128.4	52.0	0.2	0.0
Z	32.4	13.1	0.0	0.0
Variable :	AGRCI-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
3	19,772.3	8,019.2	45.6	0.9
4	3,104.8	1,257.4	7.1	0.1
5	18,935.7	7,663.9	43.7	0.9
7	1,116.3	452.1	2.5	0.0
0	352.5	142.7	0.8	0.0
2	1.7	0.7	0.0	0.0
Total selected	43,289.6	17,532.3		2.0
Total land area	2,101,037.6	850,920.2		

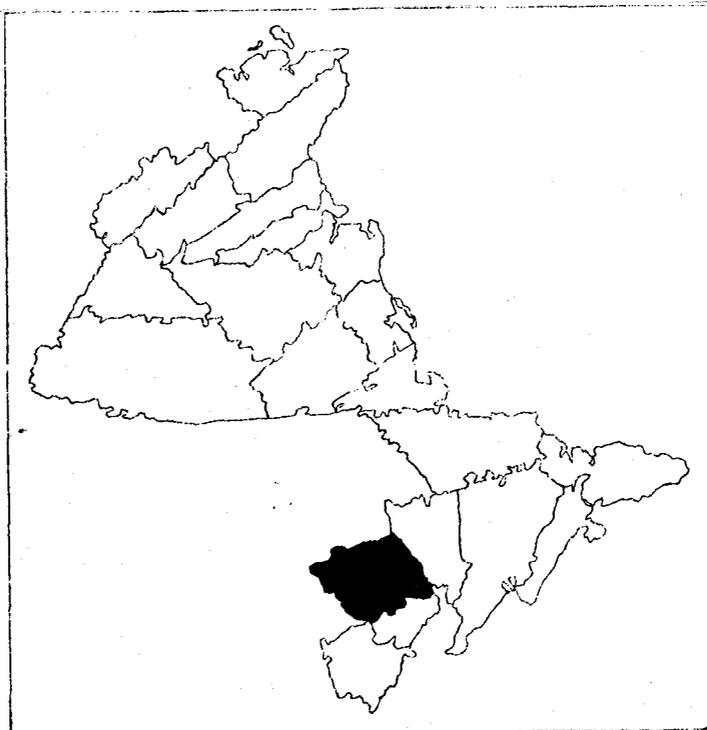
NOTE: Selection based on a predefined subset
Enter command:



Selection 30 - Hillsborough Parish

***	SELECTION 22	08002	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected: 13				
Values	Acres	Hectares	%Selection	% Study	
13	84,294.9	34,139.4	100.0	4.6	
Variable :	ONTTU-values selected: 08002				
Values	Acres	Hectares	%Selection	% Study	
08002	84,294.9	34,139.4	100.0	4.6	
Variable :	PLUGB-values selected: All values				
Values	Acres	Hectares	%Selection	% Study	
B	417.1	168.9	0.4	0.0	
E	332.3	158.9	0.4	0.0	
K	3,336.5	1,371.5	4.0	0.1	
M	4,483.1	195.6	0.5	0.0	
P	8,410.0	3,436.1	9.9	0.4	
T	70,705.2	28,235.6	83.3	3.3	
U	500.1	202.5	0.5	0.0	
Variable :	AGROL-values selected: All values				
Values	Acres	Hectares	%Selection	% Study	
3	14,784.0	5,987.5	17.5	0.7	
7	5,842.1	2,366.0	6.9	0.2	
5	34,037.2	13,805.3	40.4	1.6	
4	29,531.5	11,980.5	35.0	1.4	
Total selected	84,294.9	34,139.4		4.6	
Total land area	2,101,037.6	850,920.2			

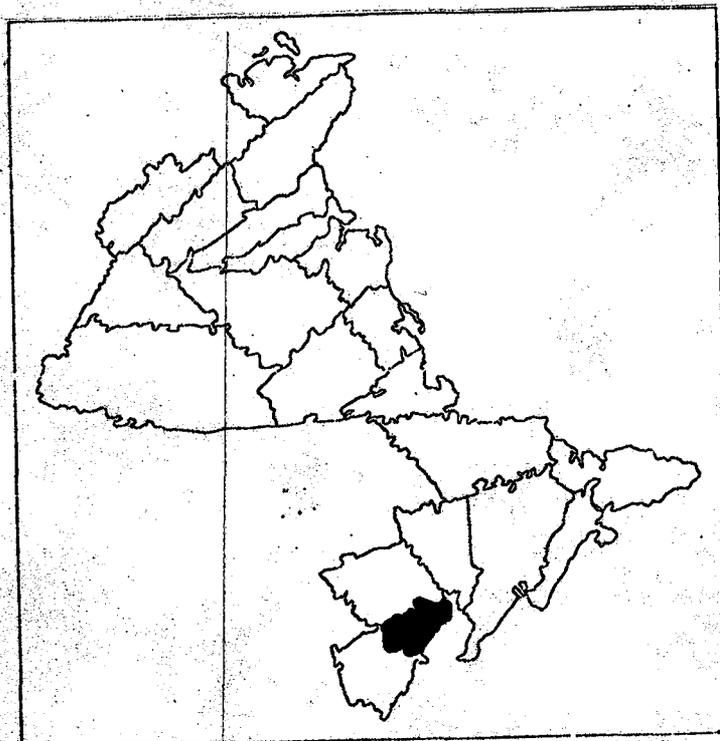
NOTE: Selection based on a predefined subset
Enter command:



Selection 31 - Hopewell Parish

***		06005	Jul. 17/81	Page 1	***
Variable :	SELECTION 24	PROUX-values selected:	13		
Values		Acres		Hectares	%Selection % Study
13		34,739.8		14,069.6	100.0 1.6
Variable :	CNTTU-values selected:	06006			
Values		Acres		Hectares	%Selection % Study
06006		34,739.8		14,069.6	100.0 1.6
Variable :	PLUSS-values selected:	All values			
Values		Acres		Hectares	%Selection % Study
M		1,617.7		655.1	4.6 0.0
P		4,540.7		1,839.0	13.0 0.2
T		26,725.2		10,823.7	76.9 1.2
E		410.5		166.2	1.1 0.0
K		1,235.0		500.1	3.5 0.0
U		210.4		85.2	0.6 0.0
Variable :	AGRCL-values selected:	All values			
Values		Acres		Hectares	%Selection % Study
5		14,852.7		6,015.3	42.7 0.7
7		12,556.2		5,085.2	36.1 0.5
3		5,532.6		2,240.7	15.9 0.2
4		1,535.4		621.8	4.4 0.0
2		262.7		106.4	0.7 0.0
Total selected		34,739.8		14,069.6	
Total land area		2,101,037.6		850,320.2	1.6

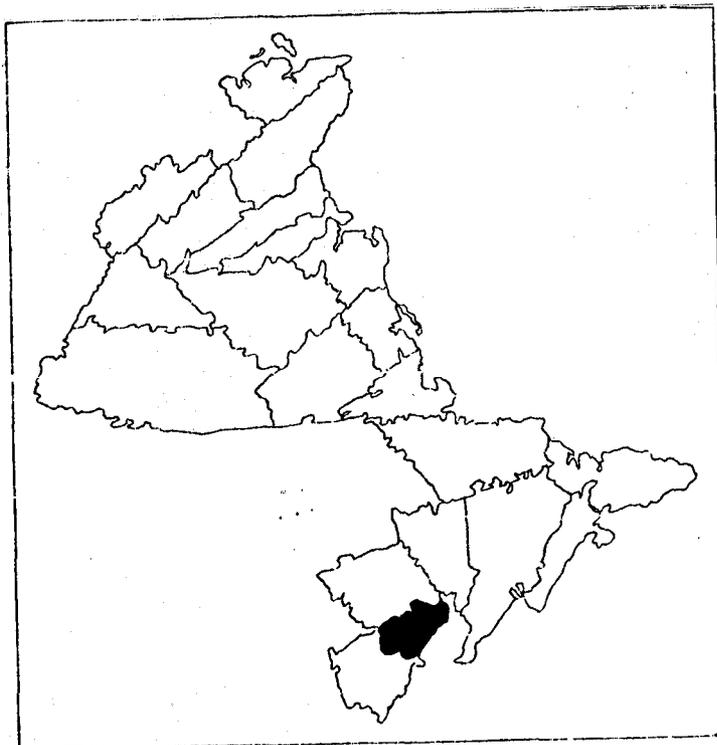
NOTE: Selection based on a predefined subset
Enter command:



Selection 31 - Hopewell Parish

***	SELECTION 24	06006	Jul. 17/81	Page 1	***
Variable :	PROUX-values selected:	13			
Values	Acres	Hectares	%Selection	% Study	
13	34,739.8	14,069.6	100.0	1.6	
Variable :	CNTTW-values selected:	06006			
Values	Acres	Hectares	%Selection	% Study	
06006	34,739.8	14,069.6	100.0	1.6	
Variable :	PLUGS-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
M	1,617.7	655.1	4.6	0.0	
P	4,540.7	1,829.0	13.0	0.2	
T	26,725.2	10,823.7	76.9	1.2	
E	412.5	166.2	1.1	0.0	
K	1,255.0	500.1	3.5	0.0	
U	210.4	85.2	0.6	0.0	
Variable :	AGROL-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
5	14,852.7	6,015.3	42.7	0.7	
7	12,556.2	5,085.2	36.1	0.5	
3	5,532.6	2,240.7	15.9	0.2	
4	1,535.4	621.8	4.4	0.0	
2	262.7	106.4	0.7	0.0	
Total selected	34,739.8	14,069.6		1.6	
Total land area	2,101,037.6	850,320.2			

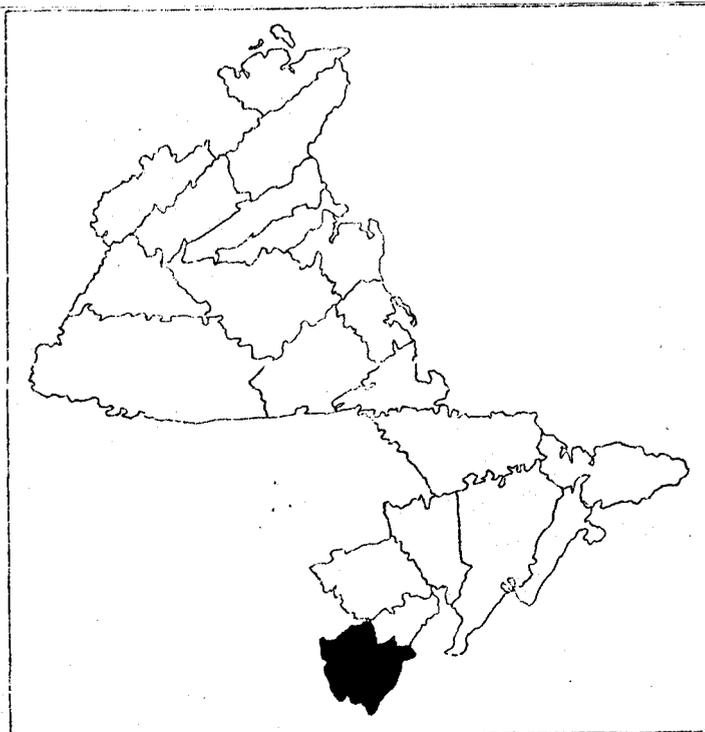
NOTE: Selection based on a predefined subset
Enter command:



Selection 32 - Harvey Parish

		06005	Page 1	***
***	SELECTION 23	Jul. 17/81		
Variable :	PROUX-values selected:	13		
Values	Acres	Hectares	%Selection	% Study
13	64,704.0	26,205.1	100.0	3.0
Variable :	CNTTW-values selected:	06005		
Values	Acres	Hectares	%Selection	% Study
06005	64,704.0	26,205.1	100.0	3.0
Variable :	PLUG8-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
T	51,255.2	20,758.3	79.2	2.4
U	1,712.2	693.4	2.6	0.0
H	3,926.2	1,599.1	6.0	0.1
P	5,462.4	2,212.2	8.4	0.2
C	2,347.0	950.6	3.6	0.1
Z	0.5	0.2	0.0	0.0
Variable :	AGRCL-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
7	29,314.7	11,872.4	45.3	1.3
5	20,536.3	8,317.2	31.7	0.9
3	3,888.4	1,574.8	6.0	0.1
4	10,964.5	4,440.6	16.9	0.5
Total selected	64,704.0	26,205.1		3.0
Total land area	2,101,037.6	850,320.2		

NOTE: Selection based on a predefined subset
Enter command:



LAND RESOURCES OF
SOUTH EAST NEW BRUNSWICK

APPENDIX I

LAND RESOURCES OF
SOUTH EAST NEW BRUNSWICK

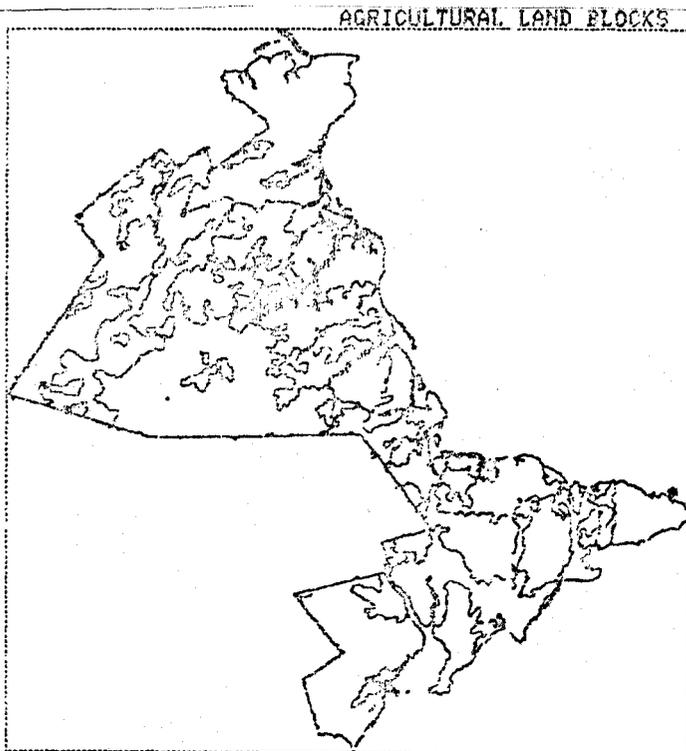
Appendix I

In order to facilitate planning of the agricultural zones of New Brunswick, the land area has been divided into agricultural land blocks. These are defined on the basis of a certain level of capability and a minimum amount of cleared land. The land units then can be used to define the significant agricultural areas of the province. The boundaries of the Agricultural Land Blocks have been entered into the Canada Land Data System and merged with the existing data base for south east New Brunswick. That data set already included land use, land capability, watershed boundaries, county and parish boundaries. With the addition of the land block boundaries, a wide range of summaries can be produced. The distribution of land blocks within parish and township, or the distribution of land use and capability within the land block.

Contained herein is a small set of the possible retrievals that can be extracted from this data set. It includes summaries of the land blocks, the distribution of cleared arable land and the land use and agricultural capability within each land block.

AGRICULTURAL LAND BLOCKS					
***	SELECTION	Acres	Hectares	Page	***
Variable :	POLY#-values selected:	Al. values		1	
Values				%Selection	% Study
089	49,347.8	17,565.8	2.2		
120	105,753.0	42,829.0	5.4		
228	1,147,445.7	457,715.5	58.6		
219	59,194.9	26,532.9	4.6		
190	9,233.3	1,574.7	0.1		
121	78,809.9	31,107.3	3.9		
102	533.0	237.3	0.0		
191	5,827.4	2,295.3	0.2		
213	2,866.9	1,161.1	0.1		
062	251.0	101.6	0.0		
189	3,873.5	1,532.7	0.1		
227	23,296.2	9,277.9	4.2		
195	46,558.3	18,266.1	2.3		
106	1,335.5	536.8	0.0		
080	44,241.1	18,231.1	2.2		
108	2,573.0	1,022.8	0.1		
023	7,723.6	3,130.0	0.3		
202	27,715.3	11,224.7	1.4		
203	32,200.2	12,824.1	1.6		
211	68,232.1	27,654.2	3.4		
225	73,220.7	29,658.4	3.7		
194	2,636.3	1,092.0	0.1		
100	2,920.4	1,182.7	0.1		
217	6,939.1	2,777.0	0.3		
212	41,395.3	16,724.9	2.1		
201	4,911.6	1,933.2	0.2		
064	18,803.3	7,615.5	0.9		
090	1,244.2	503.0	0.0		
053	2,539.5	1,014.8	0.4		
Total selected	1,957,444.8	792,725.1	100.0		
Total land area	1,957,444.8	792,725.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



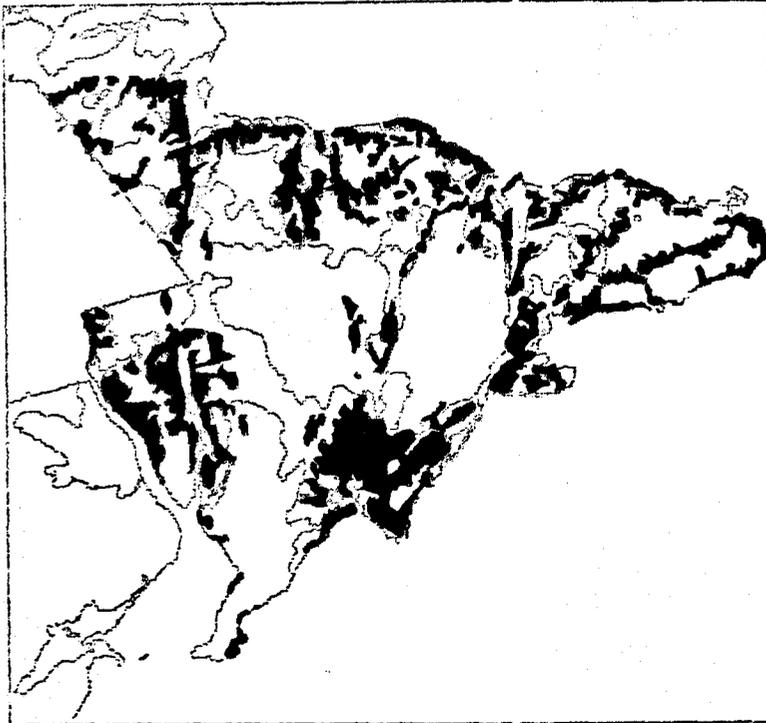
Cleared Arable Land		Oct. 01/81		Page 1	***
Variable :	CNTYX-values selected:	06			
Values	Acres	Hectares	%Selection	% Study	
05	17,809.4	7,209.1	100.0	0.9	
Variable :	PLUG8-values selected:	PACHK			
Values	Acres	Hectares	%Selection	% Study	
K	2,973.8	1,204.3	16.7	0.1	
P	14,835.5	6,004.7	83.2	0.7	
Variable :	AGRCL-values selected:	23			
Values	Acres	Hectares	%Selection	% Study	
3	11,854.1	4,557.9	63.2	0.5	
4	6,079.7	2,573.2	35.6	0.3	
2	102.5	77.9	1.0	0.0	
Variable :	POLY*-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
064	4,924.8	1,994.5	27.6	0.2	
882	7,373.3	2,986.2	41.4	0.3	
065	5,502.2	2,223.4	30.9	0.2	
Total selected	17,800.4	7,209.1		0.9	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



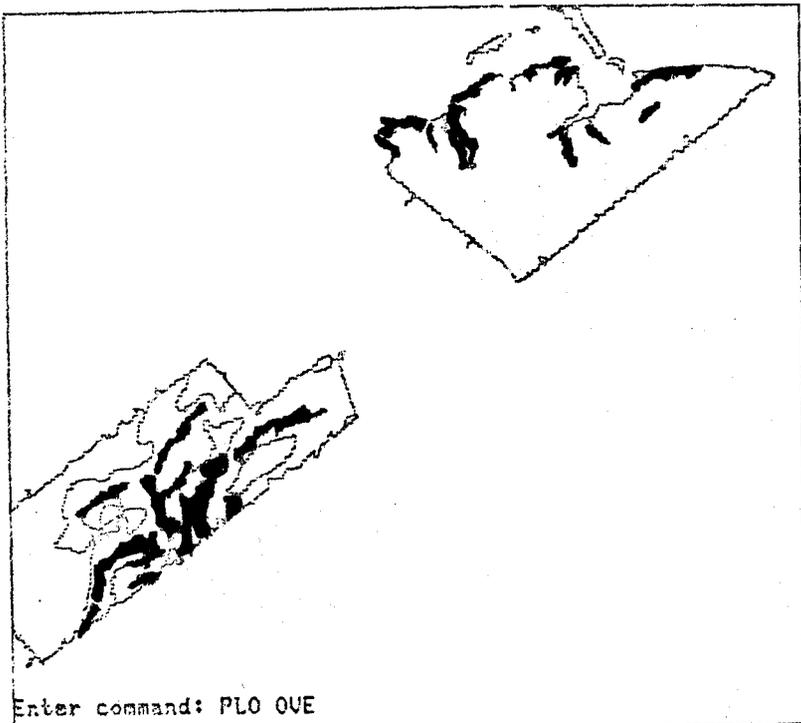
CLEARED ARABLE LAND						
***	SELECTION	3	Oct. 01/81	Page	1	***
Variable : CNTYX-values selected: 07						
Values	Acres		Hectares	%Selection		% Study
07	110,619.5		44,800.9	100.0		5.6
Variable : PLUSE-values selected: PAGNK						
Values	Acres		Hectares	%Selection		% Study
P	89,143.9		36,103.3	80.5		4.5
K	21,475.6		8,697.6	19.4		1.0
Variable : AGRCL-values selected: 234						
Values	Acres		Hectares	%Selection		% Study
2	127.6		51.6	0.1		0.0
3	91,843.7		37,196.7	83.0		4.6
4	18,648.2		7,552.5	16.8		0.9
Variable : POLY#-values selected: All values						
Values	Acres		Hectares	%Selection		% Study
000	2,875.4		1,164.5	2.5		0.1
000	41,639.1		16,863.8	37.6		2.1
010	28,624.7		11,593.0	25.8		1.4
020	10,457.3		4,235.4	9.4		0.5
030	8,992.5		3,641.9	8.1		0.4
040	3,622.4		1,491.3	3.3		0.1
050	1,845.2		747.3	1.6		0.0
060	9,696.9		3,927.2	8.7		0.4
070	2,732.4		1,107.0	2.4		0.1
080	71.7		29.0	0.0		0.0

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



Cleared Arable Land		Page 1		***
***	SELECTION 6	Oct. 01/81		
Variable :	CNTYX-values selected:	09		
Values	Acres	Hectares	%Selection	% Study
09	17,340.3	7,022.8	100.0	0.3
Variable :	PLUS2-values selected:	PAG IK		
Values	Acres	Hectares	%Selection	% Study
K	4,287.5	2,019.9	28.7	0.2
P	12,352.7	5,002.8	71.2	0.6
Variable :	AGRCL-values selected:	234		
Values	Acres	Hectares	%Selection	% Study
3	12,639.8	5,119.1	72.8	0.6
4	4,700.4	1,903.6	27.1	0.2
Variable :	POLY%-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
227	10,424.2	4,246.1	60.4	0.5
238	6,856.0	2,776.6	39.5	0.3
Total selected	17,340.3	7,022.8		0.8
Total land area	1,957,444.8	792,765.1		

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



		CLEARED ARABLE LAND		Page 1	***
***	SELECTION 4	Oct. 01/81			
Variable :	CNTYX-values selected:	03			
Values	Acres	Hectares	%Selection	% Study	
03	159,022.3	64,404.0	100.0	8.1	
Variable :	FLUG8-values selected:	PACHK			
Values	Acres	Hectares	%Selection	% Study	
0	140,376.6	57,055.0	88.5	7.1	
K	18,145.6	7,349.0	11.4	0.9	
Variable :	AGRCL-values selected:	23			
Values	Acres	Hectares	%Selection	% Study	
0	85,721.4	34,721.2	53.9	4.3	
4	73,209.9	29,652.8	46.0	3.7	
Variable :	POLY8-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
191	656.6	265.9	0.4	0.0	
238	81,494.9	33,095.4	51.2	4.1	
237	5,712.9	2,313.7	3.5	0.2	
195	11,258.3	4,560.4	7.0	0.5	
199	292.2	118.3	0.1	0.0	
203	1.0	0.4	0.0	0.0	
223	6,410.0	2,595.0	4.0	0.3	
214	30,830.3	12,510.5	19.4	1.5	
225	21,037.2	8,520.0	13.2	1.0	
226	370.3	150.0	0.2	0.0	
193	896.1	362.9	0.5	0.0	

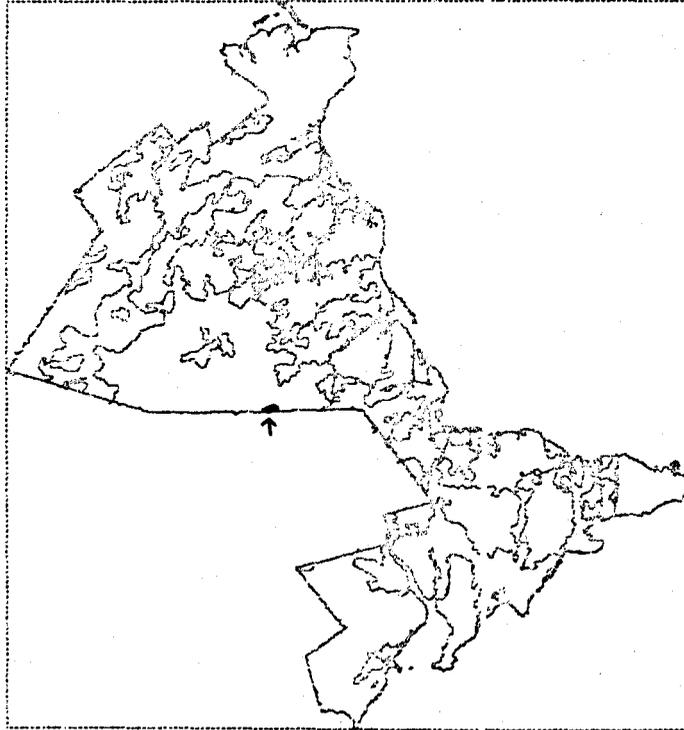
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



LAND RESOURCES IN BLOCK 062						
***	SELECTION	9	0.t. 01/81	Page	1	***
Variable :	PLUS-values selected:	All values				
Values	Acres	Hectares	%Selection		% Study	
7	251.0	101.6	100.0		0.0	
Variable :	AGROL-values selected:	All values				
Values	Acres	Hectares	%Selection		% Study	
4	230.7	93.4	91.9		0.0	
3	20.3	8.2	8.0		0.0	
Variable :	POLYS-values selected:	062				
Values	Acres	Hectares	%Selection		% Study	
062	251.0	101.6	100.0		0.0	
Total selected	251.0	101.6			0.0	
Total land area	1,957,444.8	782,765.1				

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS

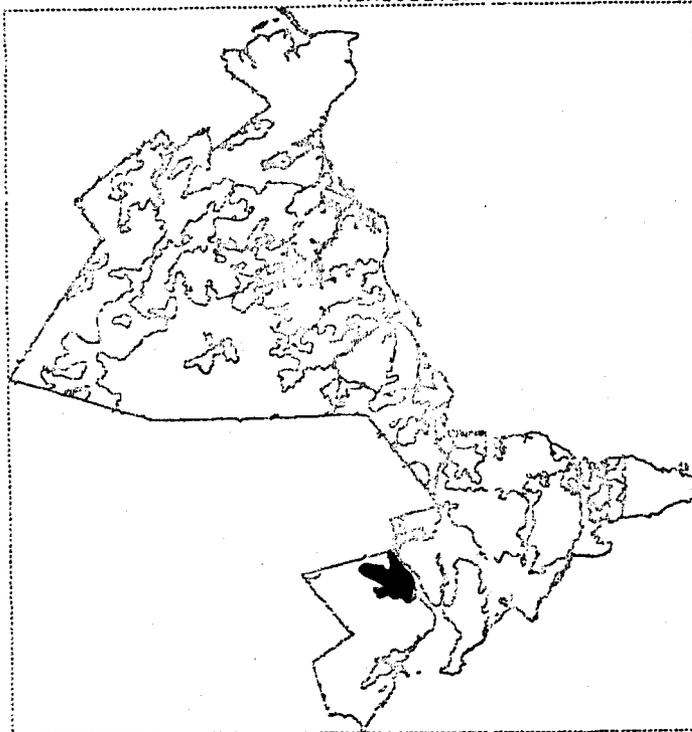


LAND RESOURCES OF BLOCK 064

*** SELECTION 15 (Cat. 01/21) Page 1 ***					
Variable :	PLUS3-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
0	417.1	168.0	2.2	0.0	
1	392.3	158.9	2.0	0.0	
2	1,255.8	427.5	5.8	0.0	
3	480.1	193.0	2.6	0.0	
4	4,780.4	1,903.6	24.9	0.2	
5	11,754.8	4,760.7	62.5	0.6	
Variable :	AGRC1-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
0	11,812.4	4,784.0	62.8	0.5	
1	195.3	79.3	1.0	0.0	
2	3,489.7	1,417.3	18.6	0.1	
3	3,295.8	1,334.8	17.5	0.1	
Variable :	POLY3-values selected:	064			
Values	Acres	Hectares	%Selection	% Study	
024	18,803.8	7,615.5	100.0	0.9	
Total selected	18,803.8	7,615.5		0.9	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS

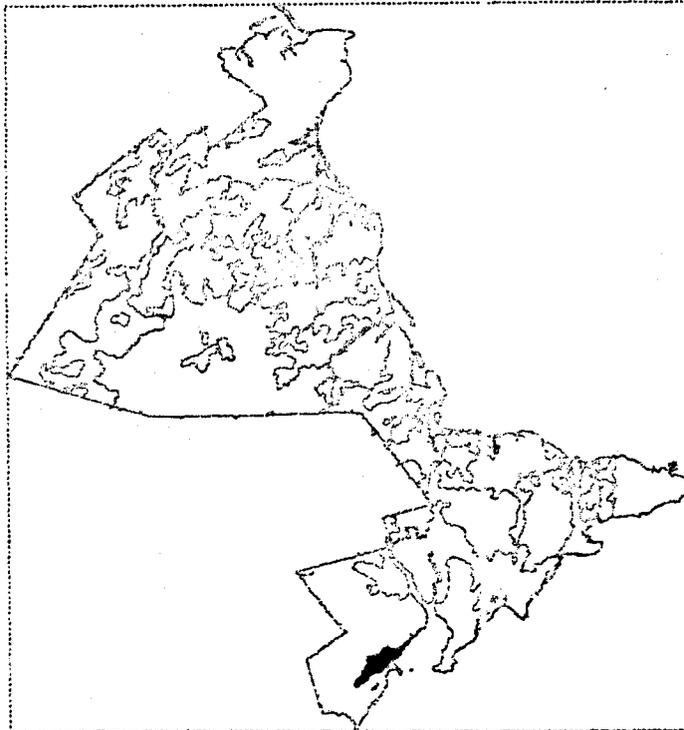


LAND RESOURCES OF BLOCK 065

*** SELECTION 16		Col. 01/81		Page 1	***
Variable : PLUS-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
M	1,446.4	585.8	16.9	0.0	
P	4,824.2	1,953.8	56.5	0.2	
T	1,011.6	402.7	11.3	0.0	
U	157.7	76.0	2.2	0.0	
B	162.1	65.6	1.9	0.0	
K	898.2	352.8	10.5	0.0	
Variable : AGRCL-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
4	1,689.1	680.4	19.6	0.0	
3	5,699.6	2,304.7	66.7	0.2	
5	69.0	27.9	0.8	0.0	
7	927.3	375.5	10.8	0.0	
2	163.4	66.1	1.9	0.0	
Variable : POLY-values selected: 065					
Values	Acres	Hectares	%Selection	% Study	
065	3,530.5	3,454.8	100.0	0.4	
Total selected	8,530.5	3,454.8		0.4	
Total land area	1,957,444.2	792,795.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS

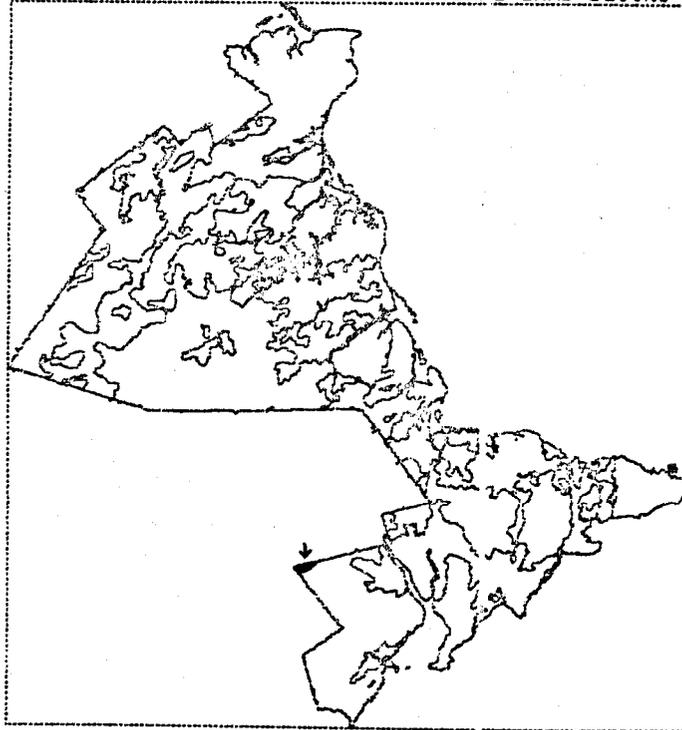


LAND RESOURCES IN BLOCK 066

***	SELECTION 11	Oct. 01/81	Page 1	***
Variable :	PLUS8-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
T	1,244.2	503.9	100.0	0.0
Variable :	AGRCL-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
A	1,244.2	503.9	100.0	0.0
Variable :	POLY#-values selected:	066		
Values	Acres	Hectares	%Selection	% Study
066	1,244.2	503.9	100.0	0.0
Total selected	1,244.2	503.9		0.0
Total land area	1,957,444.8	792,765.1		

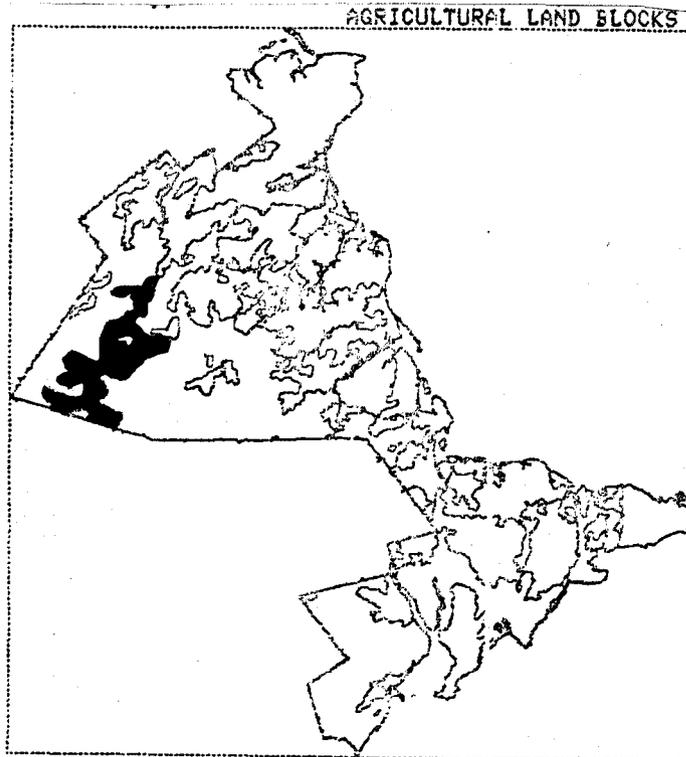
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS



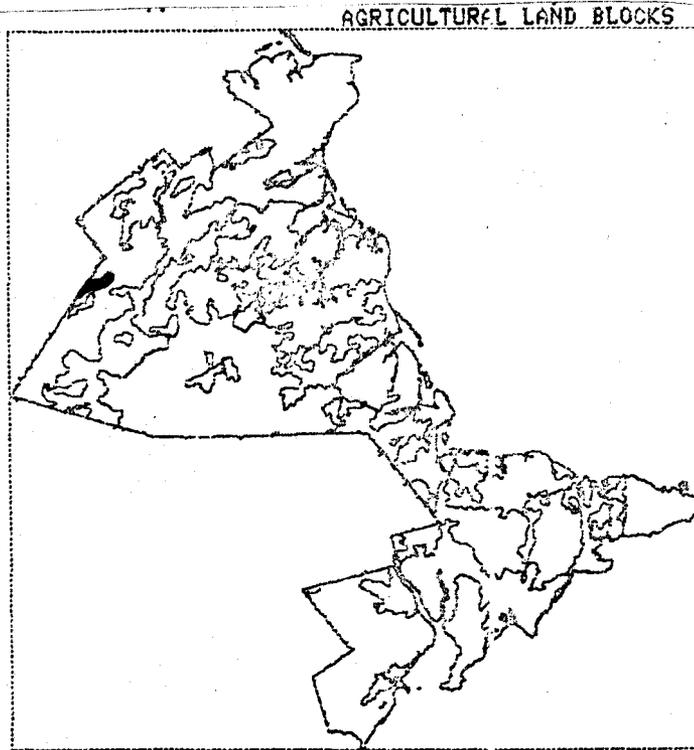
LAND RESOURCES IN BLOCK 181					
***	SELECTION 20	Oct. 01/81	Page 1	***	
Variable : PLU68-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
T	72,413.3	29,327.4	94.2	3.6	
U	3,211.5	1,300.6	4.1	0.1	
M	1,184.5	479.7	1.5	0.0	
Variable : AGRCL-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
3	61,434.3	24,800.9	79.9	3.1	
4	11,927.2	4,854.8	15.6	0.6	
7	2,168.8	878.3	2.8	0.1	
0	638.9	258.7	0.8	0.0	
5	500.0	234.9	0.7	0.0	
Variable : POLY#-values selected: 181					
Values	Acres	Hectares	%Selection	% Study	
181	76,809.3	31,107.8	100.0	3.9	
Total selected	76,809.3	31,107.8		3.9	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



LAND RESOURCES OF BLOCK 189					
***	SELECTION 24	Oct 01/81	Page 1	***	
Variable :	PLUS3-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
T	3,197.7	1,295.0	82.5	0.1	
U	875.8	273.7	17.4	0.0	
Variable :	AGRCL-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
3	2,229.3	827.2	59.1	0.1	
4	1,402.8	568.1	36.2	0.0	
5	181.2	73.4	4.6	0.0	
Variable :	POLY3-values selected:	189			
Values	Acres	Hectares	%Selection	% Study	
189	3,873.5	1,568.7	100.0	0.1	
Total selected	3,873.5	1,568.7			0.1
Total land area	1,957,444.8	792,765.1			

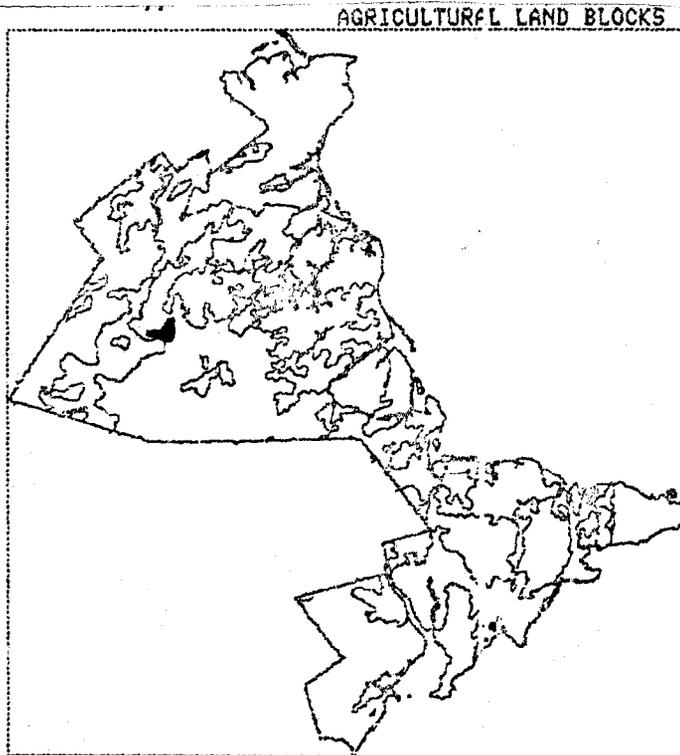
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



LAND RESOURCES OF BLOCK 190

***	SELECTION 19	Oct. 01/81	Page 1	***
Variable :	PLUG2-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
T	3,432.4	1,390.1	88.2	0.1
M	237.7	96.2	6.1	0.0
U	218.1	88.3	5.6	0.0
Variable :	ACRCL-values selected:	All values		
Values	Acres	Hectares	%Selection	% Study
3	1,276.3	510.9	32.8	0.0
4	1,589.9	635.8	40.3	0.0
7	1,042.0	422.0	26.7	0.0
Variable :	POLY#-values selected:	190		
Values	Acres	Hectares	%Selection	% Study
190	3,888.3	1,574.7	100.0	0.1
Total selected	3,888.3	1,574.7		0.1
Total land area	1,957,444.8	792,765.1		

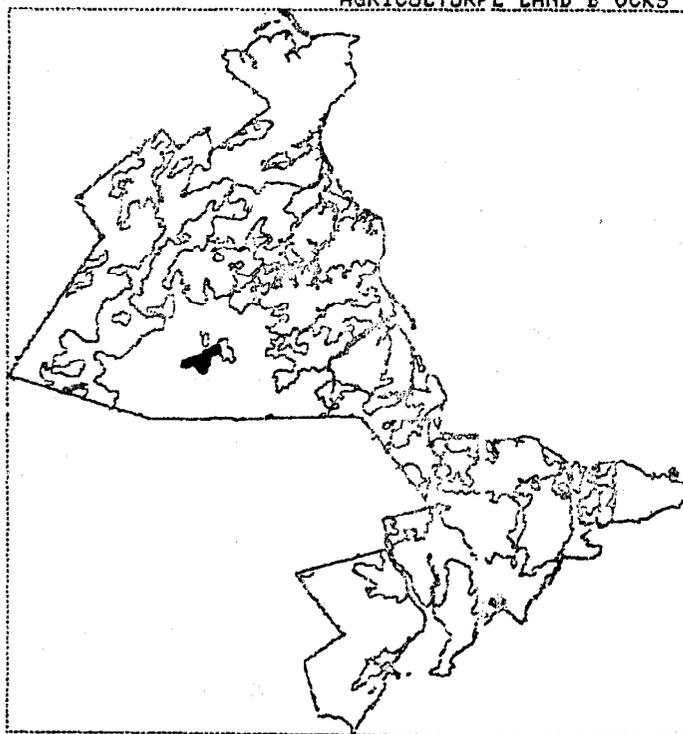
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



LAND RESOURCES OF BLOCK 191					
*** SELECTION 22		Oct. 01/81		Page 1	***
Variable : PLUS-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
P	270.4	109.5	4.7	2.0	
T	1,015.9	411.4	17.9	0.0	
U	3,994.8	1,617.9	70.4	0.2	
K	386.2	156.4	6.8	0.0	
Variable : AGRCL-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
3	3,822.1	1,576.3	68.6	0.1	
4	1,825.1	658.1	23.6	0.0	
7	150.1	60.2	2.6	0.0	
Variable : POLY-values selected: 191					
Values	Acres	Hectares	%Selection	% Study	
191	5,667.4	2,295.3	100.0	0.2	
Total selected	5,667.4	2,295.3		0.2	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS



LAND RESOURCES OF BLOCK 192

*** SELECTION 21 Oct. 01/81 Page 1 ***

Variable : PLUS8-values selected: All values

Values	Acres	Hectares	%Selection	% Study
M	215.2	87.1	25.8	0.0
T	235.2	83.5	24.7	0.0
U	411.4	166.6	49.3	0.0

Variable : ACRL-values selected: All values

Values	Acres	Hectares	%Selection	% Study
0	288.1	118.7	34.5	0.0
3	330.0	133.6	39.6	0.0
4	214.7	86.9	25.7	0.0

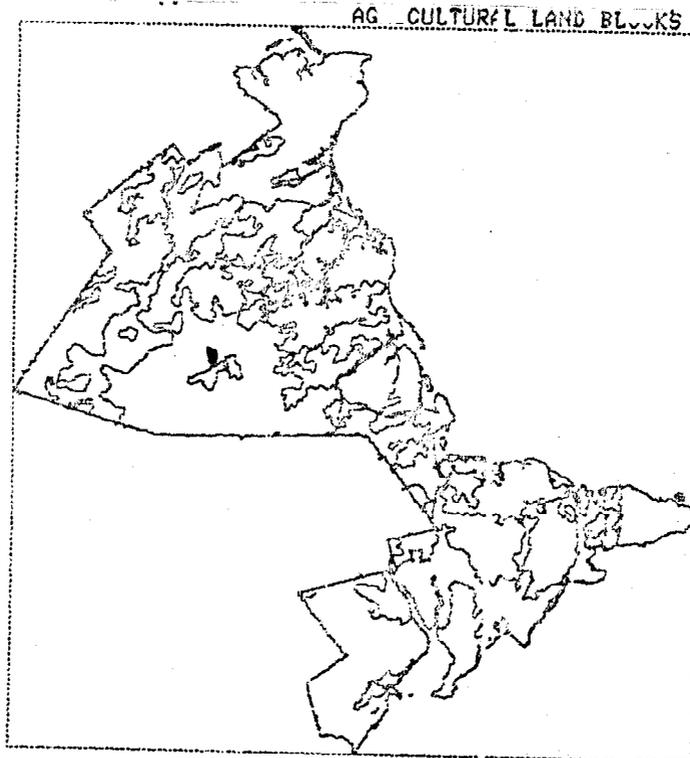
Variable : POLY-values selected: 192

Values	Acres	Hectares	%Selection	% Study
192	833.0	337.3	100.0	0.0

Total selected 833.0 337.3 0.0

Total land area 1,857,444.8 732,785.1

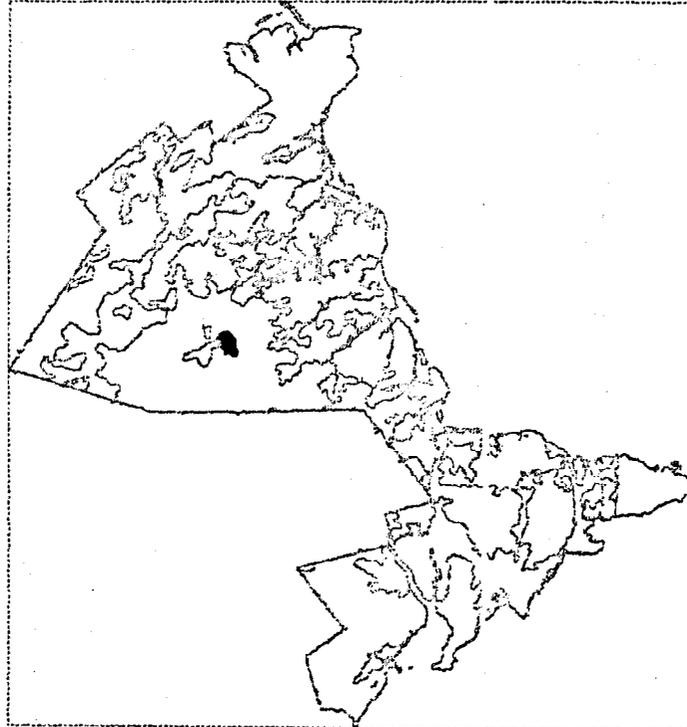
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



LAND RESOURCES OF BLOCK 193					
SELECTION 36		Oct. 01/81		Page 1	***
Variable : FLUSS-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
R	425.3	172.2	14.5	0.0	
SP	508.0	203.3	17.1	0.0	
T	1,722.3	683.0	59.0	0.0	
U	289.4	119.1	9.2	0.0	
Variable : AGRCL-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
AD	1,724.5	683.4	59.0	0.0	
AG	999.3	398.6	33.1	0.0	
A	15.1	6.5	0.5	0.0	
S	210.4	85.2	7.2	0.0	
Variable : FOLY%-values selected: 193					
Values	Acres	Hectares	%Selection	% Study	
193	2,920.4	1,182.7	100.0	0.1	
Total selected					
	2,920.4	1,182.7		0.1	
Total land area					
	1,957,444.8	792,765.1			

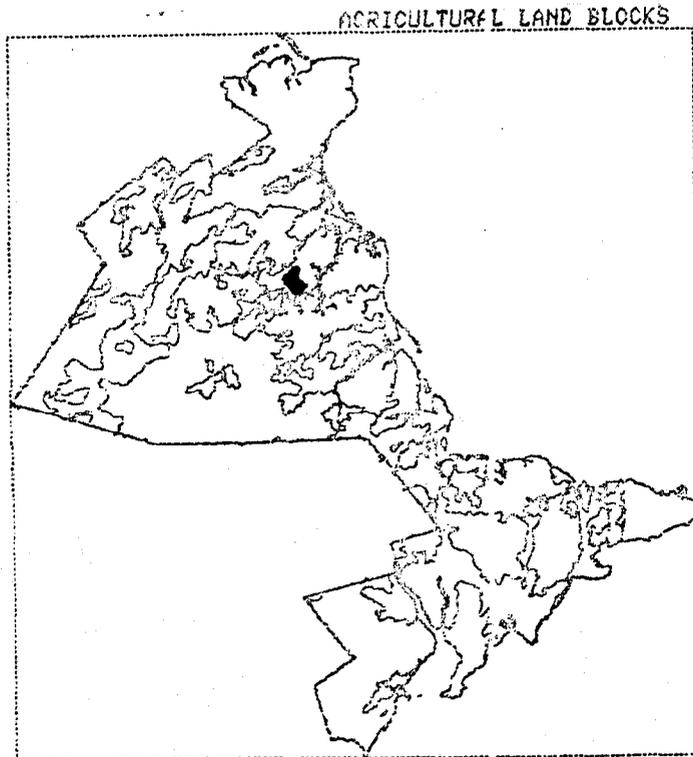
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS



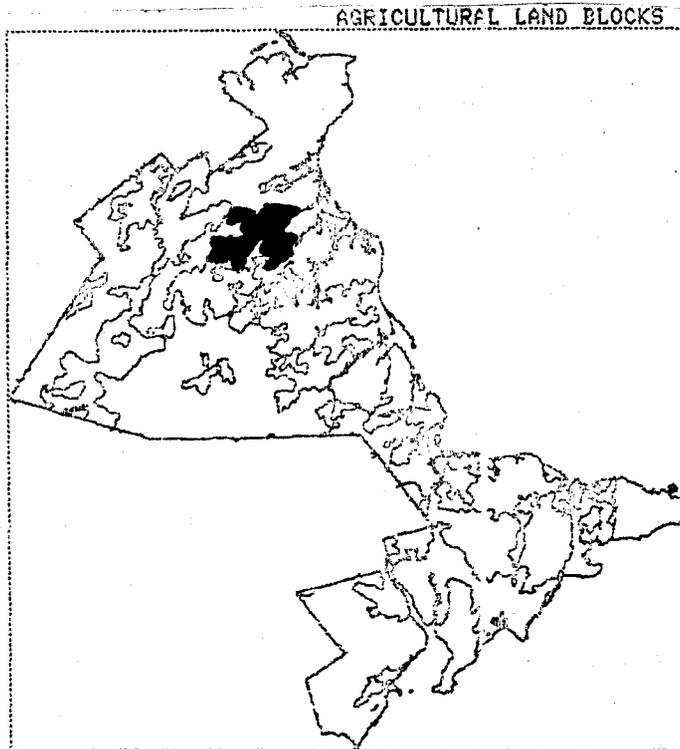
LAND RESOURCES OF BLOCK 194					
Variable	Acres	Hectares	% Selection	% Study	
*** SELECTION 35 Oct. 01/81 Page 1 ***					
Variable : PLUSS-values selected: All values					
Values	Acres	Hectares	% Selection	% Study	
T	2,536.5	1,025.4	94.2	0.1	
U	129.9	52.2	4.7	0.0	
B	10.7	4.2	0.4	0.0	
Variable : AGRCL-values selected: All values					
Values	Acres	Hectares	% Selection	% Study	
S	1,115.7	451.8	41.3	0.0	
E	1,317.9	533.7	48.8	0.0	
L	202.6	106.3	9.7	0.0	
Variable : POLY4-values selected: 194					
Values	Acres	Hectares	% Selection	% Study	
194	2,896.3	1,092.0	100.0	0.1	
Total selected	2,896.3	1,092.0		0.1	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



LAND RESOURCES OF BLOCK 195					
***	SELECTION 86	Oct. 01/81	Page 1	***	
Variable :	PLUS-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
P	10,779.3	4,369.1	23.1	0.5	
T	25,779.4	10,242.8	57.3	1.3	
H	753.5	297.2	1.6	0.0	
U	7,927.3	3,048.5	16.1	0.3	
K	750.7	294.3	1.5	0.0	
Variable :	AGRI-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
S	23,422.1	11,510.9	61.9	1.4	
5	2,319.4	918.9	13.5	0.3	
A	8,923.4	3,514.0	19.1	0.4	
7	2,682.5	1,065.8	5.7	0.1	
0	212.8	85.3	0.4	0.0	
Variable :	POLY-values selected:	195			
Values	Acres	Hectares	%Selection	% Study	
195	46,553.3	18,856.1	100.0	2.3	
Total selected	46,553.3	18,856.1		2.3	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

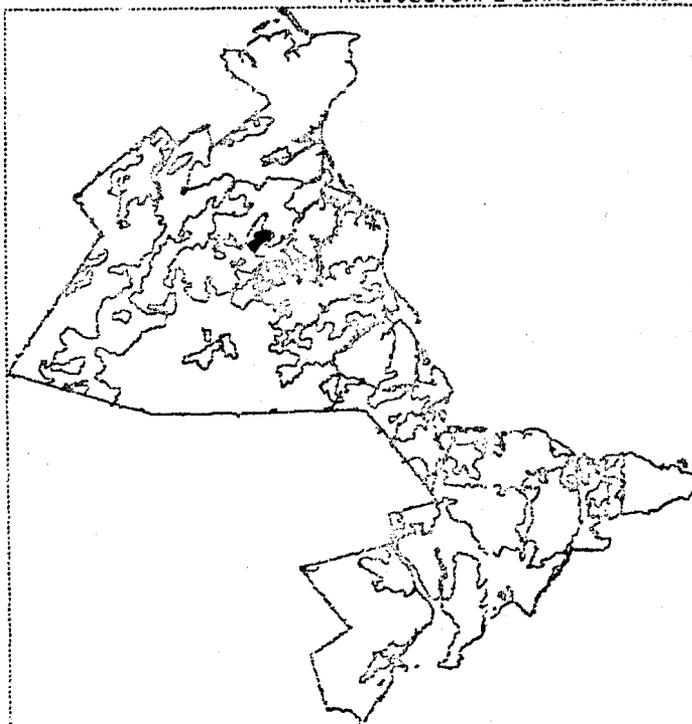


LAND RESOURCES OF BLOCK 198

*** SELECTION 27 Oct. 01/81 Page 1 ***				
Variable : FLUGZ-values selected: all values				
Values	Acres	Hectares	XSelection	% Study
P	357.0	144.5	26.9	0.0
T	707.6	310.8	57.9	0.0
U	200.9	21.0	15.1	0.0
Variable : AGRCL-values selected: All values				
Values	Acres	Hectares	XSelection	% Study
3	708.4	316.8	59.0	0.0
6	526.7	213.3	30.7	0.0
7	16.3	6.6	1.2	0.0
Variable : POLYX-values selected: 198				
Values	Acres	Hectares	XSelection	% Study
198	1,385.5	536.8	100.0	0.0
Total selected	1,385.5	536.8		0.0
Total land area	1,957,444.8	792,765.1		

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

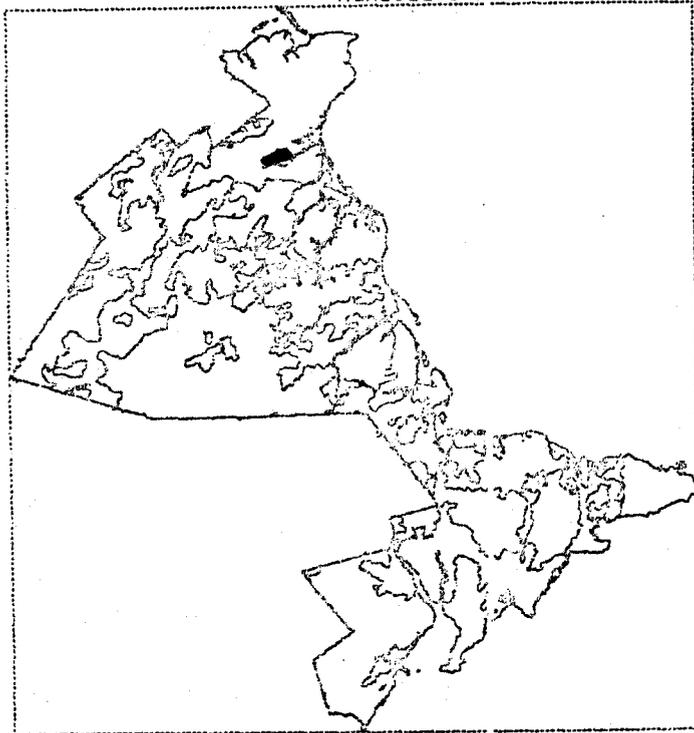
AGRICULTURAL LAND BLOCKS



LAND RESOURCES OF BLOCK 208					
***	SELECTION 29	Oct. 01/81	Page 1	***	
Variable : PLUS2-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
M	431.8	174.3	15.1	0.0	
P	1.0	0.4	0.0	0.0	
T	1,737.8	715.9	66.1	0.0	
U	473.1	191.6	17.6	0.0	
Variable : AGRCL-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
0	400.6	159.2	14.9	0.0	
3	719.2	291.2	26.8	0.0	
4	65.9	26.8	3.5	0.0	
7	1,457.9	590.4	54.5	0.0	
Variable : POLY3-values selected: 208					
Values	Acres	Hectares	%Selection	% Study	
208	2,673.8	1,082.8	100.0	0.1	
Total selected					
	2,673.8	1,082.8		0.1	
Total land area					
	1,957,444.8	792,765.1			

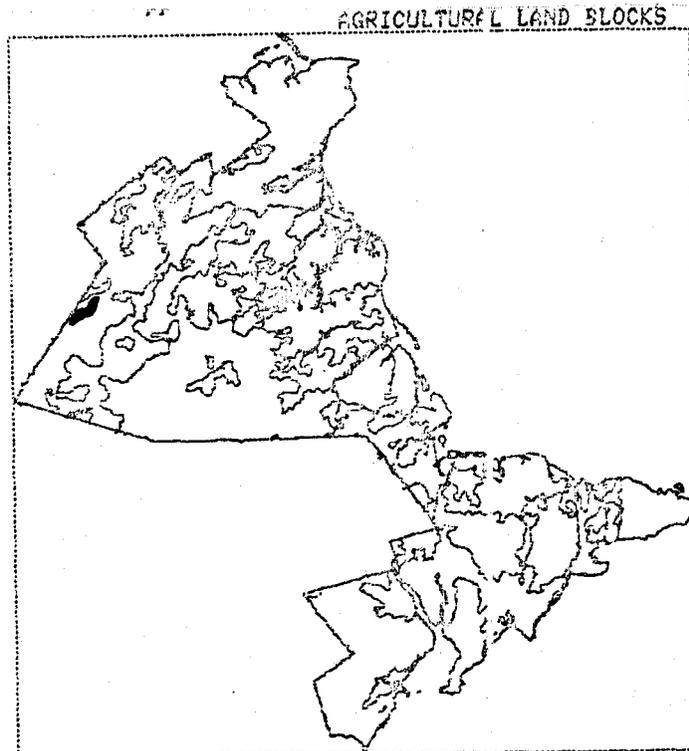
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS



LAND RESOURCES OF BLOCK 213					
*** SELECTION 23 Oct. 01/81 Page 1 ***					
Variable : PLUG-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
M	35.2	14.2	1.3	0.0	
T	2,348.6	948.7	81.7	0.1	
U	439.0	192.0	17.0	0.0	
Variable : PARCL-values selected: All values					
Values	Acres	Hectares	%Selection	% Study	
O	27.3	27.3	2.3	0.0	
Q	1,774.0	718.4	61.8	0.0	
S	931.5	397.5	34.2	0.0	
V	44.0	17.8	1.5	0.0	
Variable : POLY-values selected: 2:3					
Values	Acres	Hectares	%Selection	% Study	
213	2,866.9	1,161.1	100.0	0.1	
Total selected	2,866.9	1,161.1		0.1	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

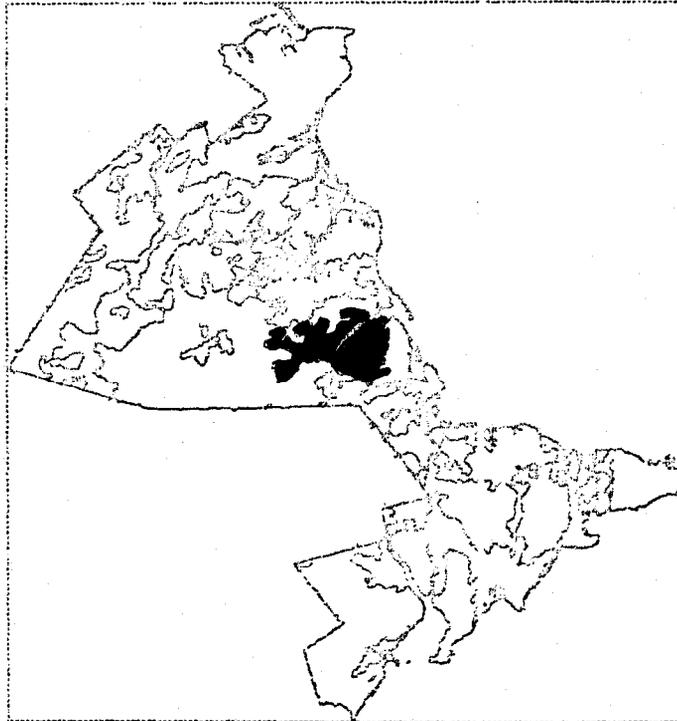


LAND RESOURCES OF BLOCK 214

*** SELECTION 33 Oct. 81/81		Page 1		***	
Variable :	PLUR2-values selected:	All values		% Selection	% Study
Values	Acres	Hectares			
	692.9	279.6		8.9	0.9
	30,821.3	12,266.6		44.3	1.5
	34,881.7	14,048.1		50.7	1.7
	2,215.6	877.2		3.2	0.1
	281.9	111.9		1.3	0.0
	223.8	88.6		0.9	0.0
Variable :	ACRCL-values selected:	All values		% Selection	% Study
Values	Acres	Hectares			
	54,436.9	22,042.8		79.7	2.7
	19,377.6	5,417.9		19.5	0.6
	199.7	79.2		0.2	0.0
	627.8	116.5		0.4	0.0
Variable :	POLY2-values selected:	All values		% Selection	% Study
Values	Acres	Hectares			
214	63,282.1	27,654.2		100.0	3.4
Total selected	63,282.1	27,654.2			3.4
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

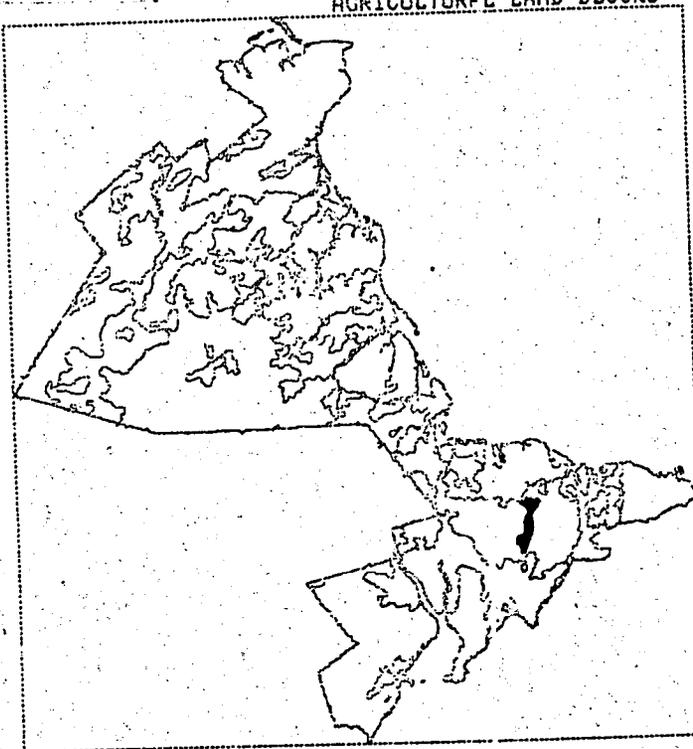
AGRICULTURAL LAND BLOCKS



		LAND RESOURCE OF BLOCK 217		Page 1	xxx
		Oct. 01/81			
Variable :	SELECTION 37	selected:	All values		
Values		Acres	Hectares	%Selection	% Study
P		1,378.7	558.3	20.1	0.0
T		4,618.5	1,870.5	67.3	0.0
K		810.9	328.4	11.3	0.0
M		50.9	20.6	0.7	0.0
Variable :	AGRCL-values	selected:	All values		
Values		Acres	Hectares	%Selection	% Study
U		4,455.3	1,693.0	64.5	0.0
S		2,598.9	1,040.3	37.4	0.1
S		133.3	54.0	1.9	2.0
Variable :	POLY#-values	selected:	217		
Values		Acres	Hectares	%Selection	% Study
217		6,859.1	2,777.9	100.0	0.3
Total selected		6,859.1	2,777.9		0.3
Total land area		1,957,444.8	792,765.1		

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS

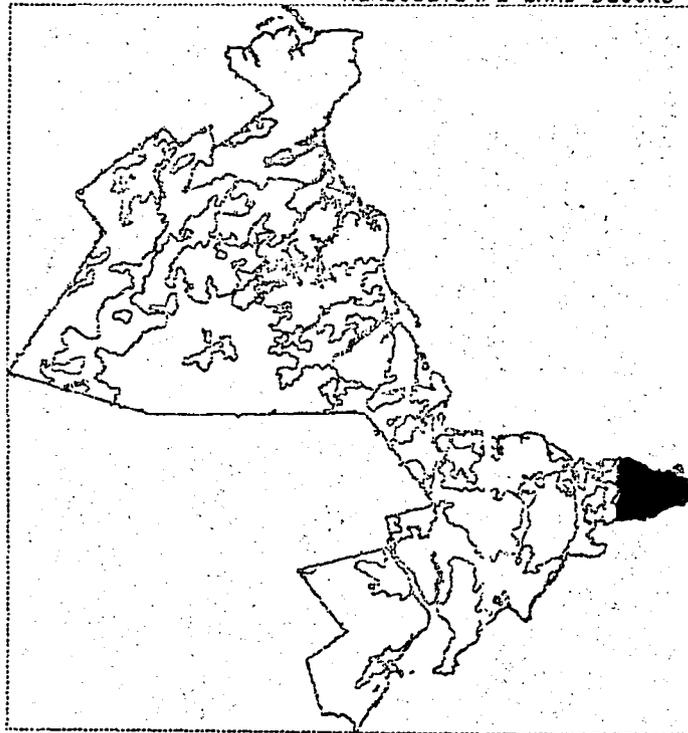


LAND RESOURCES OF BLOCK 218

***	SELECTION 38	Gr. 01/81	Page	i	***
Variable :	PLUS2-values selected:	All values			
Values	Acres	Hectares	%Selection		% Study
P	13,133.7	5,339.4	31.8		3.0
T	23,728.2	9,429.9	57.3		1.2
S	232.2	91.0	0.5		0.0
N	2,164.3	876.5	5.2		0.1
M	249.9	98.8	0.5		0.0
U	1,842.4	746.1	4.4		0.0
Variable :	AGROL-values selected:	All values			
Values	Acres	Hectares	%Selection		% Study
S	13,769.2	7,598.1	46.5		0.3
M	21,758.9	8,812.3	58.5		1.1
T	575.3	234.5	2.1		0.0
Variable :	POLY4-values selected:	218			
Values	Acres	Hectares	%Selection		% Study
218	41,395.0	16,764.9	100.0		2.1
Total selected	41,395.0	16,764.9			2.1
Total land area	1,957,444.2	792,765.1			

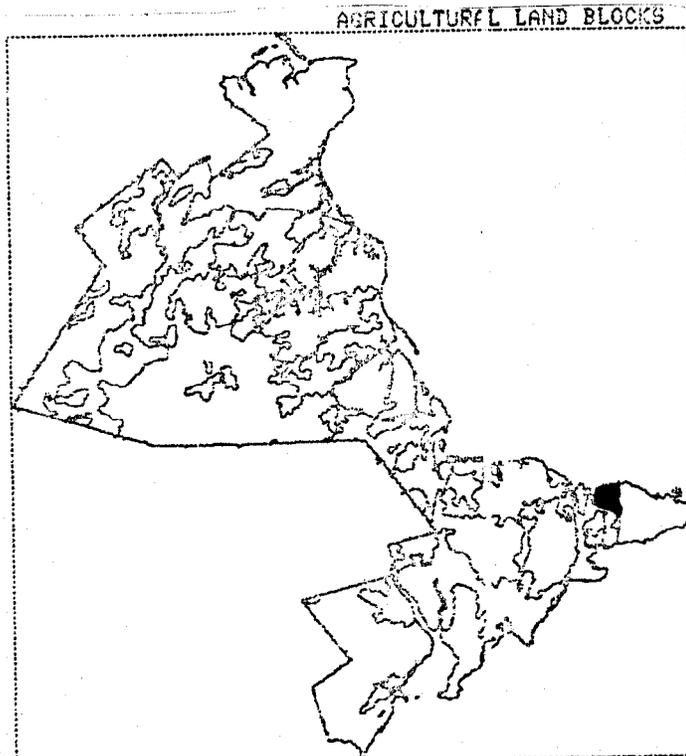
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS



LAND RESOURCES OF BLOCK 219					
SELECTION 18		(Oct. 01/81)		Page 1	***
Variable : FLUGS-values selected: all values					
Values	Acres	Hectares	%Selection	% Study	
H	2,317.1	932.4	2.5	0.1	
P	26,829.8	10,806.0	29.7	1.3	
U	2,404.7	963.9	9.3	0.4	
K	9,043.7	3,627.2	11.0	0.5	
T	42,404.1	17,173.6	47.0	2.1	
B	231.4	93.7	0.2	0.0	
Z	63.3	25.3	0.0	0.0	
Variable : AGRCL-values selected: all values					
Values	Acres	Hectares	%Selection	% Study	
7	173.3	70.4	0.1	0.0	
3	56,259.9	22,705.2	62.3	2.8	
2	42.8	17.3	0.0	0.0	
5	22,869.0	11,690.3	33.0	1.4	
4	4,224.3	1,954.0	5.3	0.2	
0	23.3	11.4	0.0	0.0	
Variable : POLY*-values selected: 219					
Values	Acres	Hectares	%Selection	% Study	
219	90,194.9	36,528.9	100.0	4.6	
Total selected					
	90,194.9	36,528.9		4.6	
Total land area					
	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

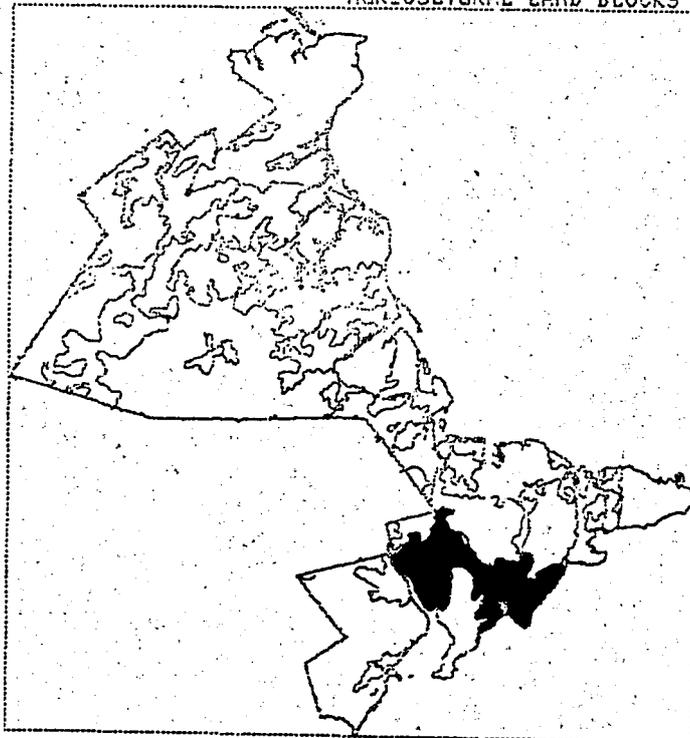


LAND RESOURCES OF BLOCK 220

*** SELECTION 17 Oct. 01/81 Page 1 ***	
Variable : PLUSE-values selected: All values	
Values	Acres Hectares %Selection * Study
8,525.6	3,444.2 38.9
19,623.2	7,728.7 38.4
41,133.4	17,471.9 48.7
5,324.8	2,104.3 5.1
1,219.0	493.3 1.1
6,727.2	2,748.8 9.3
19.5	4.2 0.0
Variable : AGRCL-values selected: All values	
Values	Acres Hectares %Selection * Study
99,527.2	26,347.5 63.9
10,103.2	4,091.2 9.5
6.2	2.5 0.2
16,002.1	6,430.0 15.1
12,597.2	5,102.1 11.9
523.2	205.8 0.4
Variable : POLY2-values selected: 220	
Values	Acres Hectares %Selection * Study
220	195,753.9 42,829.9 100.0
Total selected	195,753.9 42,829.9 5.4
Total land area	1,957,444.8 722,765.1

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

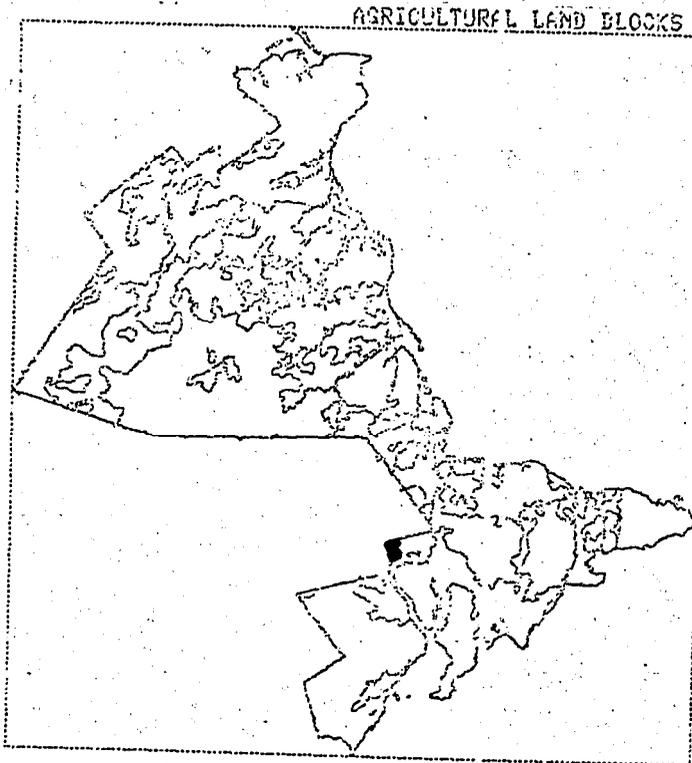
AGRICULTURAL LAND BLOCKS



LAND RESOURCES OF BLOCK 221

Variable	SELECTION 39	Oct. 61/21	Page	1	***
Variable : PLUS-values selected: All values					
Values			Hectares	%Selection	% Study
K	2,500.8	1,012.3		50.9	0.1
N	300.5	97.3		3.0	0.0
U	300.5	127.6		3.3	0.0
T	1,100.0	550.0		24.0	0.0
E	100.0	40.0		2.4	0.0
Variable : ACRL-values selected: All values					
Values			Hectares	%Selection	% Study
A	1,911.8	775.5		33.0	0.3
S	2,751.3	1,118.4		56.2	0.1
U	220.1	55.8		4.7	0.0
Variable : POLY-values selected: 22:					
Values			Hectares	%Selection	% Study
22	4,911.8	1,939.2		100.0	0.2
Total selected	4,911.8	1,939.2			0.2
Total land area	1,957,444.8	792,755.1			

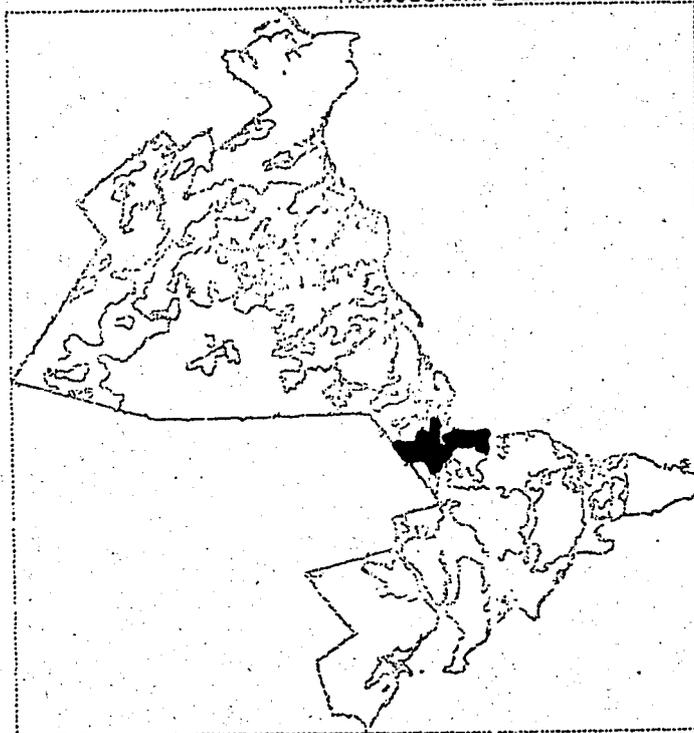
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



LAND RESOURCES OF BLOCK 222						
Variable	SELECTION 34	Sum	91/34	Page	1	XXI
Values	Area	Hectares	%Selection	% Study		
...	1,188.5	478.0	4.1	0.0		
...	1,812.3	655.0	5.8	0.0		
...	8,510.0	3,031.2	28.3	0.4		
...	9,701.6	3,848.6	37.1	0.4		
...	271.2	110.8	0.9	0.0		
...	5,923.0	2,411.9	21.5	0.3		
Variable	ACROL-values selected: 01	Area	Hectares	%Selection	% Study	
...	15,715.2	7,073.7	61.7	1.9		
...	7,240.5	3,147.3	28.0	0.4		
...	644.5	220.5	1.9	0.0		
...	188.0	78.0	0.5	0.0		
...	626.2	132.1	1.1	0.0		
Variable	POLY#-values selected: 231	Area	Hectares	%Selection	% Study	
...	27,715.3	11,254.7	100.0	1.4		
Total selected	27,715.3	11,254.7		1.4		
Total land area	1,957,444.8	792,765.1				

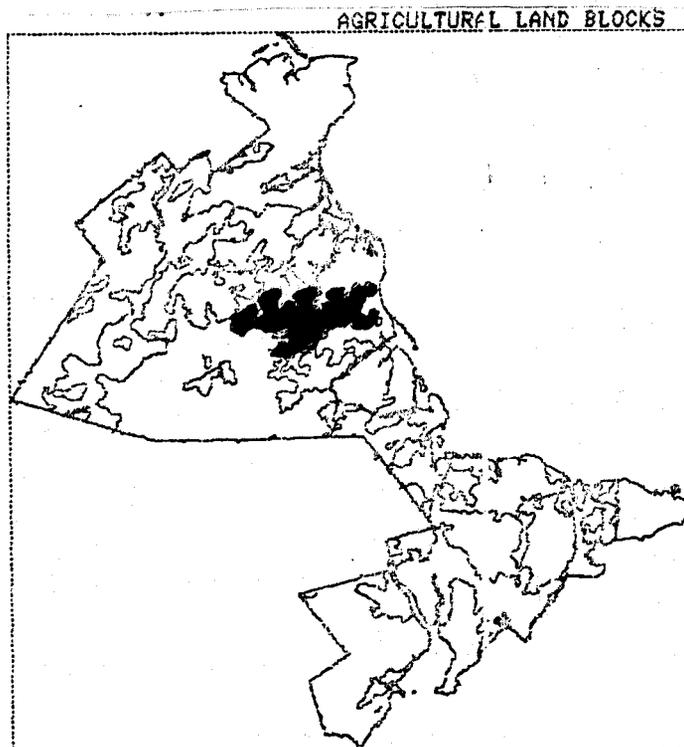
CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA

AGRICULTURAL LAND BLOCKS



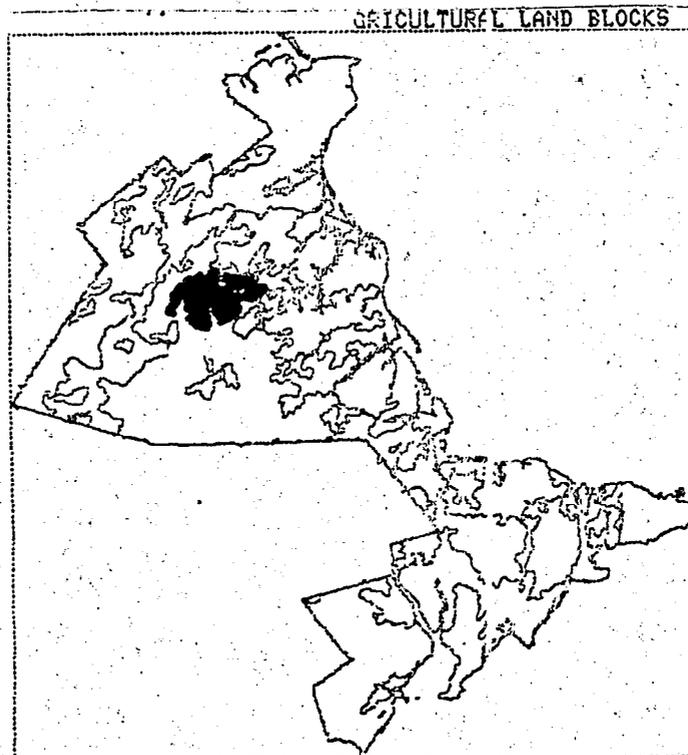
LAND RESOURCES OF BLOCK 225					
***	SELECTION 34	Occ. 01/81	Page 1	***	
Variable :	FLUGS-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
P	20,548.2	8,322.0	28.9	1.0	
Y	47,822.5	19,362.5	65.3	2.4	
U	2,894.7	1,172.3	3.9	0.1	
X	1,954.3	795.5	2.6	0.1	
Variable :	AGROL-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
U	57,459.7	23,275.2	78.4	2.9	
Y	12,285.1	4,967.4	16.7	0.6	
S	3,405.8	1,415.8	4.7	0.1	
Variable :	POLY-values selected:	225			
Values	Acres	Hectares	%Selection	% Study	
225	73,230.7	29,652.4	100.0	3.7	
Total selected	73,230.7	29,652.4		3.7	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



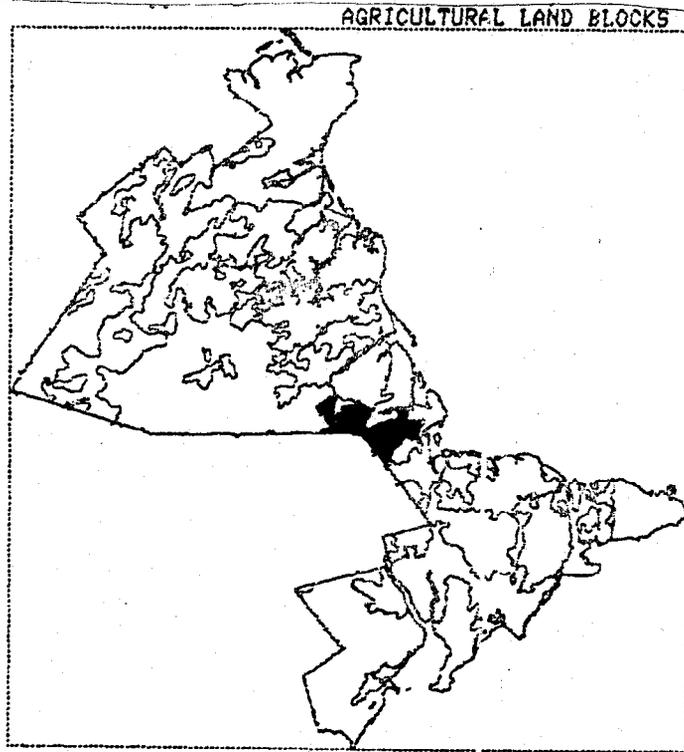
LAND RESOURCES OF BLOCK 226				
Variable	Acres	Hectares	%Selection	% Study
*** SELECTION 28 Oct. 01/81 Page 1 ***				
Variable : PLUSR-values selected: All values				
Values				
T	23,245.1	11,439.2	62.8	1.2
U	15,189.1	6,141.8	33.7	0.7
H	1,003.0	406.2	2.2	0.0
K	527.9	213.8	1.1	0.0
Variable : AGRCL-values selected: All values				
Values				
4	8,224.2	3,274.1	17.9	0.4
2	27,433.9	11,110.7	61.0	1.4
7	2,332.5	1,149.6	6.3	0.1
5	6,534.3	2,666.6	14.6	0.3
Variable : POLY2-values selected: 226				
Values				
226	44,941.1	18,201.1	100.0	2.2
Total selected	44,941.1	18,201.1		2.2
Total land area	1,957,444.8	792,765.1		

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



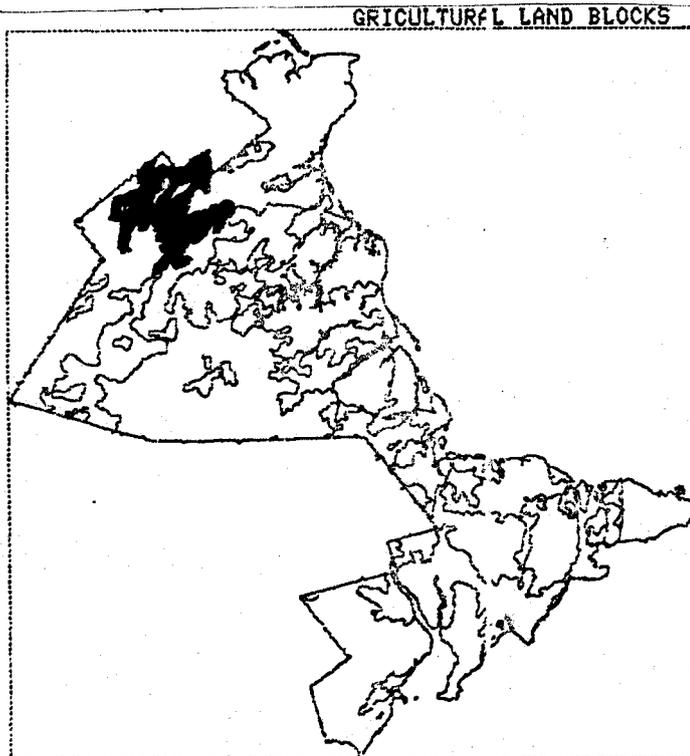
LAND RESOURCES OF BLOCK 223					
***	SELECTION 32	Oct. 01/81	Page 1	***	
Variable :	PLUS8-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
P	7,832.9	3,172.3	23.8	0.4	
U	6,640.2	2,689.2	20.2	0.3	
T	16,067.6	6,507.3	48.9	0.8	
K	2,259.5	915.1	6.8	0.1	
Variable :	AGRCL-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
3	27,748.6	11,238.2	84.5	1.4	
4	4,978.8	2,016.4	15.1	0.2	
7	72.7	29.4	0.2	0.0	
Variable :	POLY%-values selected:	223			
Values	Acres	Hectares	%Selection	% Study	
223	32,800.2	13,284.1	100.0	1.6	
Total selected	32,800.2	13,284.1		1.6	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS IIRECTORATE - ENVIRONMENT CANADA



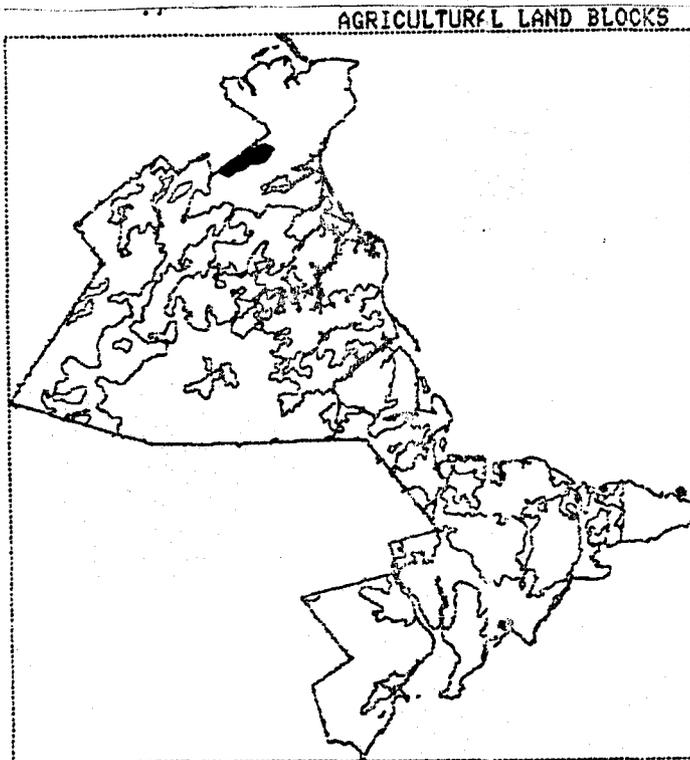
LAND RESOURCES (F BLOCK 227					
***	SELECTION 25	Oct. 01/81	Page 1	***	
Variable :	PLU68-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
K	5,311.8	2,151.3	6.3	0.5	
P	10,285.3	4,408.5	12.9	0.5	
T	50,371.6	22,830.5	67.1	2.8	
S	159.5	64.6	0.1	0.0	
U	9,583.9	3,883.5	11.4	0.4	
M	1,573.8	639.4	1.8	0.0	
Variable :	AGRL-values selected:	All values			
Values	Acres	Hectares	%Selection	% Study	
3	65,524.8	26,561.8	78.1	3.0	
4	16,936.4	6,859.2	20.1	0.8	
0	183.7	74.4	0.2	0.0	
7	783.2	309.1	0.9	0.0	
5	427.9	173.3	0.5	0.0	
Variable :	POLY#-values selected:	227			
Values	Acres	Hectares	%Selection	% Study	
227	83,896.2	33,977.9	100.0	4.2	
Total selected	33,896.2	33,977.9		4.2	
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



LAND RESOURCES OF BLOCK 228					
Variable	Acres	Hectares	%Selection	% Study	
*** SELECTION 30 Oct. 01/81 Page 1 ***					
Variable : PLUS3-values selected: All values					
Values					
T	3,013.2	1,220.3	38.9	0.1	
M	1,151.6	466.4	14.9	0.0	
U	3,563.6	1,443.2	46.1	0.1	
Variable : AGRCL-values selected: All values					
Values					
3	5,042.6	2,042.2	65.2	0.0	
7	1,937.3	784.6	25.0	0.0	
0	677.9	274.5	8.7	0.0	
4	70.6	28.6	0.9	0.0	
Variable : POLY%-values selected: 223					
Values					
228	7,728.6	3,130.0	100.0	0.3	
Total selected	7,728.6	3,130.0			0.3
Total land area	1,957,444.8	792,765.1			

CANADA LAND DATA SYSTEM - LANDS DIRECTORATE - ENVIRONMENT CANADA



**An Overview of the Canada Geographic
Information System (CGIS)**

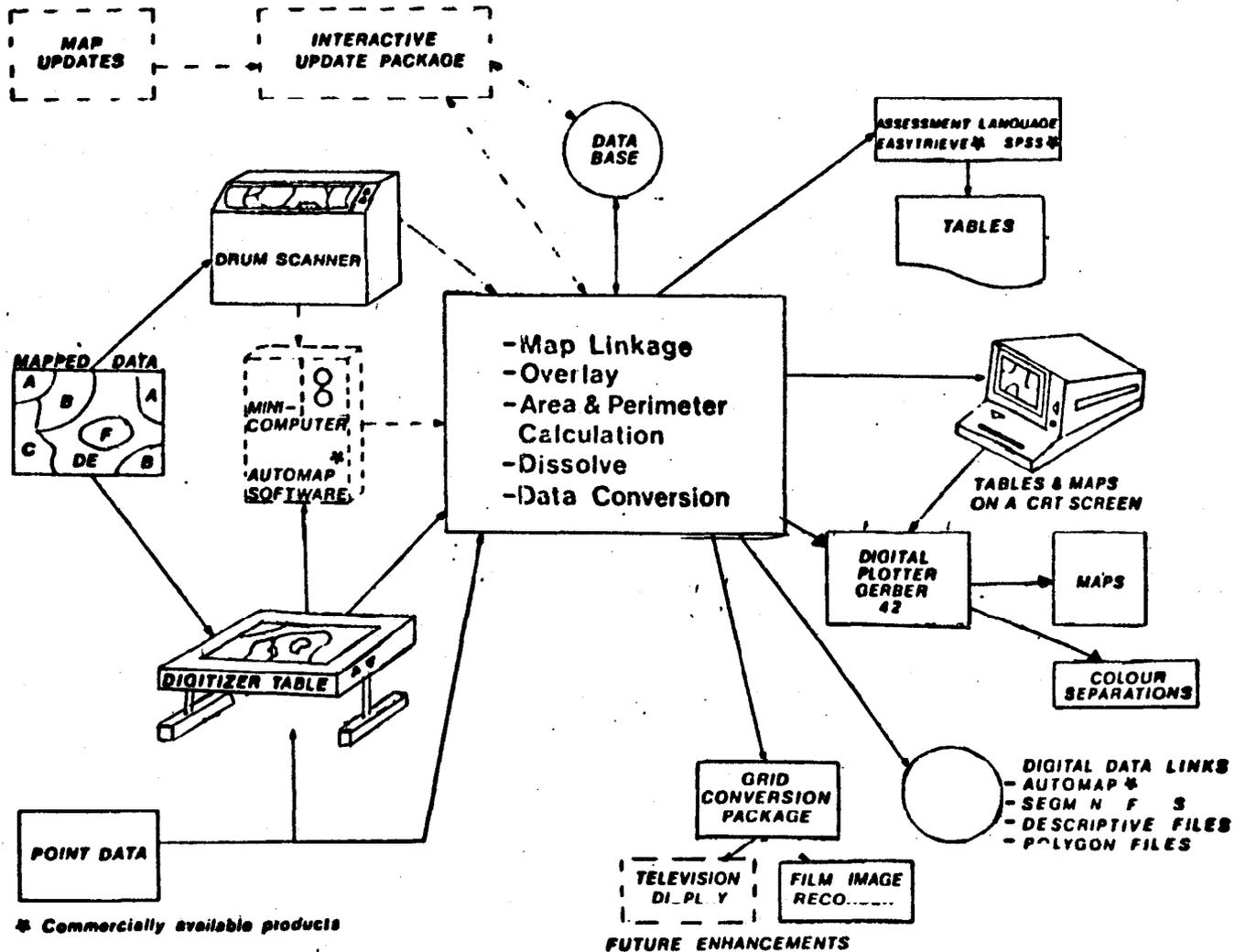
**Terry Fisher & Connie MacDonald
Lands Directorate
Environment Canada
Ottawa, Ontario
K1A 0E7**

Introduction

Planning and management of land resources requires an extensive base of physical, biological, social, and economic data. The computerized Canada Geographic Information System can efficiently handle this complex and dynamic data base. It can store, analyse, and present data for land use planning and management at national, provincial, regional, and local levels.

The Canada Land Inventory (CLI) was undertaken in the early 1960's as a cooperative federal-provincial effort. This program resulted in the production of over 12,000 map sheets pertaining to the capability of Canada's lands to support various uses. The Canada Geographic Information System was designed to read, store, manipulate, and analyse thematic map information.

At present, more than 3,500 maps have been incorporated into CGIS data base. Although the major data base in the system is that of the Canada Land Inventory, CGIS effectively handles any information which is mapped as polygons (map units) or as points.



Capabilities

Digitizing of Maps

CGIS was the first operational land data system to use a 'scanning process' on a routine basis for automated map digitizing. The use of a drum scanner ensures rapidity, accuracy, low cost, and the handling of a large number of maps. Line following digitizing, using a digitizing table, is also available for both polygon and point data. All image and descriptive data is carefully edited to ensure an error free data base.

AUTOMAP is a third method of digitizing data. During digitizing, the data is displayed on the computer-terminal screens providing the user with immediate verification. The data can be updated at any time during the digitizing operation. Development is currently underway to convert data from the Automap system to CGIS format. When this interface is complete, the CGIS will have the capability of accepting digital image data from a number of segment oriented systems.

The existing data base contains a wide variety of themes including land capabilities for Agriculture, Forestry, Recreation, Wildlife Ungulates and Waterfowl, Land Use, Ecological maps, Federal Land Holdings, Forest Inventory and many more.

Management of large Geographic Data Bases

On entry into the CGIS map boundaries are removed and the maps are divided into a number of units called frames. Each frame can be retrieved as an independent spatial unit. This structure greatly facilitates the creation and manipulation of country-wide data bases consisting of hundreds of input documents.

The user is afforded a high degree of flexibility in the definition of a study area; for example, he can select geometric figures such as circles and polygons, census boundaries, administrative boundaries, etc. The CGIS efficiently selects and processes only the data required to satisfy the user request.

Data Manipulation.

The unique file structure of the CGIS allows for the efficient implementation of a wide variety of manipulative operations. The most significant being the polygon overlay. In a single pass up to a 8 themes can be combined to create a composite file containing the image and classification information of all the intersected polygons. This file can be used to respond to queries such as where is the high capability agricultural land that is currently in non agricultural uses or to tabulate the acreage of low capability forest land in counties X, Y and Z.

Other manipulative facilities include reclassification of descriptive information, dissolving of boundary information, point-in-polygon, conversion to grid, projection changes, area and linear measurement.

Outputs of Statistical and Map Information

TABULATIONS

Many types of tables can be produced. These may include, for instance, the capability of land for a specific use on a provincial basis, or within a designated radius of any major urban centre in Canada, or within any study area defined by a user.

MAPS

Hard copy maps can be produced depicting a wide variety of themes and at any defined scale. Color maps may be produced through an interface with color "film image recorders", or through photo-mechanical methods.

DIGITAL FILES

Both tabular and map data can be prepared in digital form for direct input into various other data systems or into data analysis and manipulation systems such as the Statistical Package for Social Sciences (SPSS).

INTERACTIVE DATA BASES

An interactive data base is generally produced for each special study area. This allows the user, who is generally more familiar with his data, to query the data himself to produce maps and tabulations. The interactive graphics subsystem was designed for the user with very little computer systems background. The commands can be learned in a short period of time, and within a period of 1 or 2 days the average user can become reasonably proficient in use.

DEMONSTRATED USES

The CGIS is currently being used to satisfy the data handling requirements of large national programs including Federal Land Management (mapping and digitization of the boundaries of all Federal Lands in Canada); the Canada Land Use Monitoring program (development of sampling methodology to effectively and efficiently monitor land use change in Canada).

In addition the CGIS is being used to assist in Parks Management by providing access to a large base of ecological data and to assist in Forest Management in Nova Scotia by providing time series information on Spruce Budworm defoliation and for a variety of other special studies.

Access

Access to the system can be made anywhere a graphics terminal is available. The Lands Directorate currently has graphics terminals in its Ottawa, Halifax, Quebec City, and Burlington offices, and others are located at the Alberta Department of Environment in Edmonton, and the University of Manitoba in Winnipeg.

PLANNED RESEARCH AND DEVELOPMENT

A number of areas are actively being pursued including: improved techniques for the production of color maps, interactive color graphic output, investigation of raster to vector conversion algorithms and definition of standard formats for the interchange of data between geographic information systems.

