

THIS IS PAGE 70 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. J. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

6.0 URBAN LANDS

6.1 OVERALL SUMMARY

The Pioneer Shire Area has been the scene for very rapid growth in population numbers and in infrastructural investment from both the public and private sectors. The pattern of settlement within Pioneer Shire is very diffuse, there being no fewer than 12 long-standing residential neighbourhoods.

The current situation in which Pioneer Shire Council has found itself is that it is inevitable more cane land will be converted to urban use. It is also clear that there are building allotments stocks for perhaps six years' requirements in existence, but there is a need for concentration of future development into particular neighbourhoods capable of accommodating the 1987 populations and well beyond not only to solve some of the funding problems implicit in provision of engineering infrastructure, but also to achieve a much more integrated approach to social and recreational needs of the population. From the detailed study of growth trends in the last ten years and from a consideration of the population forecasts that have been made in other studies to the year 2001 and the Five Year Works Programmes the Shire Council considers it is essential that the next five years' urban development be restricted as much as possible to eight neighbourhoods, namely:

Shoal Point - Buccasia
 Andergrove - Beaconsfield
 Slade Point
 North Mackay
 Mount Pleasant - Glenella
 Eimeo - Black's Beach
 Ooralea - Paget, and
 Walkerston.

Also, because of the infrastructural deficiencies and lack of funding, residential development will need to be directed chiefly at four of the neighbourhoods, viz.

Shoal Point - Bucasia

Andergrove - Beaconsfield

Mount Pleasant - Glenella, and

North Mackay, where industrial development also appears inevitable in the Cremorne and Vines Ck area.

In reviewing the Shire Council's basis of preparing its Five Year Draft Policy Plan it should be noted the Council has endeavoured to determine individual neighbourhood areal requirements to the year 2001; and to delineate neighbourhood development areas capable of rational development to the year 1986 as a first stage and capable of logical infilling thereafter to the year 2001. This concept has seemed a reasonable enough one to justify closer study.

The Urban Expansion on Canelands Study has assessed future urban development requirements to the year 2001 on a high and low projection basis. Adopting the high projection case for conservatism, Table 31 presents a summary of future urban areas requirements for the study area considered within Pioneer Shire.

TABLE 31
URBAN AREAL REQUIREMENTS TO YEAR 2001
HIGH PROJECTION

* Includes 104 ha in Mackay City at Paget.

DEVELOPMENT	INCREMENTAL AREA REQUIRED - ha.
URBAN (Residential + Commercial + Relevant Open Space Provision of 10%)	1014
INDUSTRIAL (+10% Open Space Pro- vision)	328 *
TRANSPORTATION + OTHER (+10% Open Space Provision)	338
REFUSE DISPOSAL	22
TOTAL	1702 ha

THIS IS PAGE 71 OF THE STRATEGIC PLAN MADE BY
Pioneer Shire COUNCIL, AND APPROVED
BY THE GOVERNOR IN COUNCIL ON 22.11.83
H. N. [Signature]
DIRECTOR OF LOCAL GOVERNMENT

The calculation of 1702 ha makes no allowance for 889 ha of Mackay Harbour Board lands and reserves. The principal utilisation of Harbour Board lands should relate to port-orientated purposes. On present trends only a small fraction of industrial lands uptake will occur at the Harbour in the short term, although a major uptake is certain in the fullness of time.

The Draft Pioneer Shire Council Statutory Town Plan makes provision for zoning 660 ha of Harbour Board land as Special Facilities. Under this zoning all port-orientated uses may be established only with the consent of the Council. The Statutory Town Plan takes note of the fact the enlarged boundaries of Mackay City include 104 ha of Industry Zoning in the vicinity of Paget and the aerodrome. These lands within Mackay City and the Harbour lands should accommodate foreseeable industrial needs to the year 2001.

In reviewing these industrial lands at Paget it is also to be noted the future Mackay railway complex will be sited at Paget, and the area subject to ultimate airport expansion is deemed to be located within Mackay City.

Accordingly, it seems reasonable that a Policy Plan for control of urban growth must recognise the force and extent of industrial zonings under the Statutory Town Plan of Mackay City Council as well as envisaging the shape and dimensions of future development in peripheral areas within Pioneer Shire in the vicinity of the Mackay airport.

In determining the urban areal requirements to the year 2001 of 1,702 ha, the 889 ha of Harbour Board lands has been noted.

THIS IS PAGE 72 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacobs
 DIRECTOR OF LOCAL GOVERNMENT

The Pioneer Shire Strategic Plan has considered the Harbour Board lands as suitable for Special Industrial and Port Orientated purposes. While it is not possible to accurately predict how much of the 889 ha will be required by heavy industry associated with the Harbour to the year 2001, it has been assumed that of the 328 hectares of incremental industrial land predicted to be required to the year 2001, only 200 hectares will be required at Paget while the remaining 128 hectares will be provided for on Harbour Board lands. Table 32 refers.

TABLE 32
TOTAL URBAN AREAL LAND REQUIREMENTS TO YEAR 2001

DEVELOPMENT	INCREMENTAL AREA REQUIRED (ha)	COMMENTS
GENERAL URBAN	1014	Area to be proportioned among the nine neighbourhoods within Study Area
INDUSTRIAL (Heavy)	200 *	Only 200 ha of the 328 ha will be required at Paget
INDUSTRIAL (Special)	889	Remaining 128 ha to be provided for on Harbour Board lands
TRANSPORTATION + OTHER	338	Definite locations have been decided upon
REFUSE DISPOSAL	22	Area to be proportioned among the nine neighbourhoods within Study Area. Assumes reclaimed tips used for open space.
TOTAL	2463	

* In Mackay City Area.

THIS IS PAGE 73 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.82
H. N. Jacobs
 DIRECTOR OF LOCAL GOVERNMENT

Tourism requires special consideration because of the obvious interest being shown in most centres of Queensland in the subject. Workforce analyses attest to the importance of the tourist and travel industry. Further indicators are the strong regional support for the Whitsunday Wonderworld organisation and the recognition of the importance of the work of the State Government Tourist and Travel Organisation.

This strategic study lists the areas considered of paramount importance for tourist development:

- a) Offshore: Brampton Island
Lindeman Island
S. Bees Island
Keswick Island
Newry Island
- b) Mainland: Lambert's Beach (Sisters to Harbour)
Black's Beach (part)
Bucasia (part)
C. Hillsborough
Halliday Bay
Seaforth (part)

It is noted, too, individual developments may also take place at other places such as Eimeo, Dolphin Heads, Midge Point and St Helen's Beach.

In listing these tourist areas, it is noted there are serious deficiencies in the matters of roads, water supply and sewerage facilities in all cases excepting Lambert's Beach. There are few boat ramps or mooring facilities at the mainland sites and a great deficiency in camping and public recreational facilities is discernible.

Beach conservation also requires consideration by the Council when individual site applications are being considered.

THIS IS PAGE 74 OF THE STRATEGIC PLAN MADE BY
Shine CENTRAL AND APPROVED
BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. J. Jacobs

DIRECTOR OF LOCAL GOVERNMENT

6.1 DEVELOPMENT PROJECTIONS AND AREAL REQUIREMENTS

6.1.1 Residential Development Trends

Building approval figures for both Pioneer Shire Council and Mackay City Council over the period 1966/67 to 1980/81 in yearly intervals were obtained for sub-areas (neighbourhoods) comprising the study area.

The individual neighbourhoods considered in this respect are:

1. Bucasia - Shoal Point
2. Andergrove - Beaconsfield
3. Mt Pleasant - Glenella
4. North Mackay
5. Slade Point - Harbour
6. Ooralea - Paget - Dundula - Te Kowai (generally called Ooralea - Paget)
7. Eimeo - Black's Beach
8. Walkerston
9. Mackay City:

It is desirable to include some treatment of the Mackay City development to ensure double-counting does not arise.

6.1.2 Urban Areal Requirements

Detailed assessments have been made in previous sections as regards overall population and development trends to the year 2001.

From these previous assessments, the five year trends for 1981 - 1986 have been assessed and are set out in the following five tables (Tables 33 to 37 inclusive) for each type of development. All figures are based on the high

Shine 75

Pioneer
24.11.83
H. N. J. [Signature]
DIRECTOR

projection case of development adopted by the Urban Expansion on Caneland Study, and modified by examination of the actual trends in population.

TABLE 33
PROJECTED URBAN POPULATION
PIONEER SHIRE
1981 - 2001

YEAR	PROJECTED POPULATION	ESTIMATED INCREMENTAL POPULATION	ESTIMATED INCREMENTAL RESIDENTIAL AREA (ha)*	ESTIMATED INCREMENTAL COMMERCIAL LAND §	REFUSE¶	TOTAL
1981	22957					
1986	27181	4224	169	7	4	180
1991	32033	4852	194	8	5	207
1996	37837	5804	232	10	6	248
2001	44537	6702	268	12	7	287
TOTAL			863	37	22	922
TOTAL + 10% Open Space						1014 ha

* 25 persons per ha.

§ 1 ha/590 no. popn.

¶ 1 ha/1000 no. popn.

MCC population excluded

TABLE 34
INCREMENTAL INDUSTRIAL NEEDS

YEAR	POPULATION (no)	ESTIMATED INCREMENTAL DEVELOPMENT (ha)
1981	22957	
1986	27181	21
1991	32033	24
1996	37837	29
2001	44537	34
TOTAL		108

* 1 ha per 200 people.

THIS IS PAGE 76 OF THE STRATEGIC PLAN MADE BY
PIONEER SHIRE COUNCIL AND APPROVED
BY THE GOVERNOR IN COUNCIL ON 24.11.83

H. N. Jacobs
DIRECTOR OF LOCAL GOVERNMENT

TABLE 35
TRANSPORTATION PLUS OTHERS

DEVELOPMENT	AREA REQ. (ha)
Rockleigh Bridge	127
Mackay - Bucasia Corridor	36
Rail Access: Mackay Harbour - Erakala Corridor	132 *
TOTAL	295

* Timing for the Paget - Erakala corridor is uncertain.

TABLE 36
OPEN SPACE

DEVELOPMENT	AREA REQ. (ha)
Residential	169
Industrial	21
Commercial	7
Transportation	295
Refuse	4
Sub-Total	496
Therefore, Open Space - Assumed 10%	50

Table 37 presents a summary of incremental land requirements for the next five years.

TABLE 37
SUMMARY OF INCREMENTAL LAND REQUIREMENTS FOR FIVE YEARS

DEVELOPMENT	AREA REQ. (ha)
Residential	169
Industrial	21
Commercial	7
Transportation	295
Open Space	50
Refuse Disposal	4
TOTAL	546 ha

THIS IS PAGE 177 OF THE STRATEGIC PLAN MADE BY *Shine*
BY THE GOVERNOR IN COUNCIL ON 24.11.93
APPROVED
H. N. Jacob
DIRECTOR OF LOCAL GOVERNMENT

6.1.3 Proportioning Urban Areal Requirements

The individual urban areal trends have been assessed by the application of projected building statistics to the total incremental urban area predicted for the study area and thereby utilising them as a basis for proportioning the projected urban development in each individual area for the next five years. The Mackay City figure is an assumption

TABLE 38

TOTAL RESIDENTIAL REQUIREMENTS FOR FIVE YEARS

NEIGHBOURHOOD	REQUIRED AREA (ha)		
	Residential	Open Space	Total
1. Bucasia - Shoal Pt	19	2	21
2. Andergrove - Beaconsfield	40	4	44
3. Mt Pleasant - Glenella	16	2	18
4. North Mackay	9	1	10
5. Slade Pt - Harbour	14	1	15
6. Ooralea	4	0	4
7. Eimeo - Black's Beach	9	1	10
8. Walkerston	5	1	6
9. Mackay City	53	5	58
TOTAL	169	17	186

It is to be noted that the proportioning of the remaining urban areal requirements namely Industrial, Commercial, Transportation, Open Space and Refuse Disposal on the Draft Five Year Policy Plan will be effected by giving cognisance to the policy matters stated by Pioneer Shire Council as regards future urban development and requirements.

THIS IS PAGE 79 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.82
A. J. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

7.0 RURAL AND TOURIST DEVELOPMENT

7.1 SUGAR INDUSTRY

In a Strategic Study prepared for the Queensland Government it was reckoned the four mills of the Shire had the following needs and capabilities in regard to arable land for the expansion of sugar-cane assignments:

	Needs to Year 1990	Available Area
Racecourse Mill	1879 ha	9900 ha
Farleigh Mill	1754 ha	6099 ha
Pleystowe Mill	1254 ha	2023 ha
North Eton Mill	621 ha	3035 ha

The available land total requires careful consideration. For example, available land close to the mill is scarce, and whilst the overall total of available land is reassuring, much of the land is distant from the mills concerned. Land is scarce at Pleystowe and the expansion of Walkerston requires scrutiny. Valuable irrigated canelands in and around Racecourse Mill require conservation, but this will be difficult because of the pressures of urban expansion, and the proximity of such lands to Mackay City.

7.2 COASTAL MANAGEMENT

The length of the Pioneer Shire coastline is 170 km and in the 100 years of settlement there has been a history of erosion at a number of the beach resorts, notably Lambert's Beach, Slade Point, McCready Creek, Black's Beach, Eimeo, St Helens, Ball Bay and Seaforth.

THIS IS PAGE 80
Shire
BY
24.11.83
H. N. Jacob
Pioneer

The coastal environment is a fragile one consisting of primary sand dunes and sometimes, as is evidenced in the existing neighbourhood of Andergrove, secondary and tertiary dunes, and historically in areas of great fluvial deposition, such as the flood plain of the Pioneer River and St Helens Creek, the coastline has managed to prograde by a combination of fluvial deposition from the river systems, fluvial deposition because of the marine bathymetry and tidal patterns and the construction of conditions consisting of aeolian deposits emanating from the dried beach shelves at low tide and transported by the prevailing southeasterly and easterly winds.

During the cyclonic season bad weather may be experienced, and quite frequently the climatology of the Mackay region is beset with cyclonic "lows" which are associated with rises in sea levels owing to atmospheric pressure changes, tidal surge and wave action of a primary and secondary variety.

The Beach Protection Authority has provided the Pioneer Shire Council with a suggested alignment with a buffer zone in which only Open Space use may be tolerated. There have been objections in some instances to this buffer zone where there has been a pattern of long-existing subdivision. However, it is thought reasonable that there be a buffer zone for without some approach along these lines it is difficult to foresee a rational mode of development in the future.

The locality of Black's Beach illustrates typical problems being encountered. The Town of Black's Beach has been the subject of detailed study from the viewpoint of the history of land subdivision. It is noteworthy that Esplanades were provided to the more northern allotments - Nos. 1 to 17 on

THIS IS PAGE 81 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
 A DIRECTOR OF LOCAL GOVERNMENT

R.P. 13050 - in 1954 when the Estate of S.E.K. Brown was subdivided. At that time a 10 metre Esplanade was set aside. At the southern end, the land now occupied by Dr R. A. Patterson was provided with approximately a one chain Esplanade, notwithstanding the fact that a comparison of the High Water Mark surveys between 1930 and 1966 showed a recession in the coastline of 17 metres.

Perhaps the most stable and satisfactory Esplanade in the whole of the Shire is that constructed by the Shire Council itself as part of the Lambert's Beach subdivision when an Esplanade width of 100 metres was provided plus an area to be lost to or gained by the sea. Notwithstanding two cyclones since the construction of the Esplanade, it is clear that the Lambert's Beach situation is a success and, were it possible to impose upon all coastlines in the Shire a buffer of this width, it is true to say none of the present problems experienced by the Council at its eroded beaches would have arisen. However, this is to ignore the fact of subdivision, much of which goes back to the earliest period of the 100 years of history of local government in the area.

At the present time there is no overall published basic engineering study of the basic problem of littoral transportation, which can be used as a framework of reference. Such a study would require a great outlay and considerable time, as very little data has ever been collected. In this Pioneer Shire is not unique and the comments that have been made would apply with equal relevance to any Local Authority in Queensland. The Harbours and Marine Department through the Beach Protection Authority is undertaking a series of surveys of the entire coastline of Queensland and it is proper that that Authority undertake such a study, for it is important

THIS IS PAGE 82 OF THE STRATEGIC PLAN MADE BY
Shire COUNCIL AND APPROVED
BY THE GOVERNOR IN COUNCIL ON 24.11.83

H. N. Jacob
DIRECTOR OF LOCAL GOVERNMENT

not to judge any of the beaches of Pioneer Shire in isolation from one another and it seems equally important not to judge Pioneer Shire coastline in isolation from the rest of the coastline.

Accordingly, the Shire Council is not in a position, unless it undertakes its own major littoral study, to advance a better suggestion than that contained in a plan of buffer areas which has been supplied already by the Beach Protection Authority for Council's guidance.

It is a fact too that Council, whenever confronted by a proposal for a littoral subdivision or a rezoning proposal, has always referred the matter to the Beach Protection Authority for engineering advice. This has not proved to be an entirely satisfactory policy for, while developers have been warned of the Beach Protection Authority's comments, some have persisted in building in what is clearly an unstable environment.

It is therefore considered that in the interim until such time as the Beach Protection Authority Littoral Transportation Survey results are known - and it is not expected that these will be known for some time - Council should adopt the buffer plans as suggested by the Beach Protection Authority in their entirety and, at the same time, adhere to its existing policy of referring each and every development proposal affecting coastline lands in the Shire to the Beach Protection Authority in the first instance.

It will be expressly understood, therefore, that areas between the High Water Mark and the line shown in red on the Strategic Plan will be regarded as suitable for only Open

THIS IS PAGE 83 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. W. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

Space development until the developer can show to Council's satisfaction that the case is otherwise.

Another important aspect in coastal management is the protection of the environment taking into account the built environment and activities of man as they currently exist. The coastal dunes are being very badly damaged in places such as Lambert's Beach and Bucasia through the depredations of trail-bike riders. Wherever fencing has been erected to prevent active ingress and egress of humans and animals, vehicles and the like, as is evidenced at Lambert's Beach and at Ball Bay in Division 3, the frontal dune is largely intact. The legal complications of gainsaying the safety of the frontal dune are formidable. Were there a perfect set of By-laws or Statutes to ordain the activities of mankind so that no damage to the dunes were to result, as a result of the operation of the Shire's coastline policy, such a policy would be impractical in many cases and prohibitive in cost in others.

The Strategic Plan endeavours therefore to deal with the questions of development proposals and man's activity in both the developed and undeveloped beach situations.

THIS IS PAGE 84 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

8.0 PIONEER SHIRE COUNCIL DRAFT FIVE YEAR POLICY STATEMENT

8.1 BACKGROUND PAPERS & WRITINGS

The Mackay Urban Area has been the subject of a number of significant planning studies since 1970. The policy statements which have been approved in principle by the Pioneer Shire Council rely for base information on eight published studies which are entitled:

MACKAY REGIONAL STUDY - Rankine & Hill, Consulting Engineers, 1971 - Commissioned by Coordinator General's Department, Main Roads Department, Mackay City Council, Pioneer Shire Council.

PIONEER RIVER PLAN OF DEVELOPMENT - Ullman & Nolan, Consulting Engineers, 1973 - Commissioned by Joint Committee of Pioneer River Improvement Trust and Upper Pioneer River Improvement Trust.

SOCIAL GEOGRAPHY STUDY OF PIONEER SHIRE AND PART OF MACKAY - R. G. Munro, Geography Department, James Cook University of North Queensland, 1975 - Commissioned by Pioneer Shire Council.

TOWARDS A STRATEGIC PLAN FOR THE MACKAY REGION - Ullman & Nolan, Consulting Engineers, 1976 - Commissioned by Mackay Regional Coordination Council (Coordinator General's Department).

A PARK SYSTEM FOR PART OF THE PIONEER SHIRE - Arne Fink, Landscape Architect, 1977 - Commissioned by Pioneer Shire Council.

MULTI-MODAL CORRIDOR - BAKERS CREEK-ERAKALA-MACKAY HARBOUR - Ullman & Nolan, Consulting Engineers, 1977 - Commissioned by Coordinator General's Department.

STUDY OF EFFECT OF URBAN EXPANSION ON CANE GROWING LANDS, MACKAY - Ullman & Nolan, Consulting Engineers, 1978 - Commissioned by Coordinator General's Department.

SOCIAL PLANNING NEEDS AND OPTIONS IN MACKAY - Dr R. C. Munro, Northern Rivers CAE, 1980.

THIS IS PAGE 85 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
A. J. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

In regard to the important question of land for cane expansion, the Strategic Plan relies on unpublished information from the DPI Conservation Survey of the Mackay region currently in progress.

Perhaps more than most regions in Queensland, with the possible exception of the Moreton Region, the Mackay Region and, in particular, the Mackay Urban Area has been studied in great detail and data for the area has now been collected and systematized to a very high level of accuracy. There has been an essential need for all the foregoing studies because the local government of the Mackay Urban Area is split between the Mackay City Council and a fast-growing number of urban centres in Pioneer Shire Council.

8.2 URBAN AREAL REQUIREMENTS

The total urban areal requirements to cater for the envisaged urban development in the next five years have been assessed as 546 ha. (Table 37)

The areal requirements for the individual neighbourhood comprising the total study area for the next five years are summarized in Table 38. In addition, all the residential, industrial, commercial and transportation figures include 10% open space provision.

Further it has been assumed that the commercial area comprises the provision of hotel sites (4.0 ha.) and shopping complex sites (3.0 ha.), in areas which reflect Pioneer Shire Council's stated policies.

THIS IS PAGE 86 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
A. N. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

Tourism has been attributed as leading to development in a number of beach centres. The areas likely to be developed are given in Table 39.

TABLE 39
Provisions for Tourist Uses

Location	Area (ha)
Midge Point	5
St Helen's Beach	5
Seaforth	30
Halliday Bay	24
Shoal Point - Bucasia	50
Black's Beach North*	30
Black's Beach South*	40
Lambert's Beach	20
TOTAL	Say 200 ha

* Both beaches are north of McCreedy's Creek.

8.3 DRAFT FIVE YEAR POLICY PLAN

8.3.1 Provisions

All of the nine residential neighbourhoods summarised in Table 38 are envisaged to be major growth areas. That is to say, growth within Mackay City is also anticipated.

Provisions adopted in this Pioneer Shire Strategic Plan have made allowance for urban development to the year 1986 and for rational development beyond to the year 2001. At the same time, the Council is allowed a considerable measure of flexibility with regard to land use changes in any of the particular neighbourhoods. The provisions are summarised in Table 40, as they relate to eight neighbourhoods within Pioneer Shire.

THIS IS PAGE 87 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. J. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

TABLE 40
STRATEGIC PLAN PROVISIONS AND NEEDS 1981 - 1986

NEIGHBOURHOOD	General Urban Purposes	Area provided by Strategic Plan (ha.)				TOTAL (excluding Transportation + Other)	NEEDS 1981 - 1986
		Industrial	Special Industrial	Transportation + other	Refuse Disposal		
1. Shoal Point-Bucasia	108	-	-		9	117	21
2. Andergrove-Beaconsfield	213	-	-		10	223	44
3. Mt. Pleasant-Glenella	159	-	-	338 ha. required: represented in	10	169	18
4. North Mackay	56	-	-	thick black line	1	57	9
5. Slade Point - Harbour	92	-	889	form on Policy Plan	17	998	n.k.*
6. Ooralea - Paget	116	200	-		7	323	4
7. Walkerston	46	-	-		7	53	8
8. Eimeo - Blacks Beach	62	-	-		11	73	10

* The fact that needs are not presently known does not in this case invalidate the plan because of the surplus supply.

8.3.2 Special Provisions for Coastal Management

This Strategic Plan expressly indicates that areas of land between the toe of the frontal coastal dunes and the line shown in red on the Strategic Plan will be regarded prima facie as being suitable for only parks, recreational or approved rural pursuits until a subdivider/developer/owner/occupant can show to Council otherwise is the case. Wherever esplanades exist, no future subdivisions will be permitted to immediately adjoin the esplanade forming part of the buffer area as has occurred in the past. Developers will be expected to design new subdivisions with a frontage to a service road or street which can adjoin the esplanade which will be fenced and access across the esplanade will be by way of points of access fixed by the Council. As funds become available, Council will develop the esplanade as parkland.

Where the development proposal is an application for the construction of one building residence, a building permit will be issued subject to the warning the reservations expressed in any opinion that may be offered by the Beach Protection Authority at the request of the Council to the builder of the house are to be noted and that the Pioneer Shire Council takes no other responsibility towards the protection of the house other than the guideline concerning anti-erosion works described later in this policy statement.

THIS IS PAGE 88
 OF THE STRATEGIC PLAN MADE BY
 COUNCIL, AND APPROVED
 24.11.83
 H. J. J.
 BY THE GOVERNOR IN COUNCIL
 DIRECTOR OF LOCAL GOVERNMENT

The foregoing statements are made without limiting in any way the generality of the provisions of the Statutory Town Plan which exists for part of Divisions 1 and 2 and Division 3. Similarly, the generality of the provisions of the Town Planning and Subdivisional By-laws presently in force within the area of Pioneer Shire Council are not limited in any way.

In the event that residents and/or ratepayers seek Council's policy on the liability for the cost of anti-erosion works, such as rock protection, Council hereby sets out the following policy:

- (a) It will allow private landowners to undertake works on private property fully at their expense in approved circumstances. With respect to these works which may be undertaken solely for the protection of private lands, owners will be charged for any works undertaken by Council or for any materials supplied by Council over a five year period with interest on outstanding moneys being charged at 5% per annum.

"Approved circumstances" is to mean circumstances where intended anti-erosion works fit within the scope of works that are approved of by the Beach Protection Authority and which will not cause deleterious effects to other private property or Council Esplanades as a consequence of their having been undertaken.

- (b) Where such private property is separated from the sea by an Esplanade, Council is prepared to allow property owners to carry out works of an anti-erosion nature to the Esplanade of an approved design, in approved circumstances, and will subsidize the work to a total cost of 50%.

"Approved circumstances" is to mean circumstances where intended anti-erosion works fir within the scope of works that are approved of by the Beach Protection Authority and which will not cause deleterious effects to other private property or Council Esplanades as a consequence of their having been undertaken.

THIS IS PAGE 90 OF THE STRATEGIC PLAN MADE BY
Shine COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. J. Jacobs

DIRECTOR OF LOCAL GOVERNMENT

The 50% apportionment of the work which is to be met by private funds will be charged for if undertaken by the Council over a five year period with interest on outstanding moneys being charged at 5% per annum.

8.4 AIMS & GOALS

8.4.1 Residential Neighbourhoods

The main aim of the Pioneer Shire Strategic Plan is therefore to develop eight residential neighbourhoods capable of accommodating the 1986 populations and well beyond so that at complete development each neighbourhood would be provided with appropriate business and commercial facilities, appropriate educational facilities, adequate parkland, playgrounds and sporting facilities. Each neighbourhood is to provide a reasonably self-contained urban environment with the exception of specialist business and commercial establishments and professional, including medical services. To this end a minimum population number of 2,000 per neighbourhood is the aim. It is also the aim that each of the eight neighbourhoods will have good interconnecting access with the other neighbourhoods, Mackay City and the regional trunk road system.

It is noted that two of the neighbourhood unit populations were expected to fall short of the 2,000 number so that not much improvement in educational facilities can be predicted in the five year period at these two localities.

In the social geography survey undertaken by the James Cook University in 1975, the attitudes of residents to satisfaction or dissatisfaction with the urban environment was tested over 12 neighbourhoods, with respect to 24 features. Table 41 provides the summarised position as measured in the survey.

THIS IS PAGE 91 OF THE STRATEGIC PLAN MADE BY
 Pioneer Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
 H. J. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

TABLE 41
RESIDENTS' SATISFACTION WITH URBAN ENVIRONMENT
(Mean of 24 Aspects of Environment)

NEIGHBOURHOOD	SATISFIED	DON'T KNOW OR UNCERT- TAIN	NOT SATIS- FIED
North Mackay	55.0%	15.4%	29.6%
Ooralea - Paget	47.9%	9.2%	42.9%
Shoal Point	35.0%	26.0%	39.5%
Bucasia	32.1%	11.1%	56.8%
Slade Point	22.7%	43.9%	33.4%
Andergrove	37.9%	7.0%	55.1%
Beaconsfield	43.7%	16.0%	40.3%
Walkerston	40.0%	9.7%	50.3%
Glenella	34.4%	44.1%	21.5%
MACKAY CITY	61.9%	14.2%	23.9%

As a primary aim, the Pioneer Shire Council desires to reduce the percentage of dissatisfaction with the urban environment to 25% within these neighbourhoods exhibiting rapid growth in the five year life of the Strategic Plan. With the exception of North Mackay, where a principal source of discontent has been removed by construction of an Olympic swimming pool, it is clear the aspirations of the residents would best be met by a concentration of the urban development around the neighbourhoods. Funding constraints and existing growth patterns and arable land requirements necessitate a slower tempo of improvements at Walkerston.

The basic aim of the Strategic Plan is to overcome the following principal deficiencies in the period outlined in the Munro Reports.

THIS IS PAGE 92 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacobs
DIRECTOR OF LOCAL GOVERNMENT

In its planning, Pioneer Shire Council foresee the need to keep in mind the youthfulness of the population. Table 42 derives age groups based on the 1976 Census results.

TABLE 42
AGE COMPOSITION OF PIONEER SHIRE URBAN POPULATION

AGE (YEARS)	PERCENTAGE OF TOTAL POPULATION	REMARKS
0-3	9	Infants
4-5	5	Preschool children
6-13	18	Primary school
14-18	9	Secondary school
over 18	59	Workforce & others

The results of the 1981 Census not yet to hand will be studied and policies adapted.

8.4.2 Industrial Lands

The Pioneer Shire Council proposes to group port-orientated industries within a Special Facilities Zone immediately adjacent to the Mackay Harbour and serviced by the Harbour Road - Slade Point Road system and a rail/road corridor from Erakala.

It is another main recognition of the Pioneer Shire Council Draft Strategic Plan that it will be desirable for Mackay City Council to concentrate heavy industry at Paget, and the Bruce and Peak Downs Highways. If achieved, this will do much to prevent the passage of noisy traffic through Mackay City, North Mackay and Mount Pleasant, while at the same time the environment which is prone to airport noise would

THIS IS PAGE 93 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

not be downgraded. The Council intends that the residential neighbourhoods be free of all but small service industries necessary to the well-being of the neighbourhoods.

8.4.3 Rural Lands

The Pioneer Shire Strategic Plan recognises the major importance of the sugar industry to the economy of the region and makes every endeavour to restrict capricious transfer of cane lands from agriculture to urban purposes and to restrain loss of cane lands to a minimum consistent with the residential settlement patterns described in the Strategic Plan.

Nevertheless, there has to be some restriction of future urban area in the Parish of Howard for two reasons. Some of Racecourse Mill's best irrigated land is affected and the extent of the proposed urbanisation should be restricted, because of the difficulties inherent in providing sewerage reticulation and adequate drainage.

8.5 MEANS

The Council has resolved that the means of achieving the above goals and aims will lie in adopting this Strategic Plan and to direct planning policies to achieve the stated aims and goals for social, recreational and community affairs. It is claimed that many of the engineering infrastructure deficiencies will be overcome by the Council's present works programme, if urban development is kept within the neighbourhoods in the next five years.

8.5.1 Neighbourhoods and Industrial Estates

It will be noted that the Pioneer Shire Council Strategic Plan as presented makes provision for future urban

THIS IS PAGE 94 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

development areas in excess of the projected five year areal requirements as determined in the previous subsections. There are many sound reasons for this, the major one being that policy planning for projected development is best viewed from a meso-scale rather than a micro-scale approach. In addition, since the projected five years development area has been determined by infilling in and around existing development, it would be unduly inhibiting to Council and developers alike to include only a small area when development could occur anywhere in a larger local area without incurring significantly higher costs or precluding the practicability of service provisions or downgrading of the environment. Further, as regards residential development, not all existing property owners may wish to subdivide and a greater area would need to be provided in the Strategic Plan to compensate for this.

8.5.2 Cultural Activities

The Pioneer Shire Council has opened libraries at Walkerston and North Mackay. It has stated it has a policy of seeking to participate in a regional library if the cooperation of other neighbouring Local Authorities can be enlisted and specifically it seeks ultimately to establish a major theatre centre in either Mackay City or Pioneer Shire as a joint venture between the Shire Council and City Council by way of a Theatre Board or Committee.

It employs community music and art officers and for the present it is providing buildings for both community and cultural purposes on a basis of district halls approximately one to a neighbourhood or pair of adjacent neighbourhoods.

THIS IS PAGE 95 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. J. Jacobs
 DIRECTOR OF LOCAL GOVERNMENT

8.5.3 Water and Sewerage Works Programmes

The Council proposed to upgrade the Northern Centre Water Supply, and by 1986 to complete the sewerage of Andergrove, and planning of sewerage for Bucasia, and the Seaforth Water Supply Scheme.

8.5.4 Roads and Streets

The current major five year programme of arterial street improvements to be completed by 1986 is expected to resolve major arterial streetwork problems for the neighbourhoods.

8.5.5 Stormwater Drainage

Significant problems exist at Black's Beach and Eimeo and present planning calls for a major commencement upon drainage works. Not all problems will be solved by 1986 but considerable relief could be achieved in this five year period. Existing problems at Andergrove are likely to be completely resolved by 1986, with the intended five year works programme. Significant stormwater drainage problems would also need to be overcome in the post 1986 period.

8.5.6 Parks, Playgrounds, Sporting Facilities

Considerable deficiencies will have to be overcome by the Council with respect to parks, playgrounds and sporting facilities. Generally rubbish tips should be so arranged as to provide some part of the lands for playground areas of the future. Council is developing a firm set of working

THIS IS PAGE 96 OF THE STRATEGIC PLAN MADE BY Shine COUNCIL, AND APPROVED BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

proposals for parks, gardens, playgrounds and rationalised garbage arrangements for each of the eight neighbourhoods. Nevertheless, it is clear that it is in the area of recreation grounds some of the biggest deficiencies will remain for perhaps many years.

8.5.7 Shopping Facilities

The level of shopping facilities at all of the eight neighbourhoods with the exception of Walkerston is generally uneven and insufficient.

Planning is based on a subregional centre at Mt Pleasant and strong neighbourhood shopping centres at North Mackay, Beaconsfield, Andergrove, Slade Point and Bucasia. Some of these shopping centres will have service stations. The Strategic Plan also recognises the importance of shopping facilities in Mackay City.

Hotels are envisaged for the following neighbourhoods within the five year life of the plan:

North Mackay	a new tavern
Andergrove - Beaconsfield	a new tavern
Slade Point	a new tavern

Facilities are adequate at Walkerston and Ooralea - Paget is quite near to hotels in Mackay City.

8.5.8 Educational Facilities

Council planning provides for new school sites as follows:

North Mackay	Nil State schools, but one new major church school
Andergrove - Beaconsfield	The Education Dept is extending the existing Andergrove primary school and providing a second primary school towards 1986

THIS IS PAGE 97 OF THE STRATEGIC PLAN MADE BY *Lionel*
Shine COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
A. J. Jacobs
 DIRECTOR OF LOCAL GOVERNMENT

Glenella	Enlarging the existing primary school or providing a new one
Bucasia - Shoal Point	Providing a site on Council land for a new primary school
Slade Point	Arranging for the LAC to provide a secondary school site for the Dept. of Education
Ooralea - Paget	Education Dept. has acquired site for a primary school at Boundary Road.

This plan recognises the need for replanning the the Andergrove and Beaconsfield neighbourhood to take cognisance of the recent major property acquisition by the QHC.

8.5.9 Medical Facilities

Further professional rooms for medical, paramedical and dental facilities were provided for in the North Mackay neighbourhood within the CBD and near the Pioneer Valley Hospital.

8.5.10 Assigned Canelands

Table 43 provides a dissection of assigned caneland to be lost to future urbanisation to the year 2000 on a mill area basis.

THIS IS PAGE *98* OF THE STRATEGIC PLAN MADE BY *Pioneer*
Shine COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON *24.11.83*
H. J. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

TABLE 43
 ASSIGNED CANELAND LOST TO URBANIZATION
 TO YEAR 2001 - MILL AREA BASIS

MILL	ARABLE LANDS TO BE LOST TO URBANIZATION (ha.)
Farleigh	268
Racecourse	217
Pleystowe	30
TOTAL	515

Table 44 presents information summarising the productivity status and area of arable lands envisaged to be lost to urbanisation on a mill area basis.

TABLE 44
 PRODUCTIVITY & AREA OF LOST ARABLE LANDS
 MILL AREA BASIS

MILL	PRODUCTIVITY RANKING	ARABLE AREA TO BE LOST (ha.)
Farleigh	Very High	0
	High	77
	Medium	10
	Low	181
	Sub-Total	268
Racecourse	Very High	24
	High	185
	Medium	7
	Low	1
Pleystowe	Very High	0
	High	23
	Medium	7
	Low	0
	Sub-Total	30
	TOTAL	515

THIS IS PAGE 99 OF THE STRATEGIC PLAN MADE BY
 SHIRE COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
 H. J. J. J.
 DIRECTOR OF LOCAL GOVERNMENT

The Racecourse Mill is expected to lose more land in the short term than either of the other two mills. The incursion to Parish of Howard seems inescapable in the wake of the Government decision to enlarge the boundaries of the City of Mackay, and the acquisition of land for industrial and educational purposes.

The loss of 515 ha of cane land anticipated to occur over the next 20 years is not expected to seriously affect the sugar industry as perhaps no more than 12 to 14 farms will be lost over that period.

8.5.11 Summary

In summary, the Pioneer Shire Council's Five Year Strategic Plan requires further resolution by the Pioneer Shire Council to overcome the considerable deficiencies that exist with relation to adequate parks, playgrounds, sporting facilities and rubbish tips with respect to each of the eight residential neighbourhoods listed as growth centres.

The Council has considered the question of Strategic Plan procedures, and while the Council has not adopted a By-law concerning rights of objection, the Council has indicated it will take all action required of it under recent amendments to the Local Government Act.

The Pioneer Shire Council's Strategic Plan is inflexible with regard to corridor arrangements. This is thought reasonable since the corridor has already been the subject of a very detailed and comprehensive engineering, economic

THIS IS PAGE 100 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83

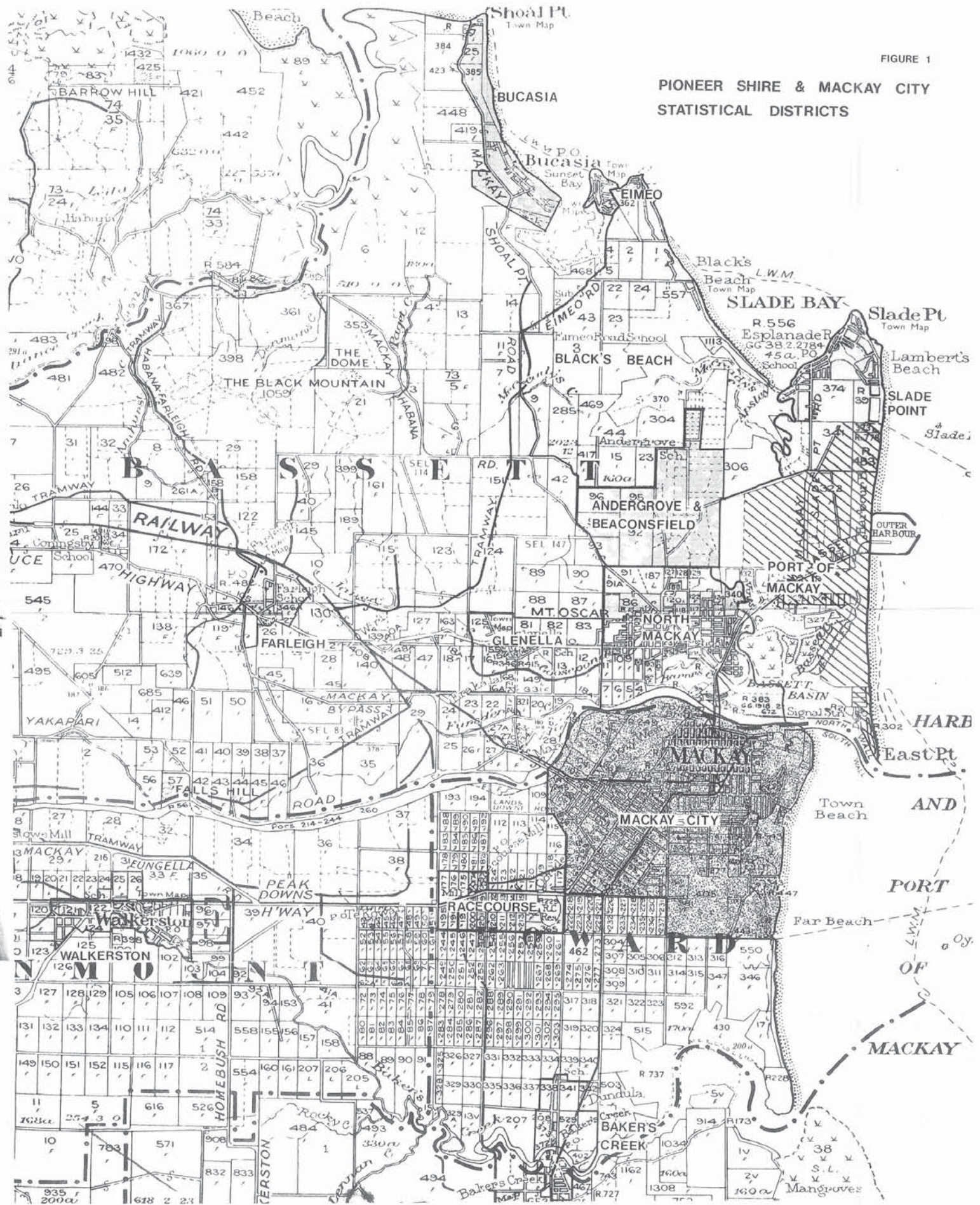
H. J. [Signature]
 DIRECTOR OF LOCAL GOVERNMENT

and environmental investigation, and detailed working surveys and designs are now being based upon this study. Otherwise, the arrangements delineated on the Draft Strategic Plan depicting the areas of growth and the eight residential neighbourhoods are quite flexible and generally are well in excess of the projected areas of incremental area requirements to the year 1986. Without such flexibility the Pioneer Shire Council could experience difficulty in using the Strategic Plan to control development within the subject area because of the largely fragmented nature of existing subdivision. At the same time little or no reason appears to exist which would justify a transgression outside the intended boundaries of urban expansion.

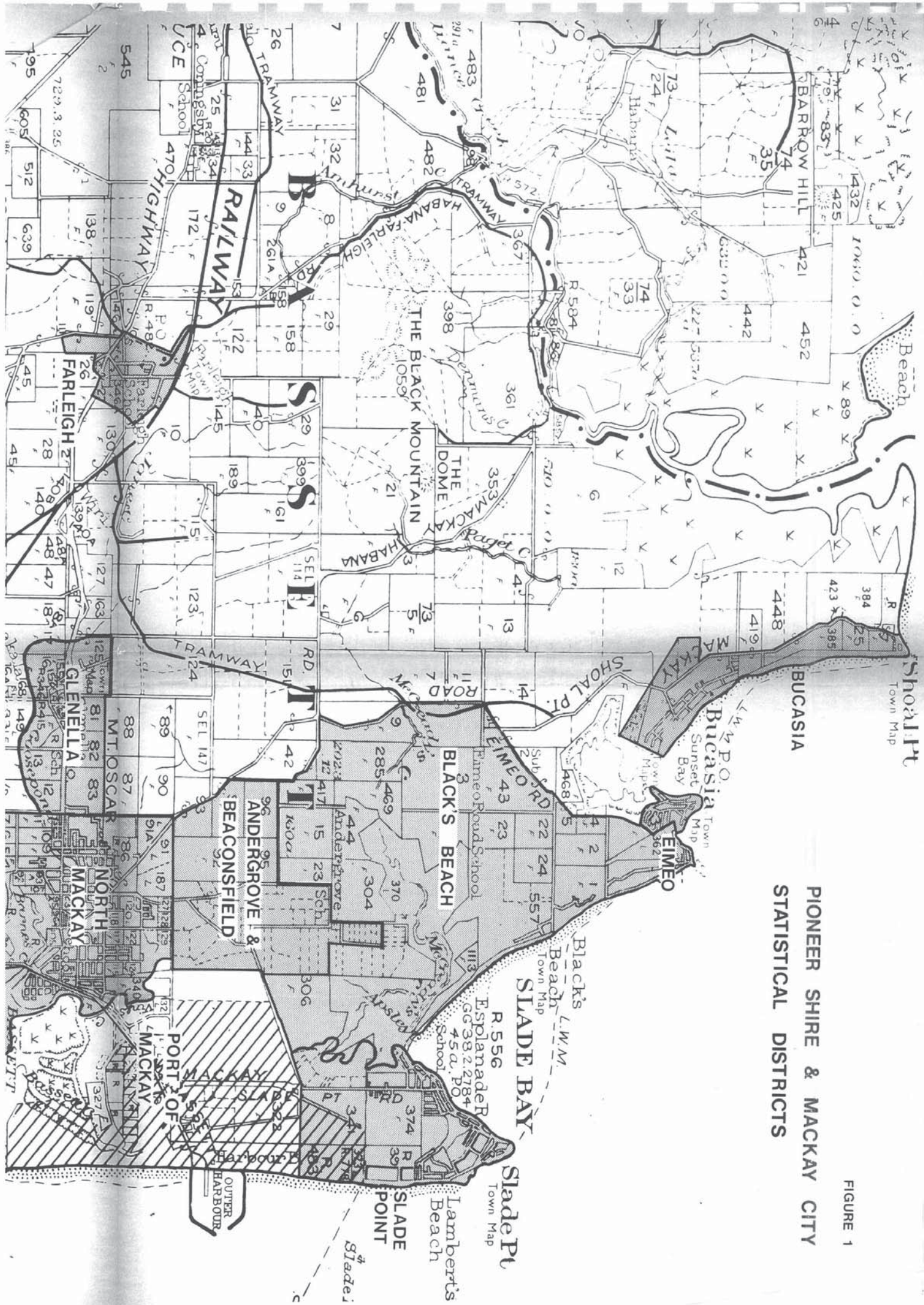
THIS IS PAGE 101 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL, AND APPROVED
BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
DIRECTOR OF LOCAL GOVERNMENT

FIGURE 1

PIONEER SHIRE & MACKAY CITY
STATISTICAL DISTRICTS



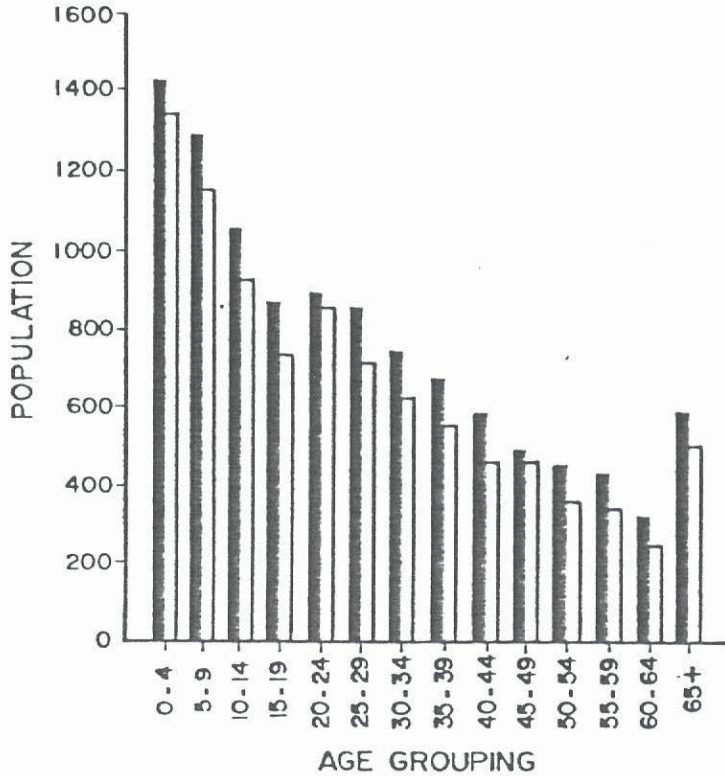
THIS IS PAGE 102 OF THE PIONEER SHIRE AND MACKAY CITY COUNCIL AND APPROVED BY THE GOVERNOR IN COUNCIL OF 24.11.63 H. J. Jacob
SUPPORT OF LOCAL GOVERNMENT



PIONEER SHIRE & MACKAY CITY
STATISTICAL DISTRICTS

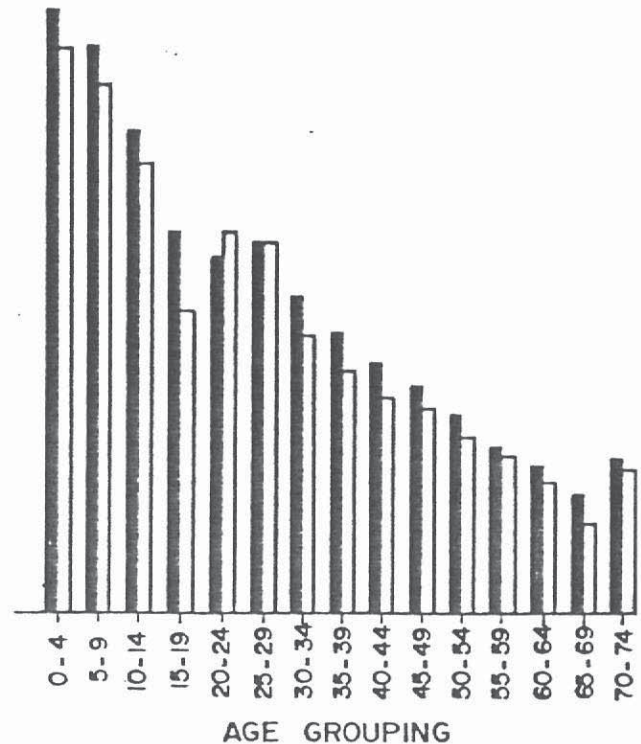
FIGURE 1

PIONEER SHIRE
POPULATION BY AGE & SEX
1966, 1971 & 1976 CENSUS



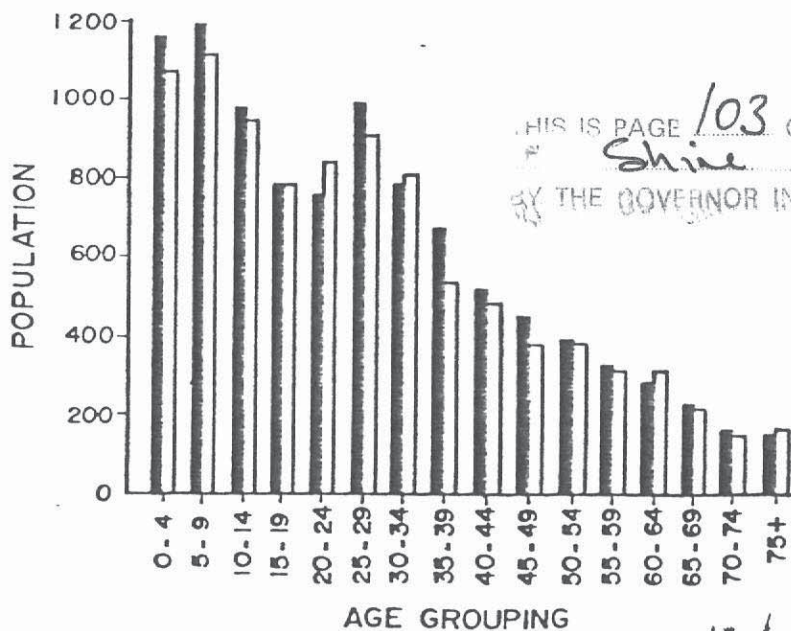
MALES 10,653
FEMALES 9,247
TOTAL POPULATION 19,900

1966 CENSUS

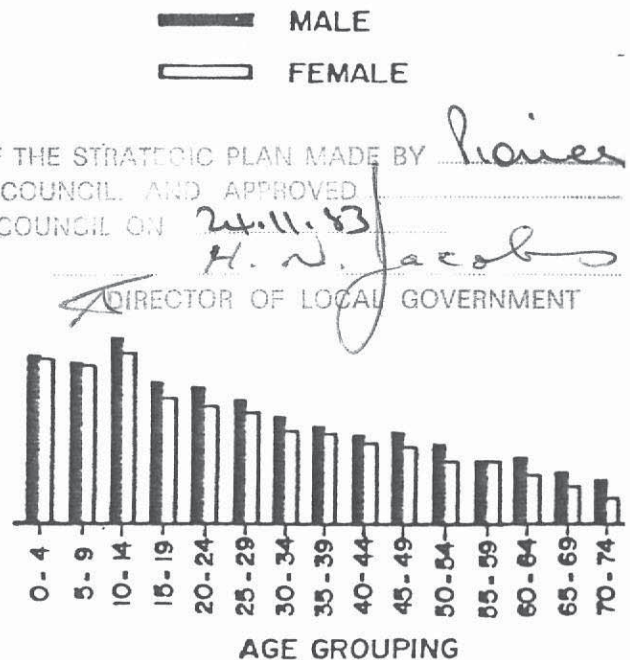


MALES 11,779
FEMALES 10,782
TOTAL POPULATION 22,561

1971 CENSUS



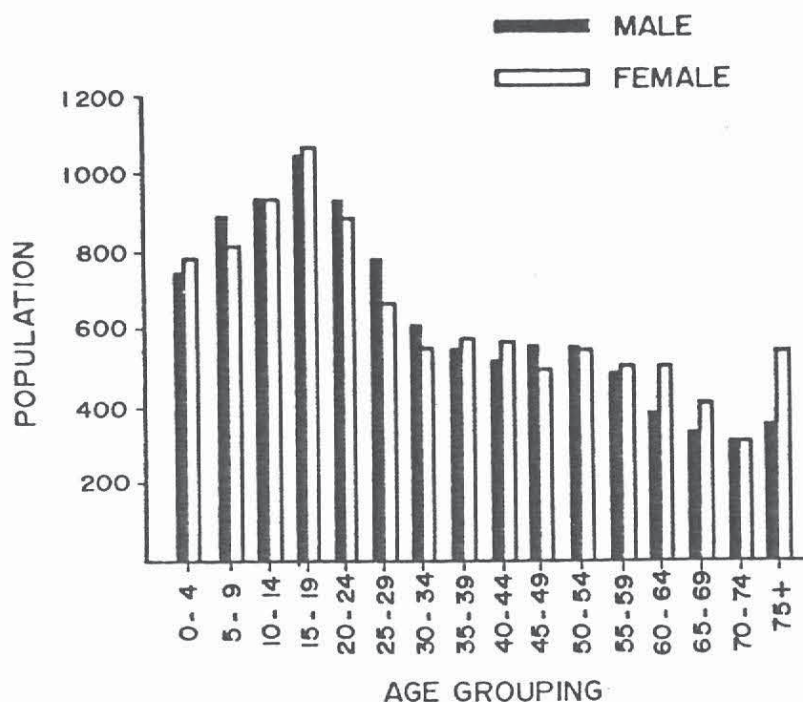
MALES 9,852
FEMALES 9,424
TOTAL POPULATION 19,276



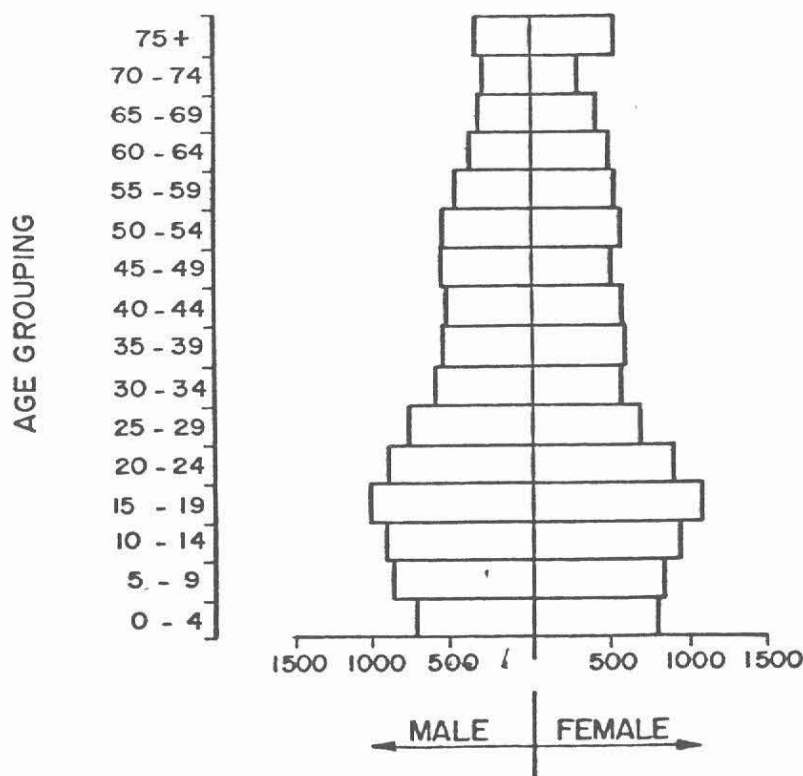
MALES 4,062
FEMALES 3,600
TOTAL POPULATION 7,662

THIS IS PAGE 103 OF THE STRATEGIC PLAN MADE BY Pioneer Shire COUNCIL AND APPROVED BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
DIRECTOR OF LOCAL GOVERNMENT

MACKAY CITY AGE/SEX RELATIONSHIPS 1976 CENSUS



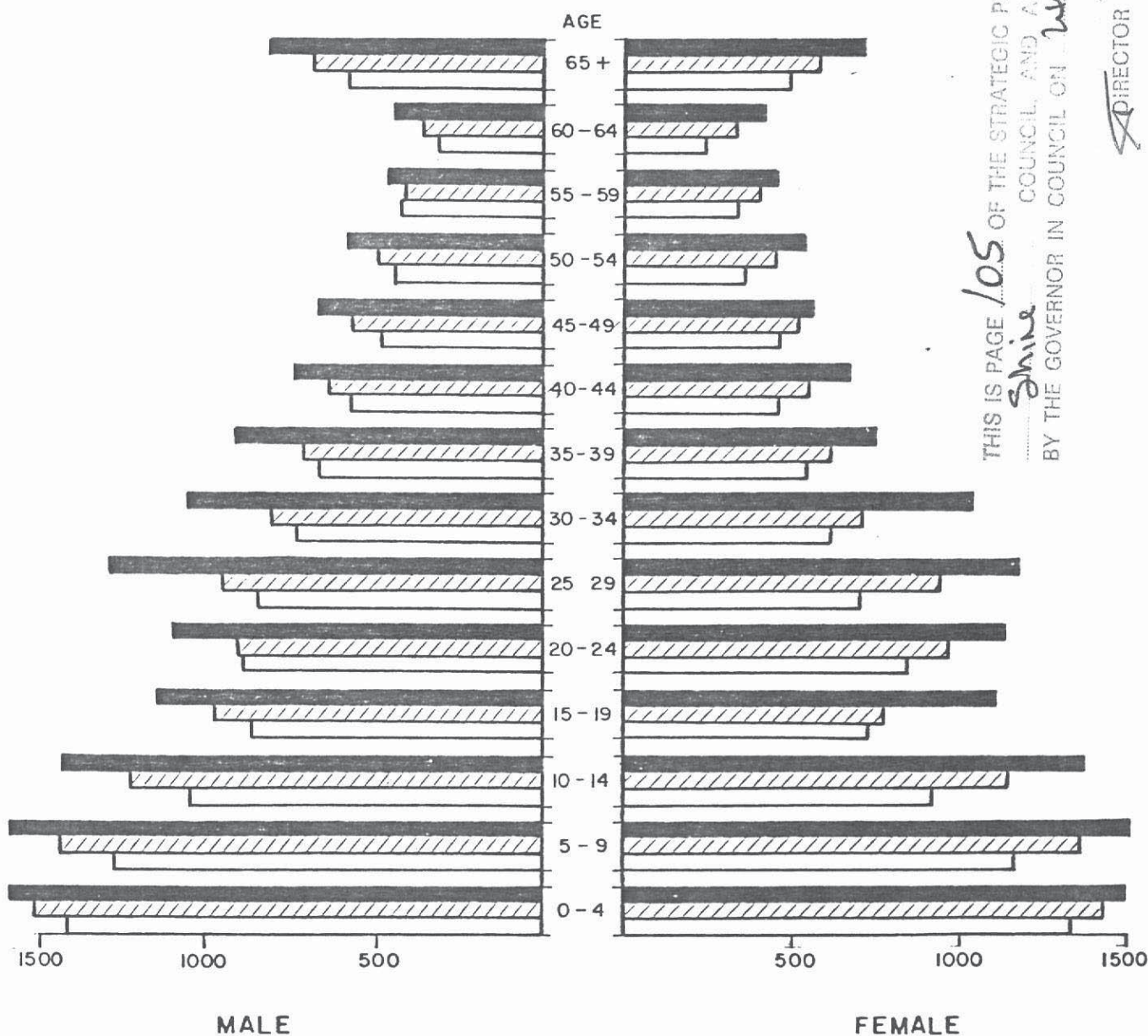
AGE GROUPING
 MALES 10,012
 FEMALES 10,212
 TOTAL POPULATION 20,224



THIS IS PAGE 104 OF THE STRATEGIC PLAN MADE BY
 [Signature] COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
 [Signature] DIRECTOR OF LOCAL GOVERNMENT

PIONEER SHIRE POPULATION COMPARISONS 1966, 1971, 1976 CENSUSES

1966 Census
 1971 Census
 1976 Census

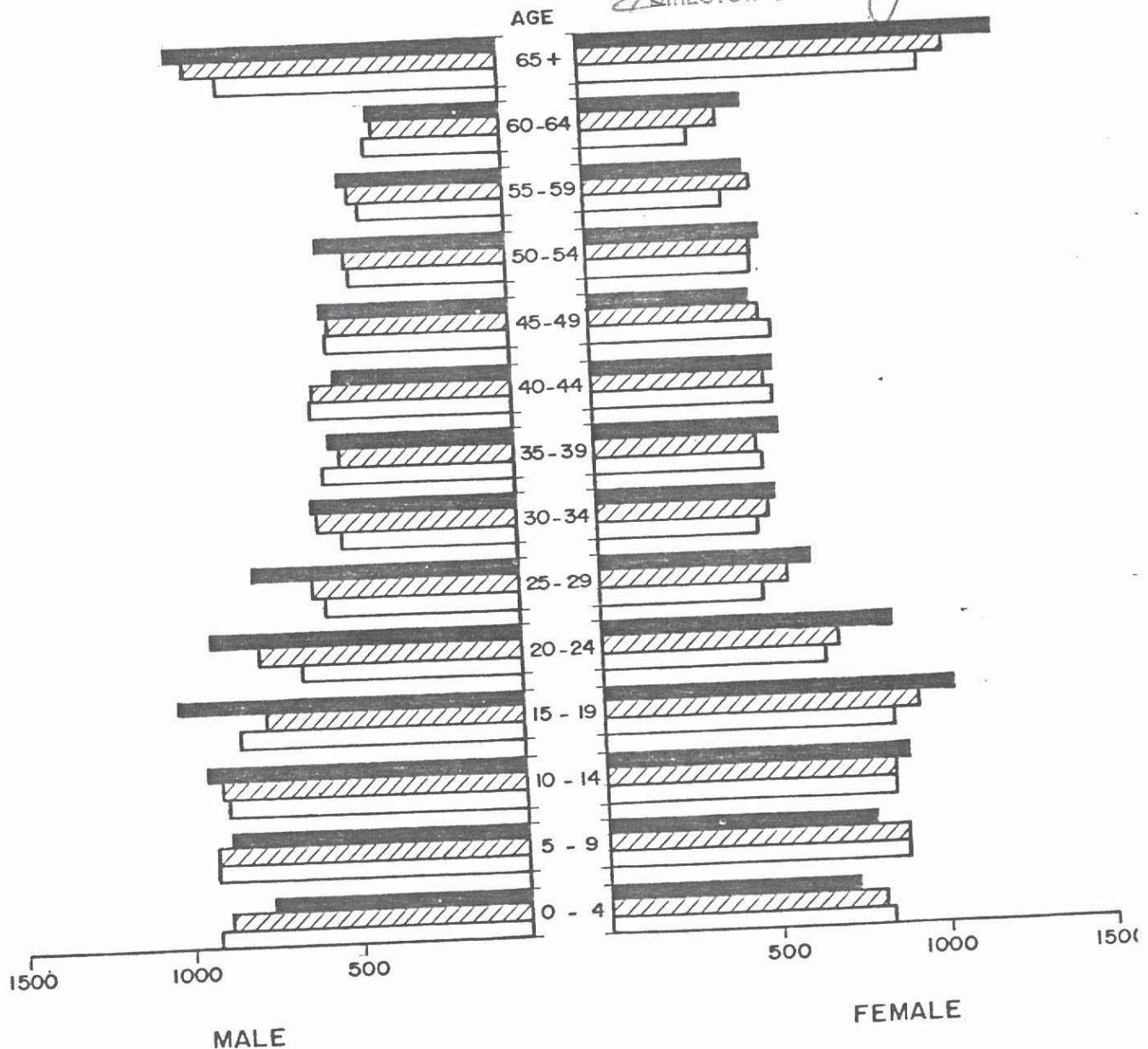


THIS IS PAGE 105 OF THE STRATEGIC PLAN MADE BY Pioneer Shire COUNCIL, AND APPROVED BY THE GOVERNOR IN COUNCIL ON 22.11.83
 H. J. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

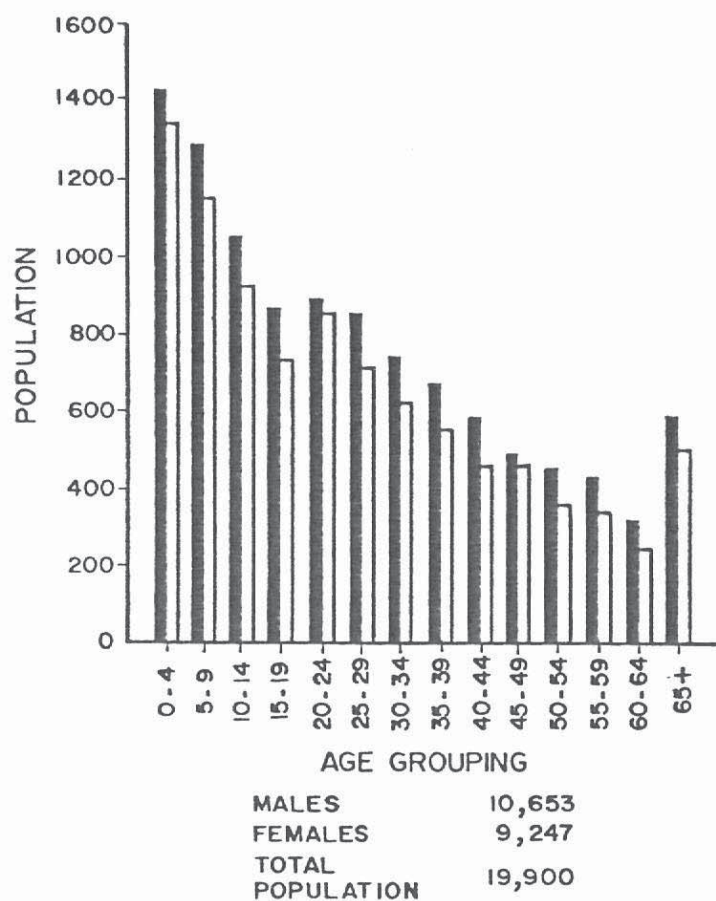
MACKAY CITY POPULATION COMPARISONS 1966, 1971, 1976 CENSUSES

□ 1966 Census
 ▨ 1971 Census
 ■ 1976 Census

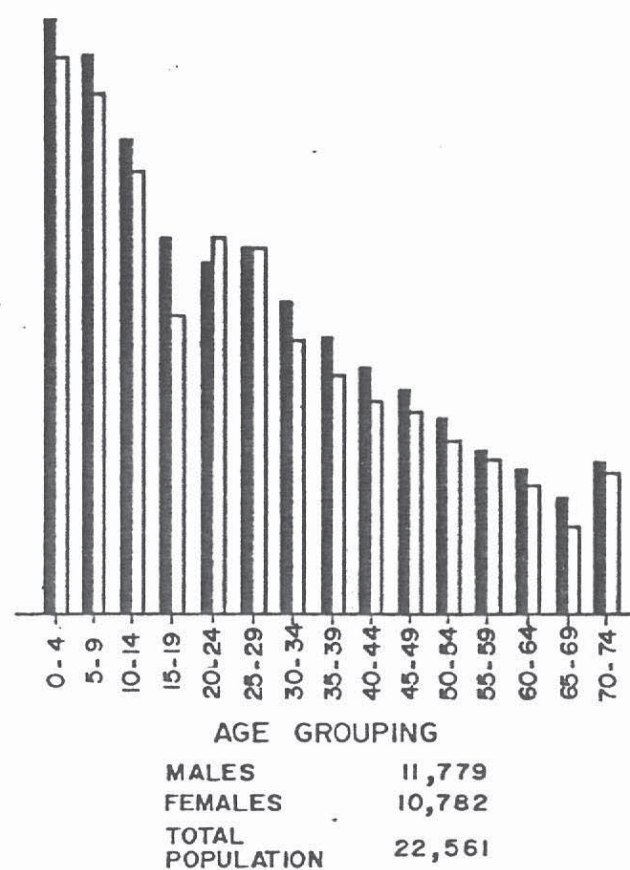
THIS IS PAGE 106 OF THE STRATEGIC PLAN MADE BY Shine
 COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. J. Jacob
 DIRECTOR OF LOCAL GOVERNMENT



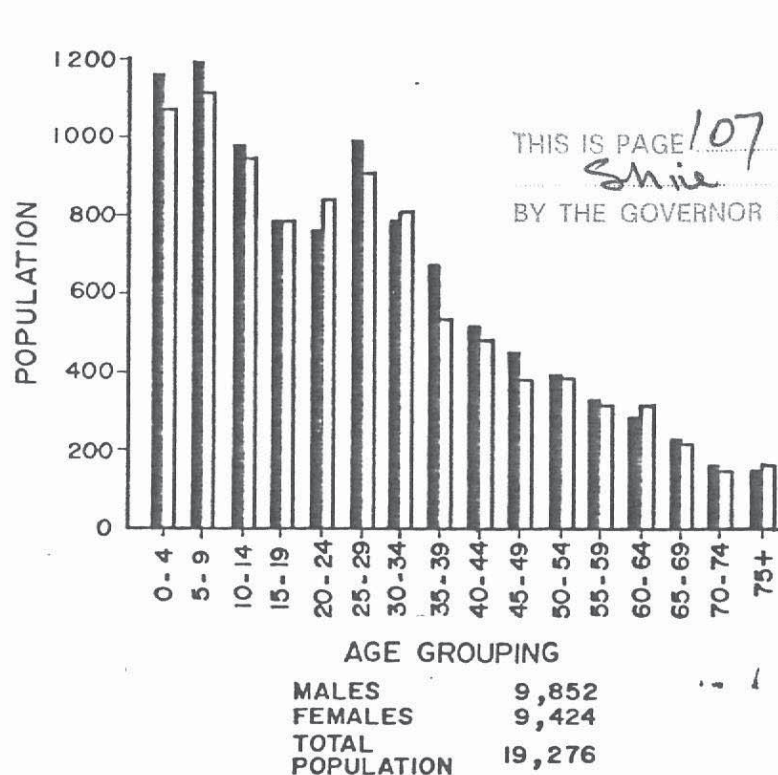
PIONEER SHIRE POPULATION BY AGE & SEX 1966, 1971 & 1976 CENSUS



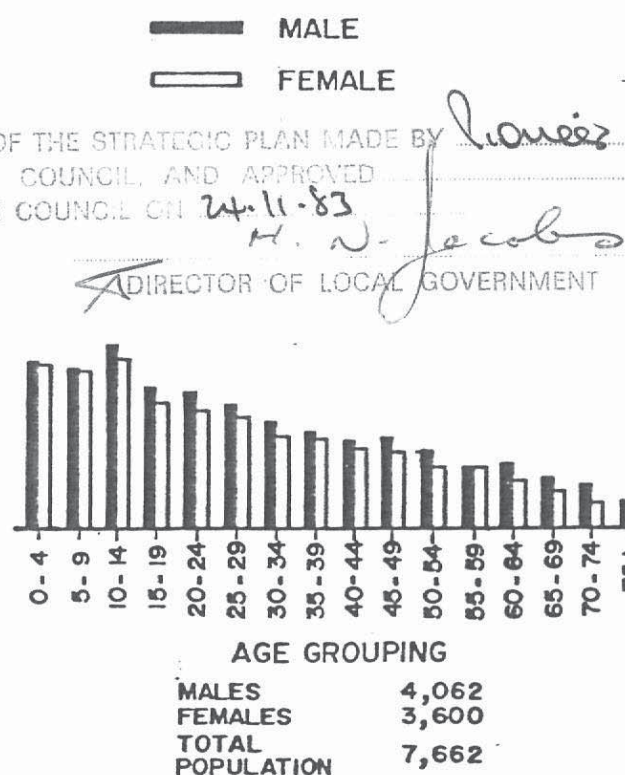
1966 CENSUS



1971 CENSUS



URBAN-1976 CENSUS



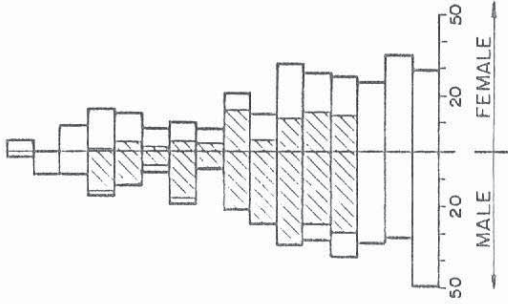
RURAL-1976 CENSUS

THIS IS PAGE 107 OF THE STRATEGIC PLAN MADE BY Pioneer Shire COUNCIL, AND APPROVED BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacobs
DIRECTOR OF LOCAL GOVERNMENT

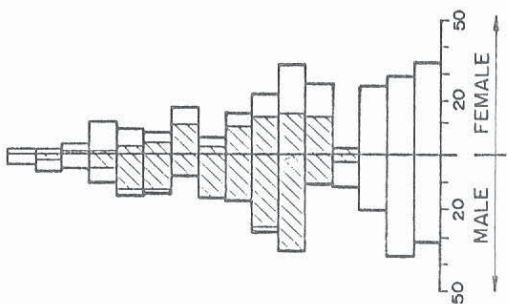
THIS IS PAGE 108 OF THE STRATTON PLAN MADE BY Pioneer
 SHIRE AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24-11-83
 H. N. J. J. J.
 DIRECTOR OF LOCAL GOVERNMENT

PIONEER SHIRE URBAN
 POPULATION PYRAMIDS AT
 COLLECTOR'S DISTRICT LEVEL
 SHOWING

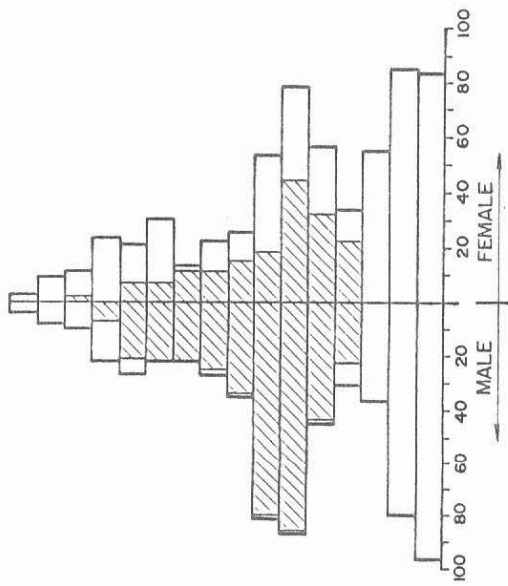
BAKERS CREEK
 MALE 342
 FEMALE 278
 POPULATION 620



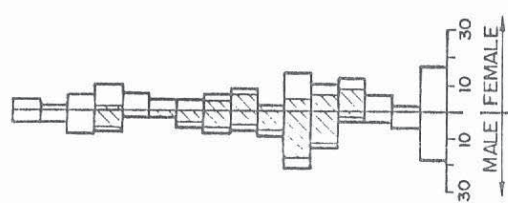
BLACKS BEACH
 MALE 270
 FEMALE 246
 POPULATION 516



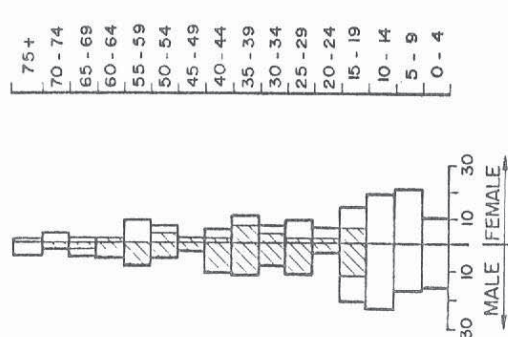
BUCASIA
 MALE 635
 FEMALE 598
 POPULATION 1233



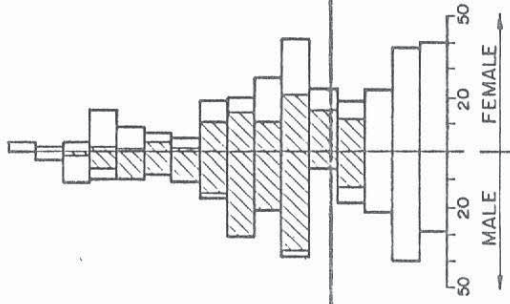
EIMEO
 MALE 125
 FEMALE 112
 POPULATION 237



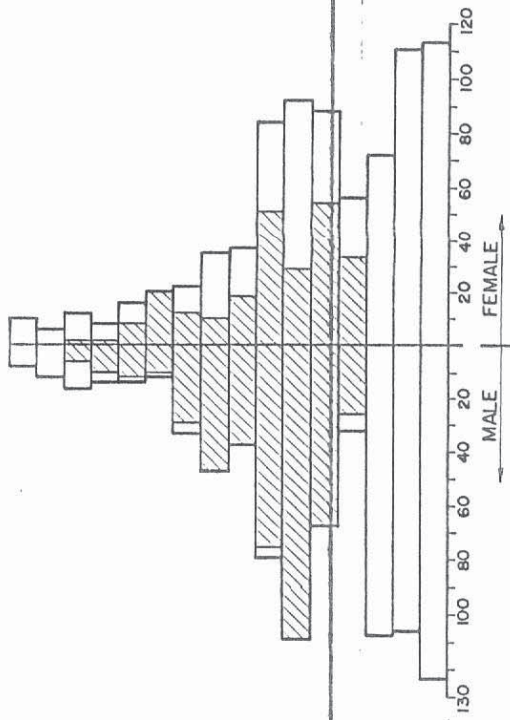
FARLEIGH
 MALE 153
 FEMALE 131
 POPULATION 284



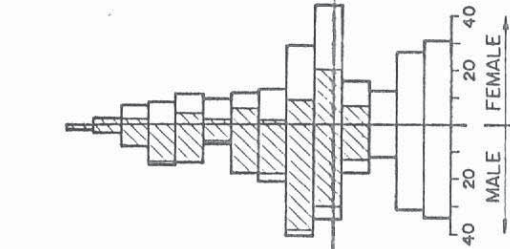
GLENELLA
 MALE 276
 FEMALE 294
 POPULATION 570



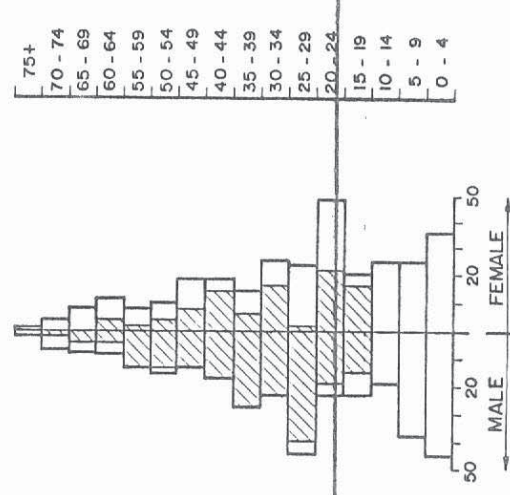
OUTER NORTH MACKAY
 (ANDERGROVE & BACONSFIELD)
 MALE 817
 FEMALE 782
 POPULATION 1599



PORT OF MACKAY
 MALE 259
 FEMALE 220
 POPULATION 479

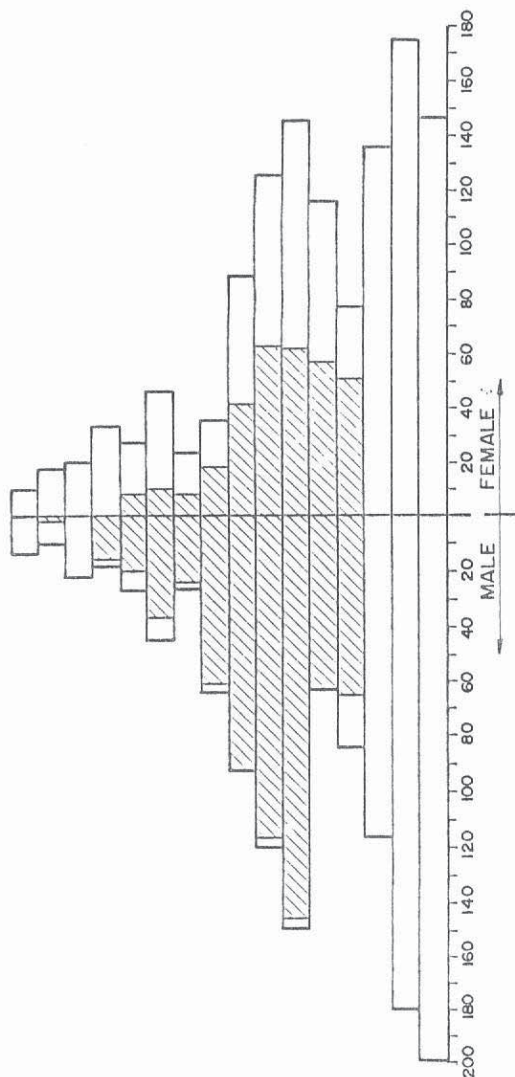


RACE COURSE
 MALE 324
 FEMALE 298
 POPULATION 622

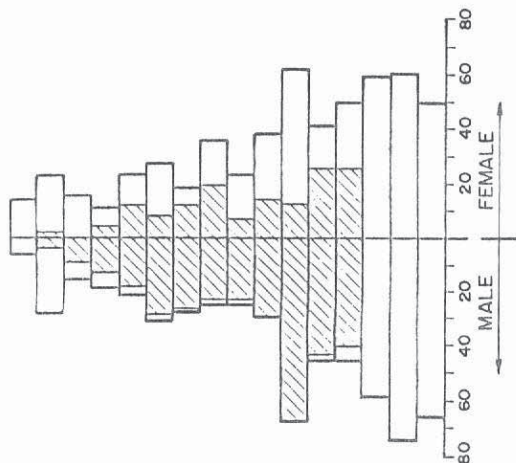


75+
70-74
65-69
60-64
55-59
50-54
45-49
40-44
35-39
30-34
25-29
20-24
15-19
10-14
5-9
0-4

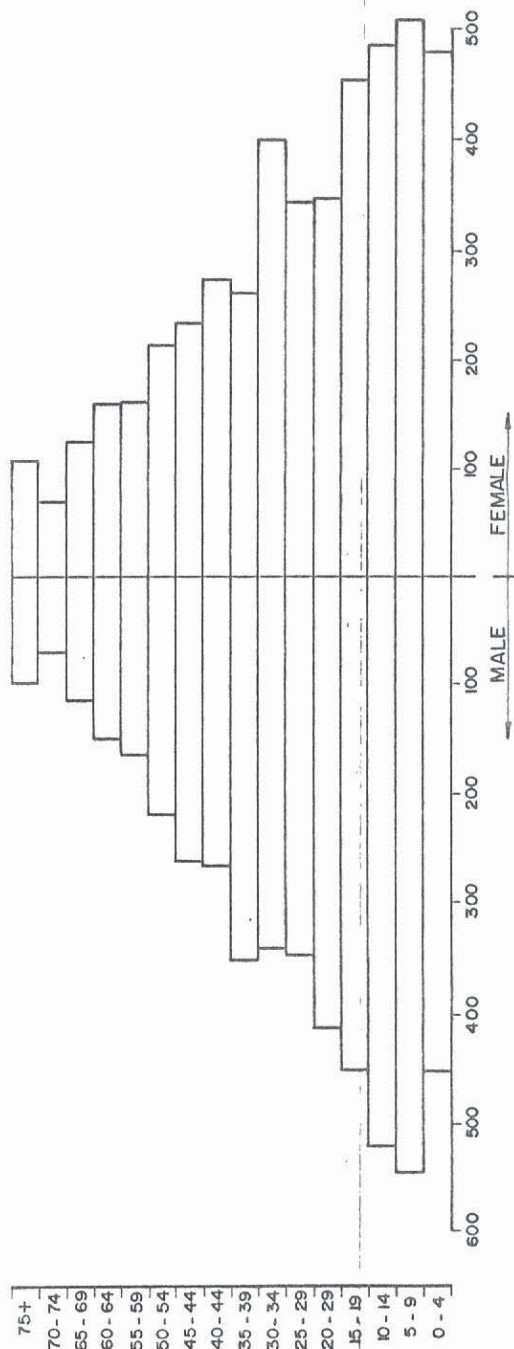
MALE	1229
FEMALE	1217
POPULATION	2246



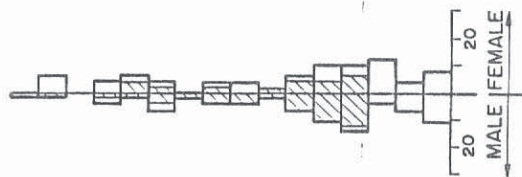
MALE	589
FEMALE	546
POPULATION	1135



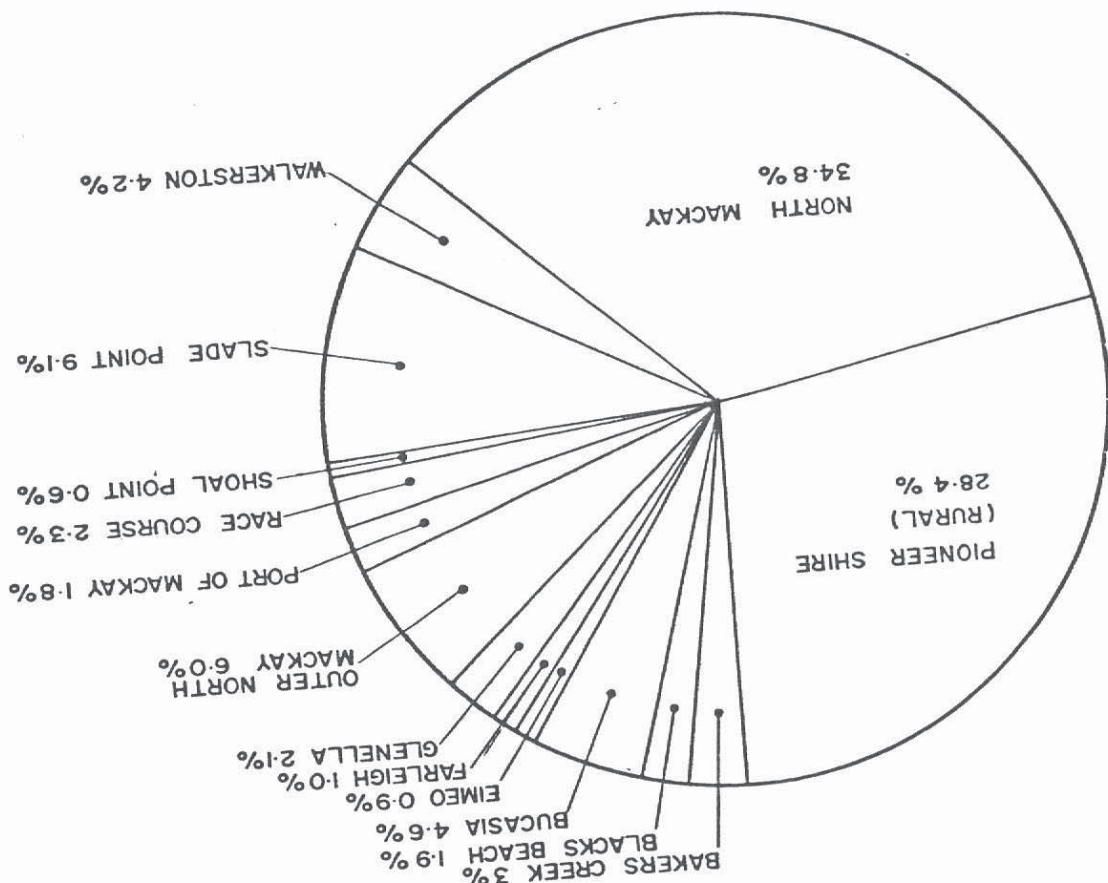
MALE	4 750
FEMALE	4 624
POPULATION	9 374



MALE	84
FEMALE	72
POPULATION	162

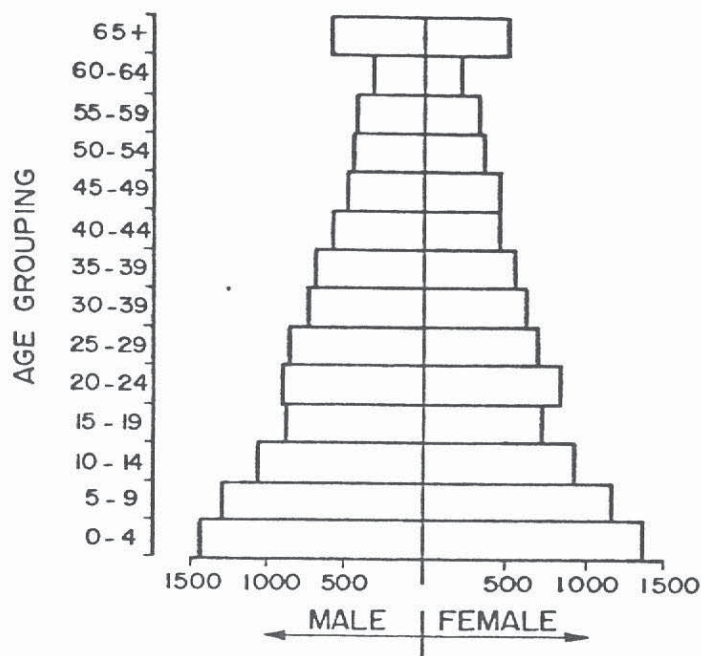


PIONEER SHIRE IN PROPORTION OF POPULATION IN COLLECTOR'S DISTRICT 1976 CENSUS

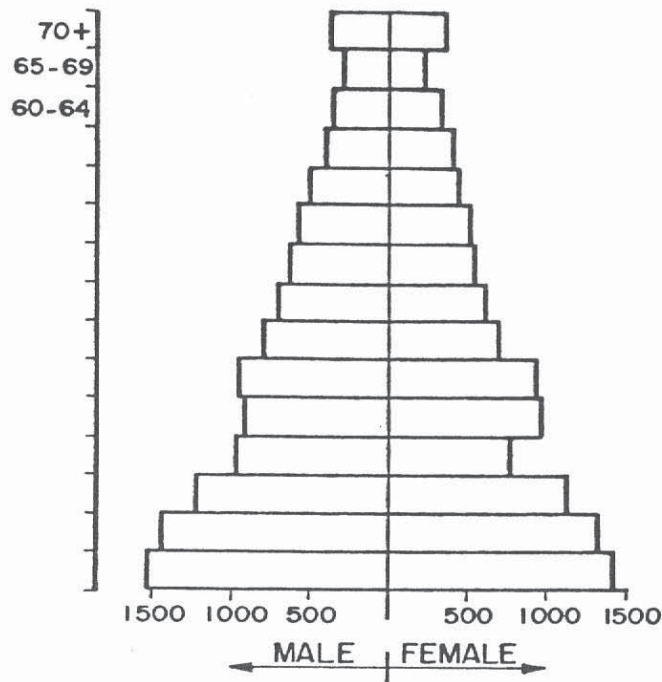


THIS IS PAGE 110 OF THE STATISTICAL PLAN MADE BY
 Shire
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
 H. J. J. J. J.
 DIRECTOR OF LOCAL GOVERNMENT

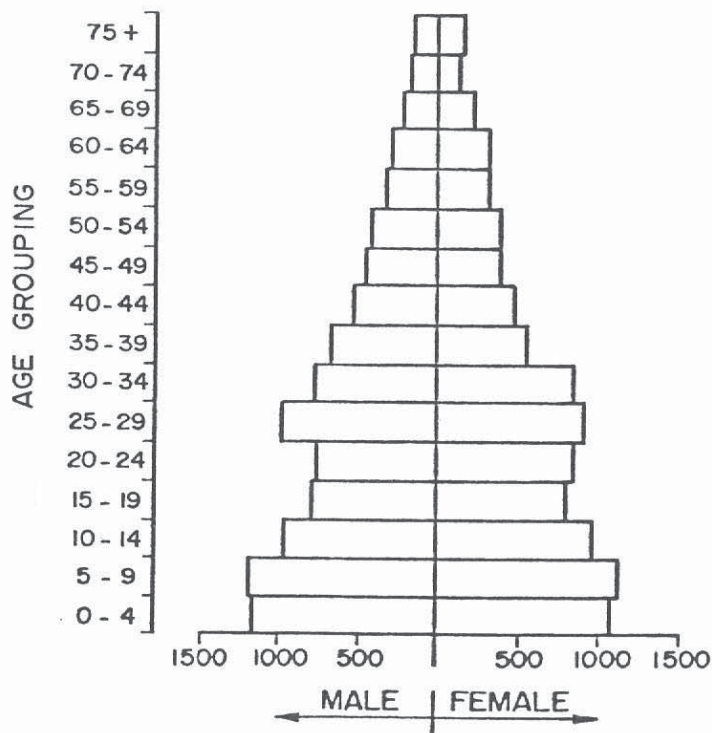
PIONEER SHIRE AGE/SEX RELATIONSHIPS 1976 CENSUS



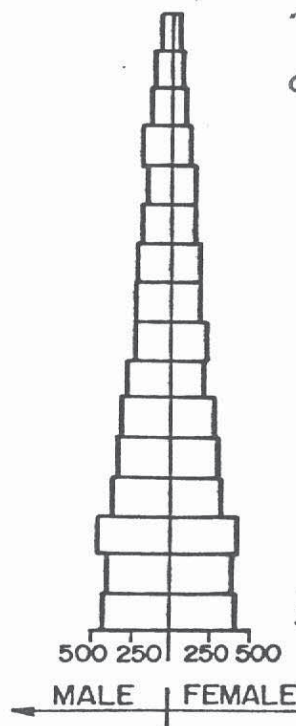
1966 CENSUS



1971 CENSUS



URBAN-1976 CENSUS

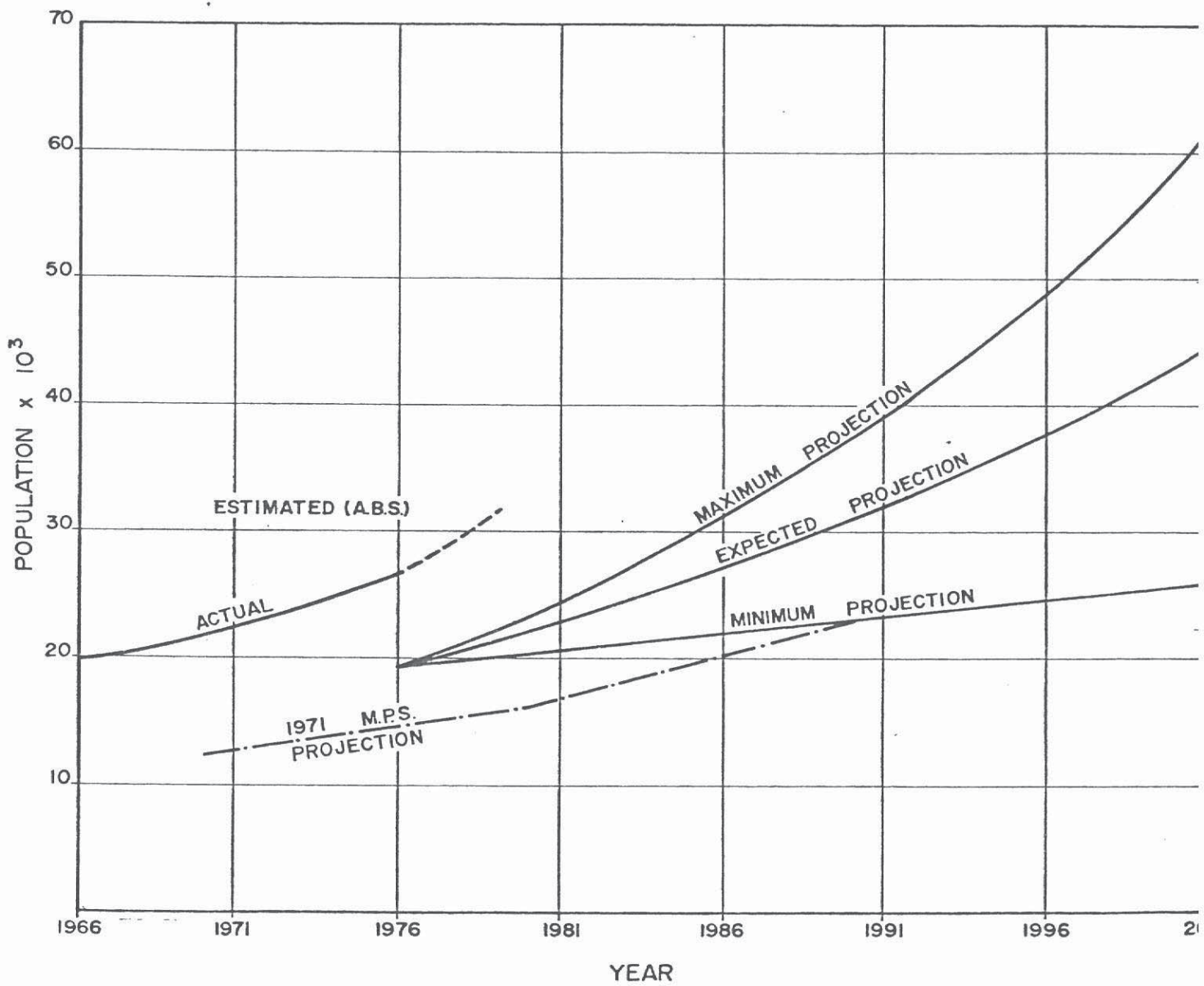


RURAL-1976 CENSUS

THIS IS PAGE 111 OF THE STRATEGIC PLAN MADE BY PIONEER SHIRE COUNCIL AND APPROVED BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
DIRECTOR OF LOCAL GOVERNMENT

PIONEER SHIRE (URBAN) POPULATION PROJECTIONS

THIS IS PAGE 112 OF THE STRATEGIC PLAN MADE BY Pioneer
Shire COUNCIL AND APPROVED
BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacobs
DIRECTOR OF LOCAL GOVERNMENT



MAXIMUM PROJECTION	1.0 % MIGRATION
EXPECTED PROJECTION	0.6 % MIGRATION
MINIMUM PROJECTION	0.0 % MIGRATION



FIGURE 11



**STRATEGY PLAN FOR
PIONEER SHIRE COUNCIL
URBAN NEIGHBOURHOODS**

THIS IS PAGE 113 OF THE STRATEGIC PLAN MADE BY Louise
Shire COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83
Director of Local Government

FIGURE 12



**STRATEGY PLAN FOR
PIONEER SHIRE COUNCIL
MULTI-MODAL CORRIDOR**



THIS IS PAGE 114 OF THE STRATEGIC
SARVÉ COUNCIL AND
BY THE GOVERNOR IN COUNCIL ON

ADIRREC



STRATEGY PLAN FOR
PIONEER SHIRE COUNTY
MULTI-MODAL CORRIDOR

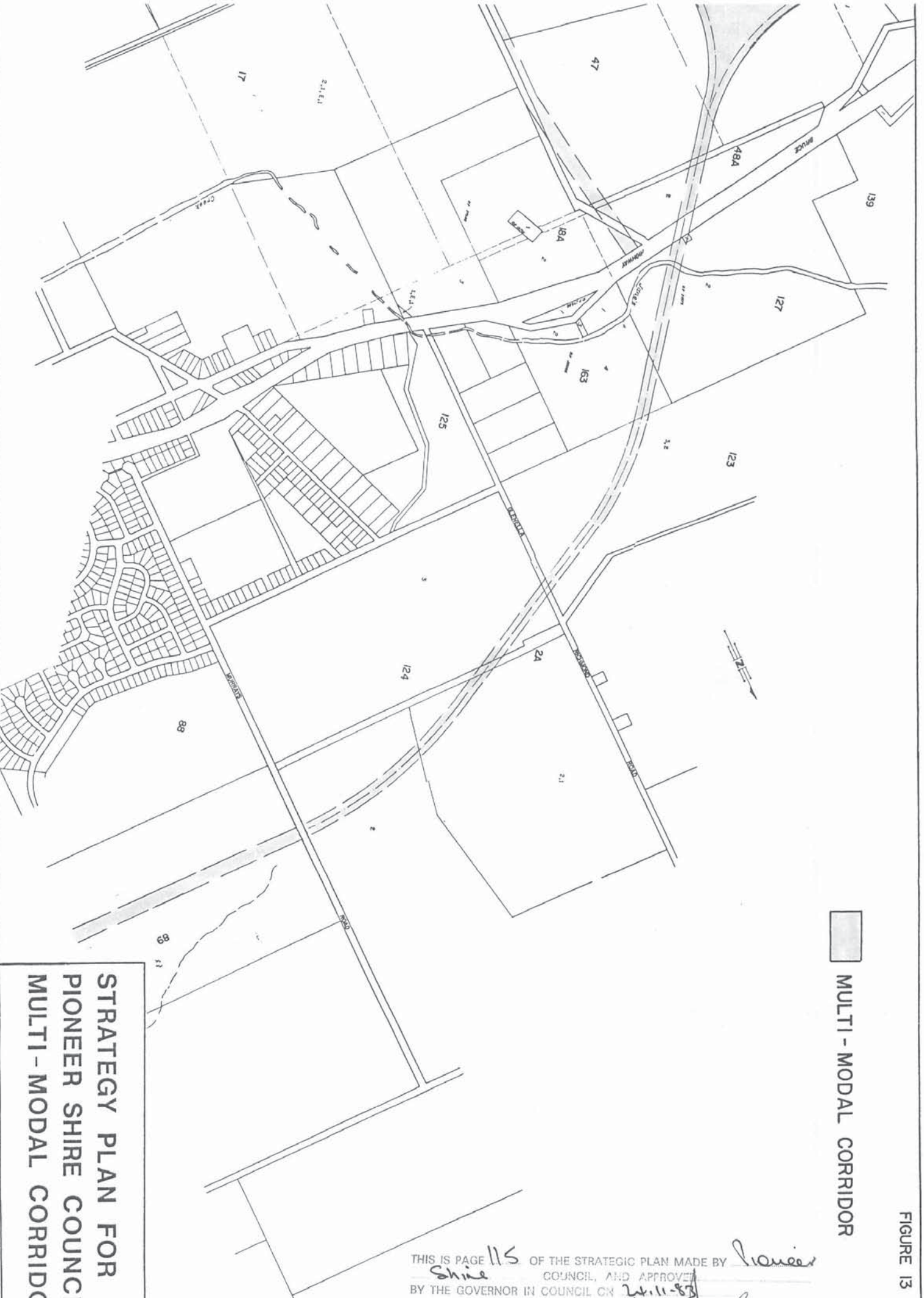
MULTI-MODAL CORRIDOR

PLAN MADE BY *[Signature]*
APPROVED *[Signature]*
OF LOCAL GOVERNMENT



FIGURE 13

MULTI - MODAL CORRIDOR



STRATEGY PLAN FOR
PIONEER SHIRE COUNCIL
MULTI - MODAL CORRIDOR

THIS IS PAGE 115 OF THE STRATEGIC PLAN MADE BY
Shine COUNCIL, AND APPROVED BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. J. Jacoby
DIRECTOR OF LOCAL GOVERNMENT



MULTI - MODAL

FIGURE 14



 MULTI-MODAL CORRIDOR

STRATEGY PLAN FOR
PIONEER SHIRE COUNCIL
MULTI MODAL CORRIDOR

THIS IS PAGE 116 OF THE STRATEGIC PLAN MADE BY Pioneer Shire COUNCIL AND APPROVED
THE GOVERNOR IN COUNCIL ON 24.11.83
H. N. Jacob
DIRECTOR OF LOCAL GOVERNMENT





LEGEND

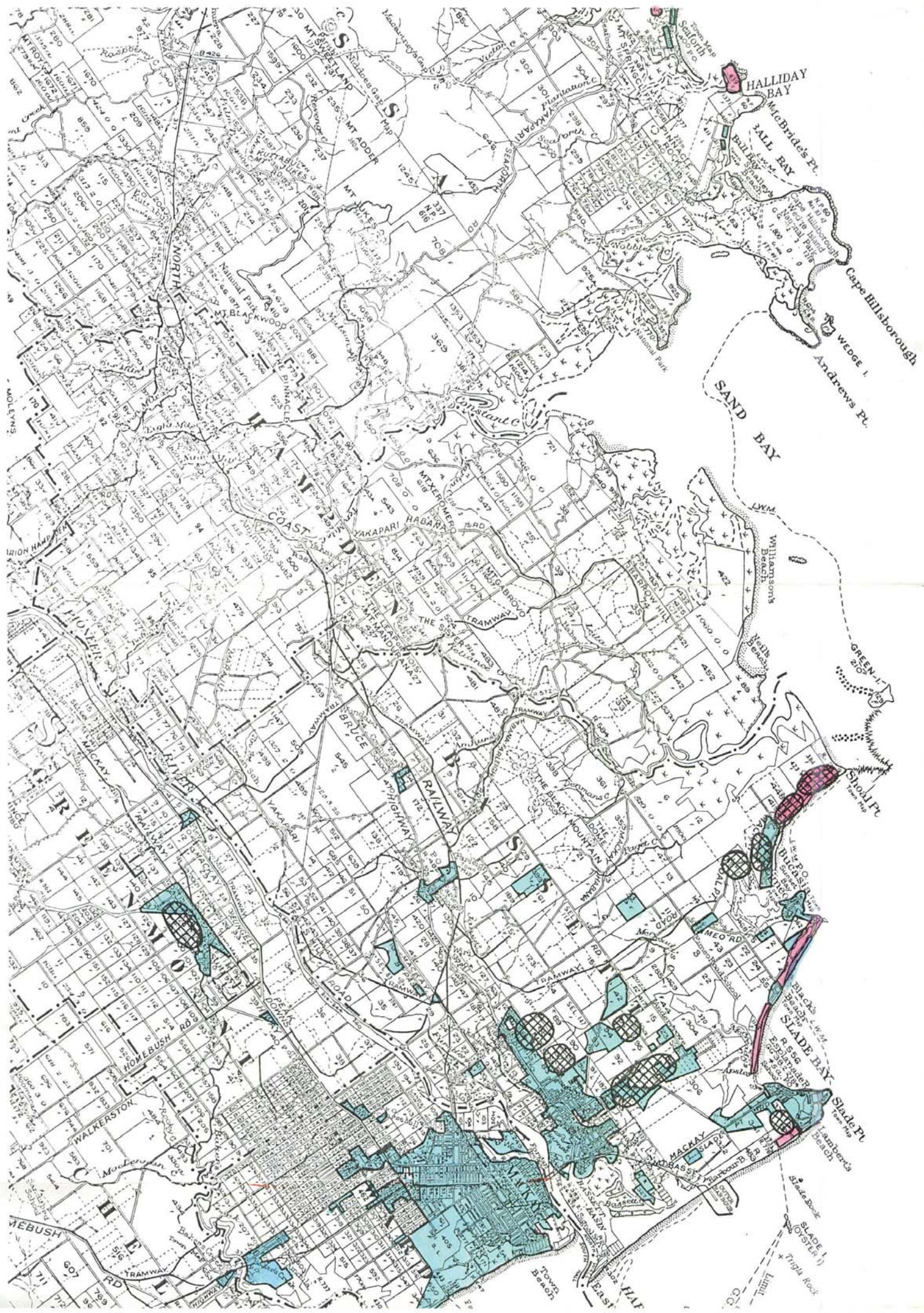
TOURIST USAGE

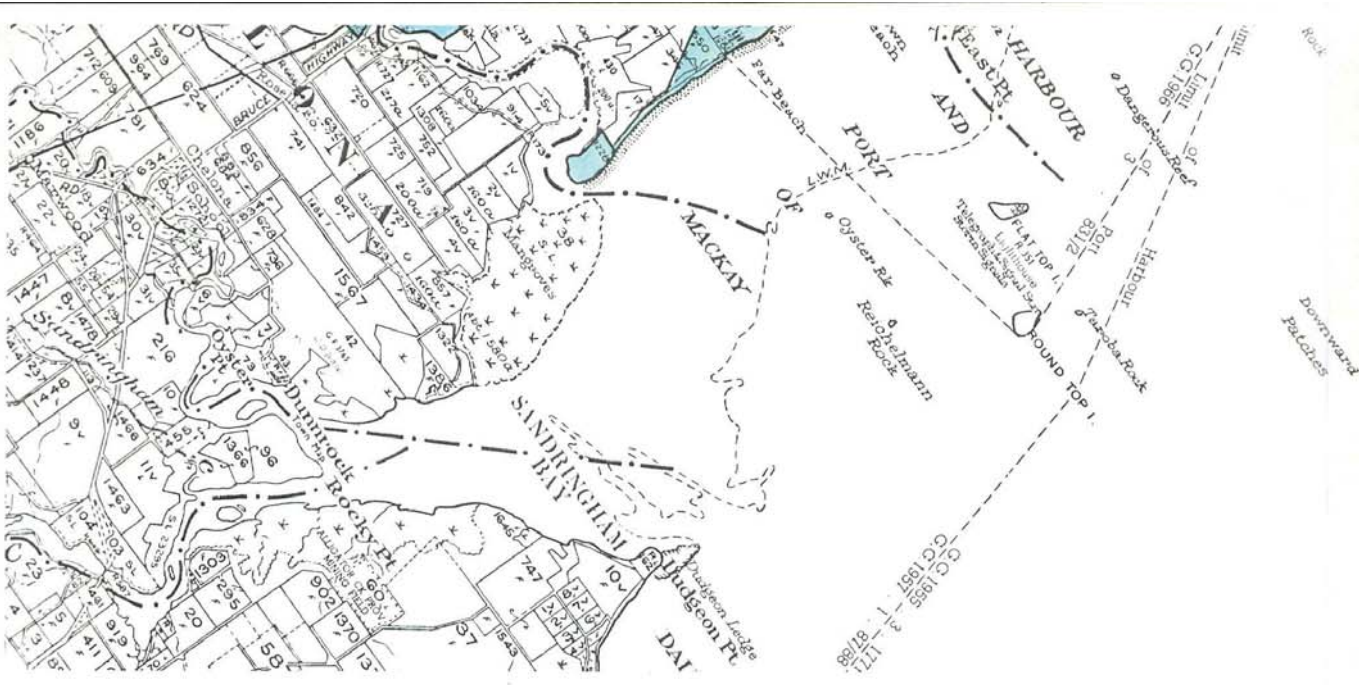
EXISTING URBAN DEVELOPMENT



STRATEGY PLAN FOR PIONEER SHIRE COUNCIL PATTERNS OF INCREMENTAL GROWTH 1980 - 2000

THIS IS PAGE 117 OF THE STRATEGIC PLAN MADE BY
Pioneer Shire COUNCIL, AND APPROVED
BY THE GOVERNOR IN COUNCIL ON 24.11.83
H. J. Jacobs
DIRECTOR OF LOCAL GOVERNMENT





- LEGEND**
- TOURIST USAGE
 - EXISTING URBAN DEVELOPMENT
 - FUTURE URBAN



**STRATEGY PLAN FOR
PIONEER SHIRE COUNCIL
PATTERNS OF INCREMENTAL GROWTH
1980 - 2000**

THIS IS PAGE 118 OF THE STRATEGIC PLAN MADE BY Pioneer Shire COUNCIL, AND APPROVED BY THE GOVERNOR IN COUNCIL ON 24.11.83
DIRECTOR OF LOCAL GOVERNMENT



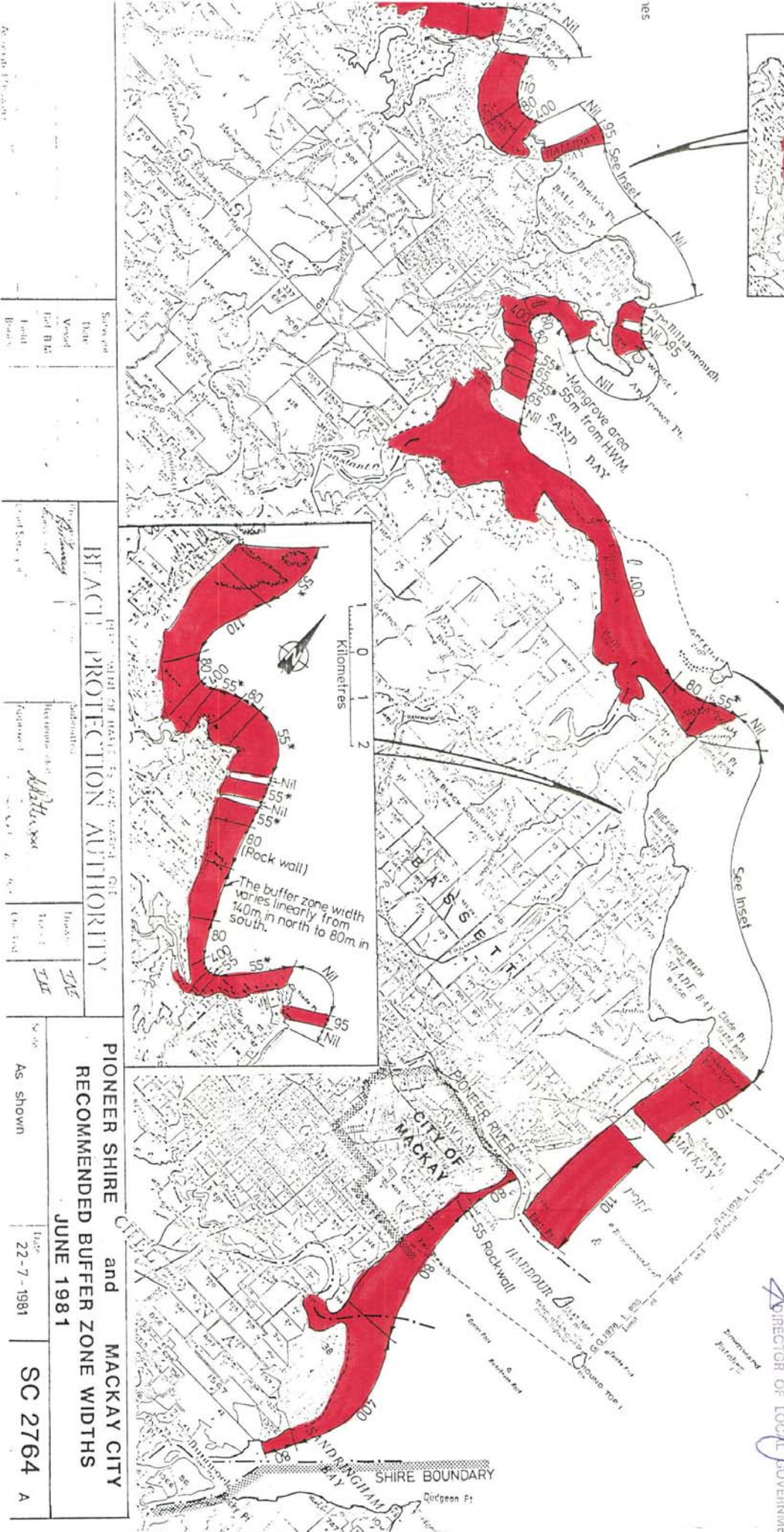
THIS IS PAGE 119 OF THE
COUNTY COURT CASES
BY THE GOVERNOR IN COURT

Scale 1-100,000

One inch equals one mile

THIS IS PAGE 119 OF THE STRATEGIC PLAN MADE BY SUNBELT
David COUNCIL AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON 24.11.83 David

DIRECTOR OF LOCAL GOVERNMENT



501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525
 526
 527
 528
 529
 530
 531
 532
 533
 534
 535
 536
 537
 538
 539
 540
 541
 542
 543
 544
 545
 546
 547
 548
 549
 550
 551
 552
 553
 554
 555
 556
 557
 558
 559
 560
 561
 562
 563
 564
 565
 566
 567
 568
 569
 570
 571
 572
 573
 574
 575
 576
 577
 578
 579
 580
 581
 582
 583
 584
 585
 586
 587
 588
 589
 590
 591
 592
 593
 594
 595
 596
 597
 598
 599
 600
 601
 602
 603
 604
 605
 606
 607
 608
 609
 610
 611
 612
 613
 614
 615
 616
 617
 618
 619
 620
 621
 622
 623
 624
 625
 626
 627
 628
 629
 630
 631
 632
 633
 634
 635
 636
 637
 638
 639
 640
 641
 642
 643
 644
 645
 646
 647
 648
 649
 650
 651
 652
 653
 654
 655
 656
 657
 658
 659
 660
 661
 662
 663
 664
 665
 666
 667
 668
 669
 670
 671
 672
 673
 674
 675
 676
 677
 678
 679
 680
 681
 682
 683
 684
 685
 686
 687
 688
 689
 690
 691
 692
 693
 694
 695
 696
 697
 698
 699
 700
 701
 702
 703
 704
 705
 706
 707
 708
 709
 710
 711
 712
 713
 714
 715
 716
 717
 718
 719
 720
 721
 722
 723
 724
 725
 726
 727
 728
 729
 730
 731
 732
 733
 734
 735
 736
 737
 738
 739
 740
 741
 742
 743
 744
 745
 746
 747
 748
 749
 750
 751
 752
 753
 754
 755
 756
 757
 758
 759
 760
 761
 762
 763
 764
 765
 766
 767
 768
 769
 770
 771
 772
 773
 774
 775
 776
 777
 778
 779
 780
 781
 782
 783
 784
 785
 786
 787
 788
 789
 790
 791
 792
 793
 794
 795
 796
 797
 798
 799
 800
 801
 802
 803
 804
 805
 806
 807
 808
 809
 810
 811
 812
 813
 814
 815
 816
 817
 818
 819
 820
 821
 822
 823
 824
 825
 826
 827
 828
 829
 830
 831
 832
 833
 834
 835
 836
 837
 838
 839
 840
 841
 842
 843
 844
 845
 846
 847
 848
 849
 850
 851
 852
 853
 854
 855
 856
 857
 858
 859
 860
 861
 862
 863
 864
 865
 866
 867
 868
 869
 870
 871
 872
 873
 874
 875
 876
 877
 878
 879
 880
 881
 882
 883
 884
 885
 886
 887
 888
 889
 890
 891
 892
 893
 894
 895
 896
 897
 898
 899
 900
 901
 902
 903
 904
 905
 906
 907
 908
 909
 910
 911
 912
 913
 914
 915
 916
 917
 918
 919
 920
 921
 922
 923
 924
 925
 926
 927
 928
 929
 930
 931
 932
 933
 934
 935
 936
 937
 938
 939
 940
 941
 942
 943
 944
 945
 946
 947
 948
 949
 950
 951
 952
 953
 954
 955
 956
 957
 958
 959
 960
 961
 962
 963
 964
 965
 966
 967
 968
 969
 970
 971
 972
 973
 974
 975
 976
 977
 978
 979
 980
 981
 982
 983
 984
 985
 986
 987
 988
 989
 990
 991
 992
 993
 994
 995
 996
 997
 998
 999
 1000

BT
James
 1875

1. $\frac{1}{2} \times 10^{-10}$ m
 2. 10^{-10} m
 3. 10^{-11} m
 4. 10^{-12} m

1000
 1000
 1000

As shown

22-7-1981

SC 2764 A

FIGURE 18



STRATEGY PLAN FOR PIONEER SHIRE COUNCIL

THIS IS PAGE 120 OF THE STRATEGIC PLAN MADE BY
Shine *24.11.23* *Jack*
 BY THE GOVERNOR IN CONSULTATION WITH THE
 DIRECTOR OF LOCAL GOVERNMENT.



DIVISION OF LAND UTILISATION
QUEENSLAND DEPARTMENT OF PRIMARY INDUSTRIES
MACKAY SUGAR CANE LAND SUITABILITY STUDY

ASSIGNED CANE LAND
(February, 1980)

by G.K. Holz and P.G. Shields.

SCALE 1:100 000



Drawn by G. Finney.

CROWN COPYRIGHT RESERVED

REFERENCE

Assigned Land
(Feb. 1980)

Mill

Tramway



North Eton

—N.E.—



Marian

—M—



Cattle Creek

—C—

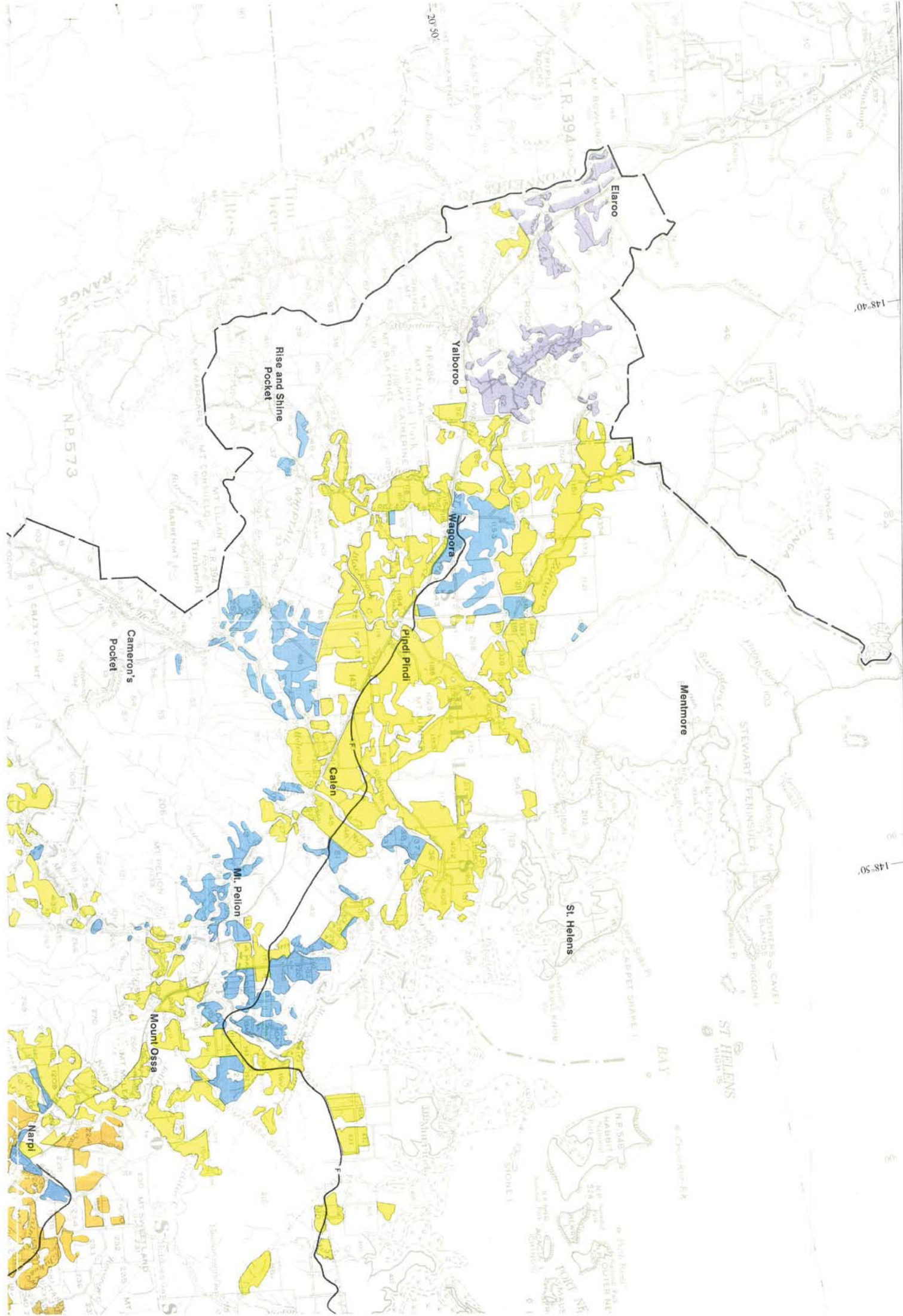


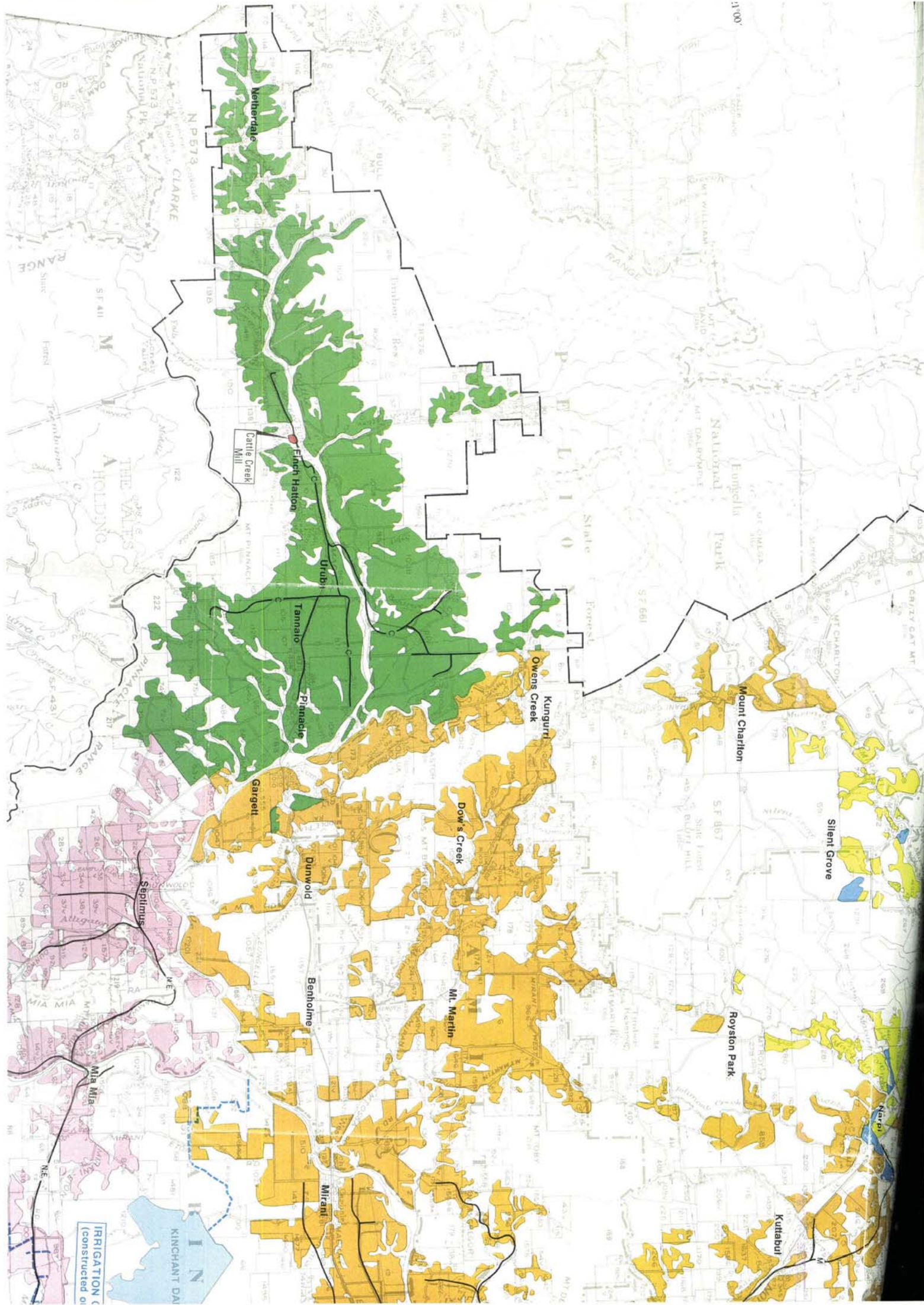
Playtowne

—P—









1:00'

Mount Shasta

Mount Lassen

Klamath Falls

Eureka

Ukiah

Klamath Falls

Mount Shasta

Mount Lassen

Klamath Falls

Eureka

Ukiah

Klamath Falls

Mount Shasta

Mount Lassen

Klamath Falls

Eureka

Ukiah

Klamath Falls

Mount Shasta

Mount Lassen

Klamath Falls

Eureka

Ukiah

Klamath Falls

Mount Shasta

Mount Lassen

Klamath Falls

Eureka

Ukiah

Klamath Falls

Mount Shasta

Mount Lassen

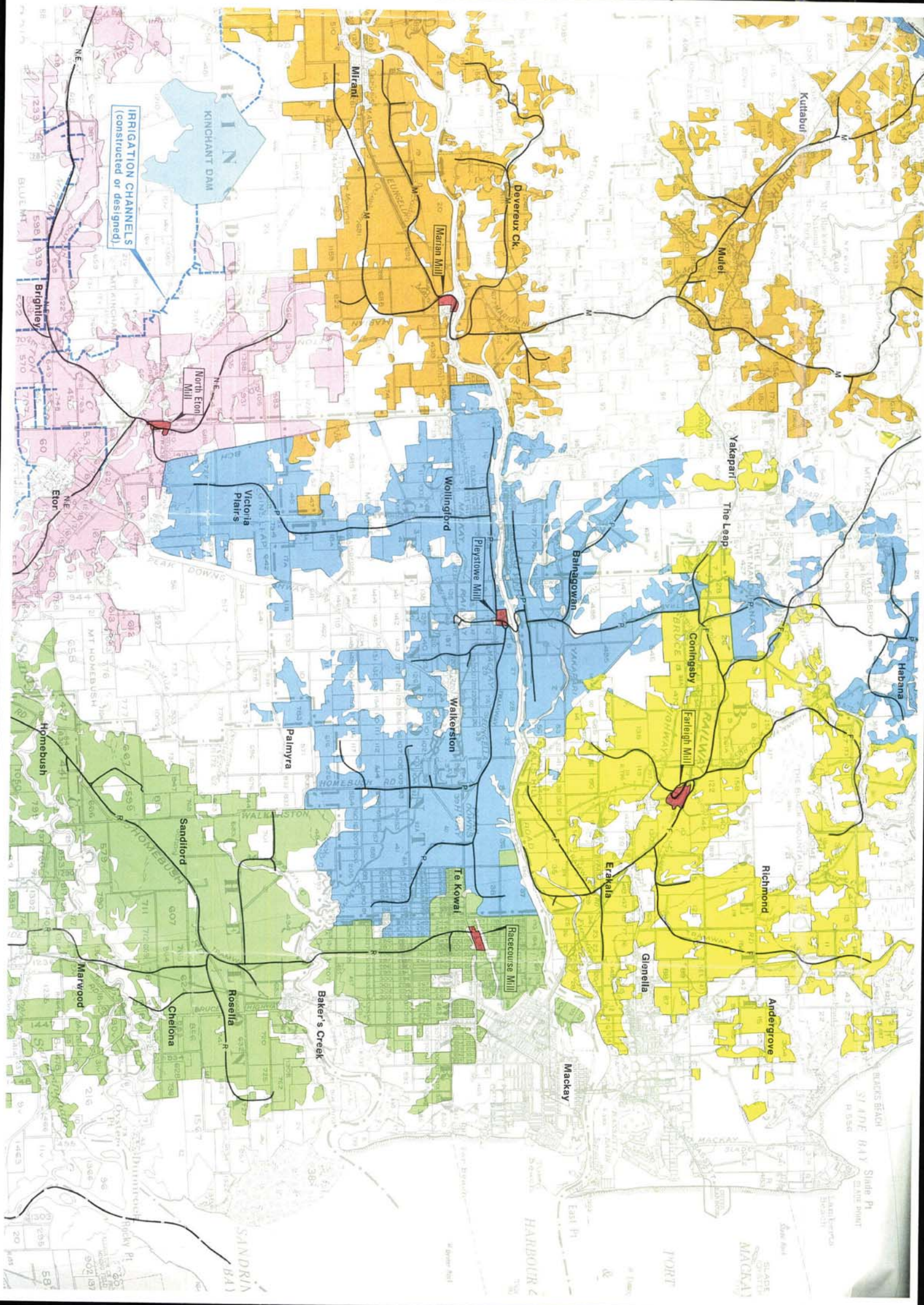
Klamath Falls

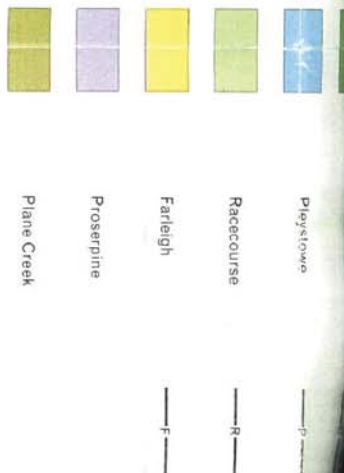
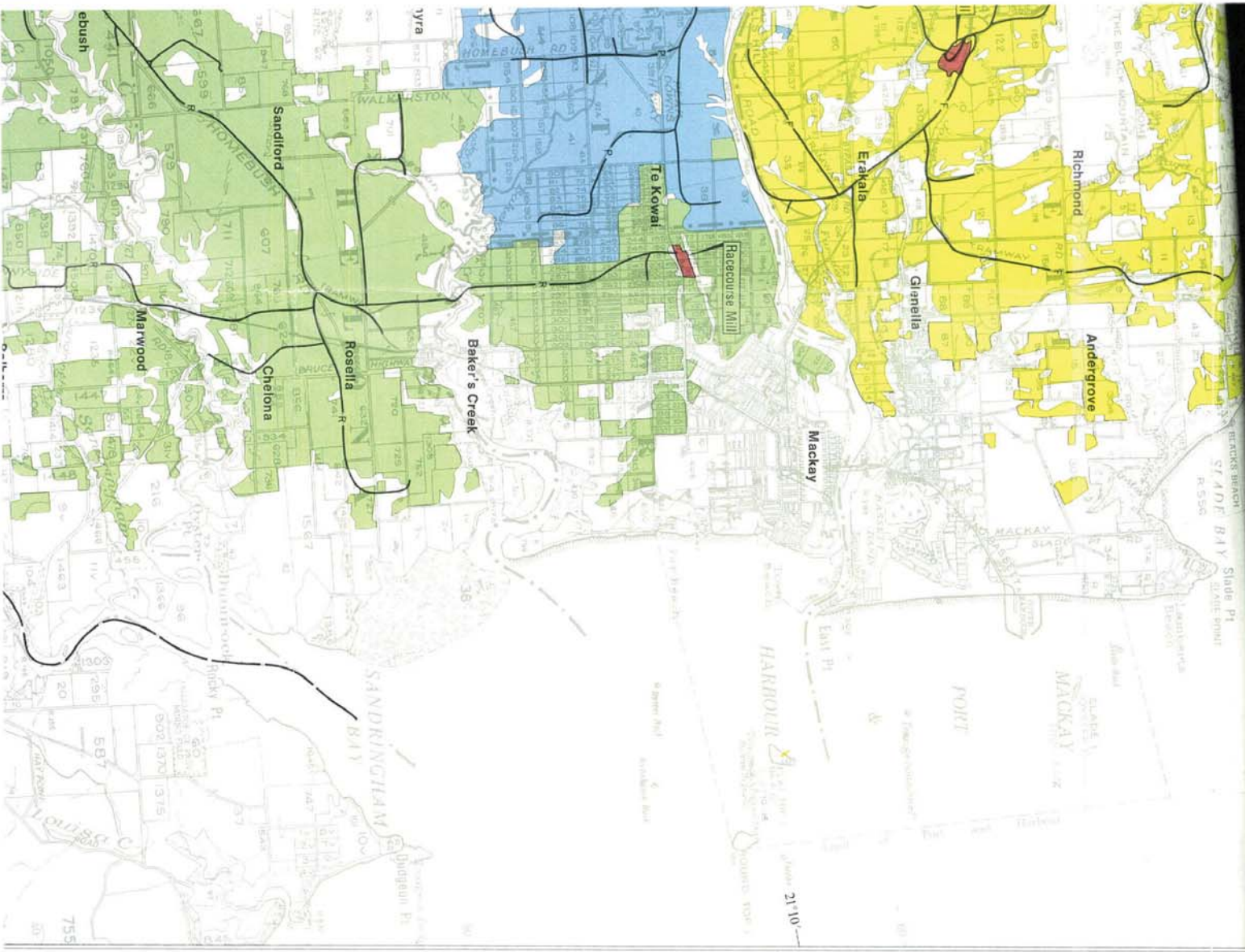
Eureka

Ukiah

Klamath Falls

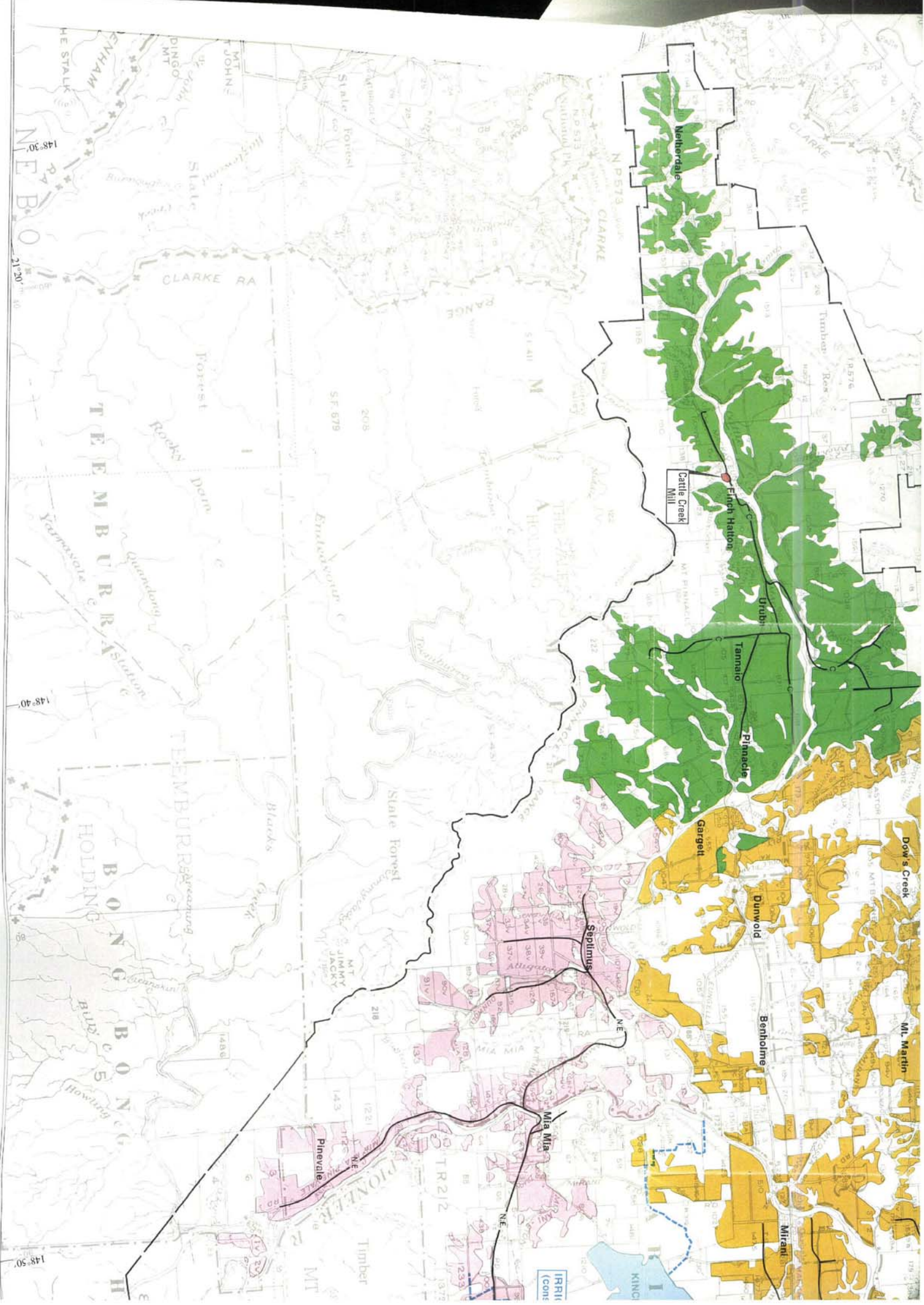
Klamath Falls

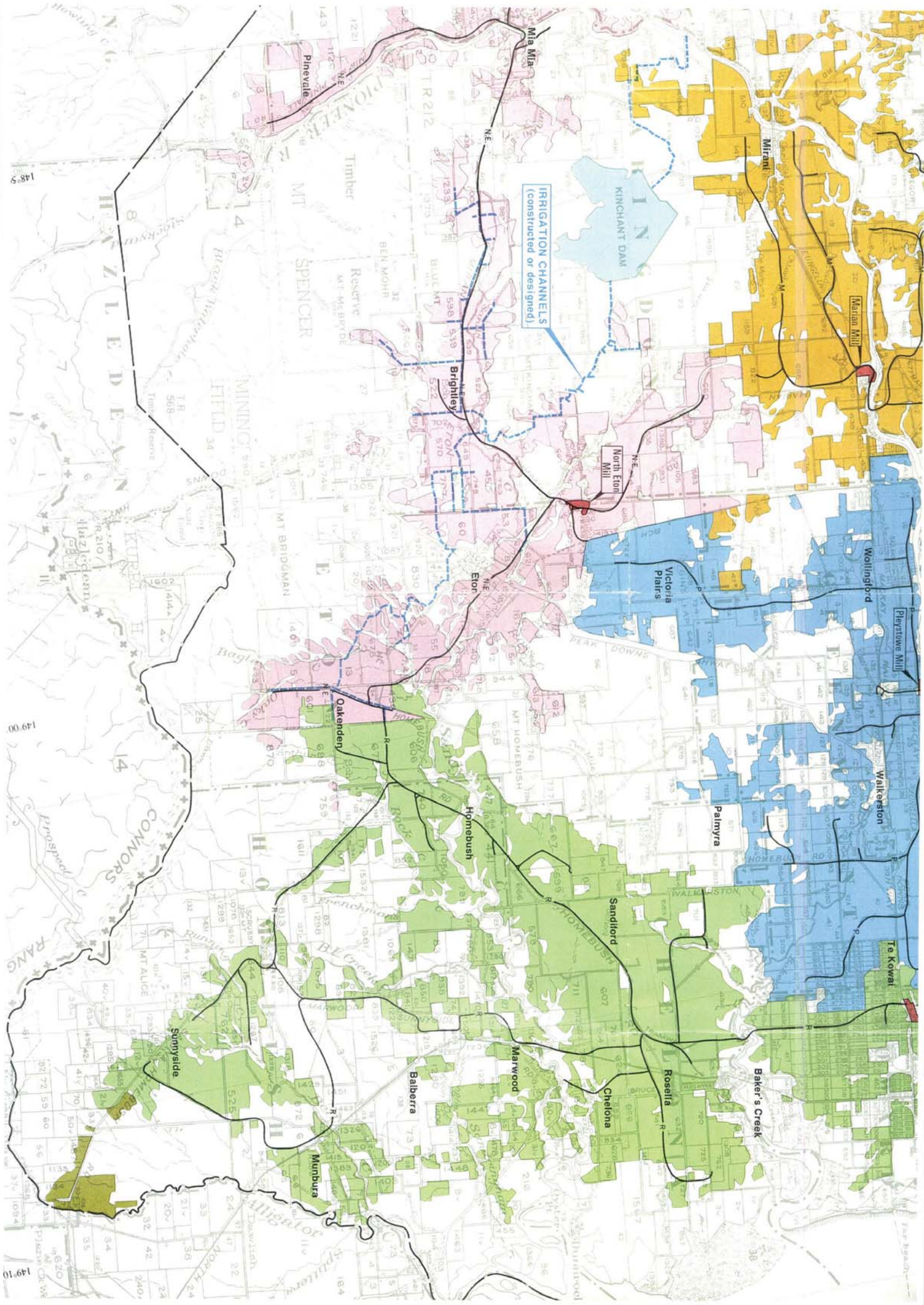


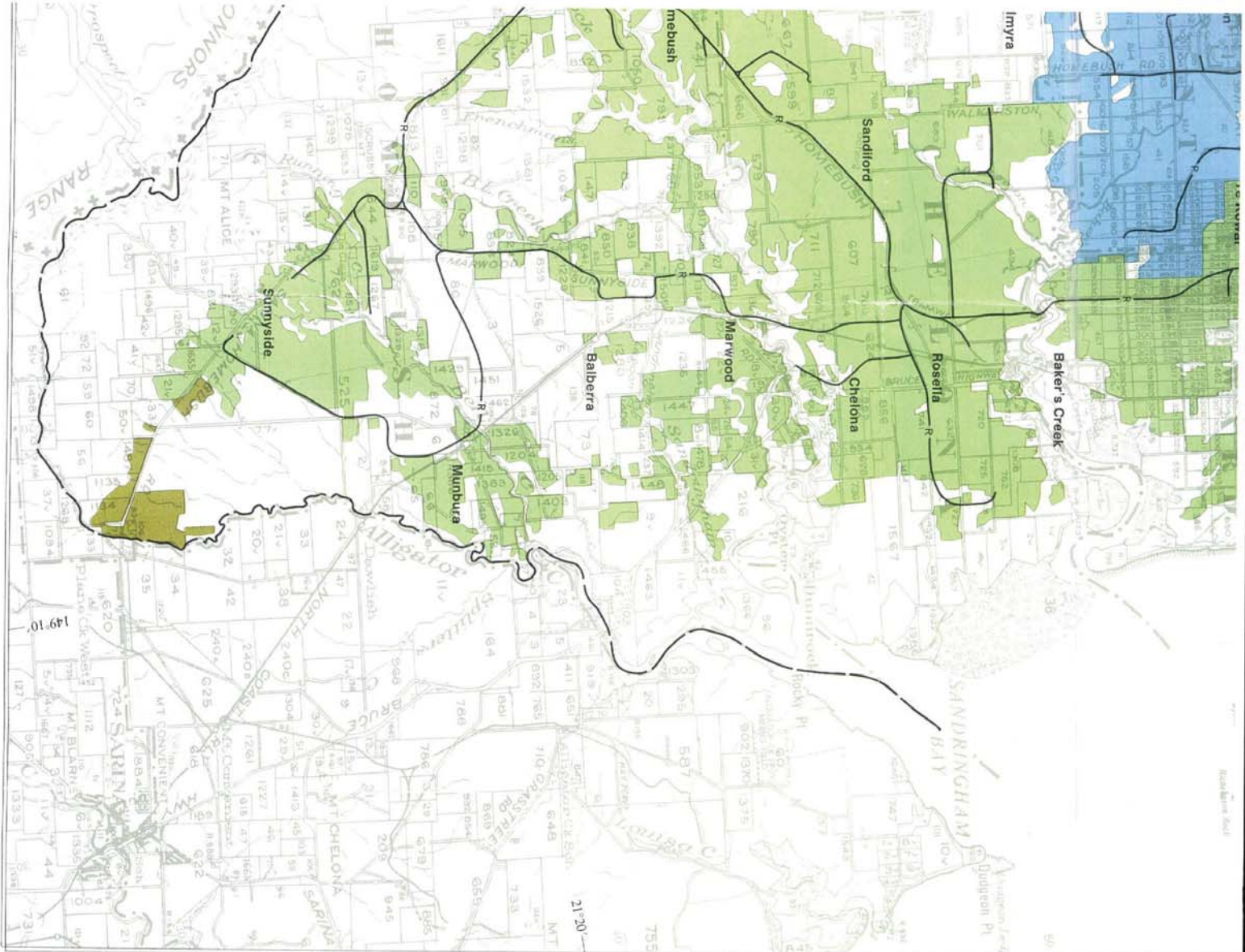


LOCALITY MAP



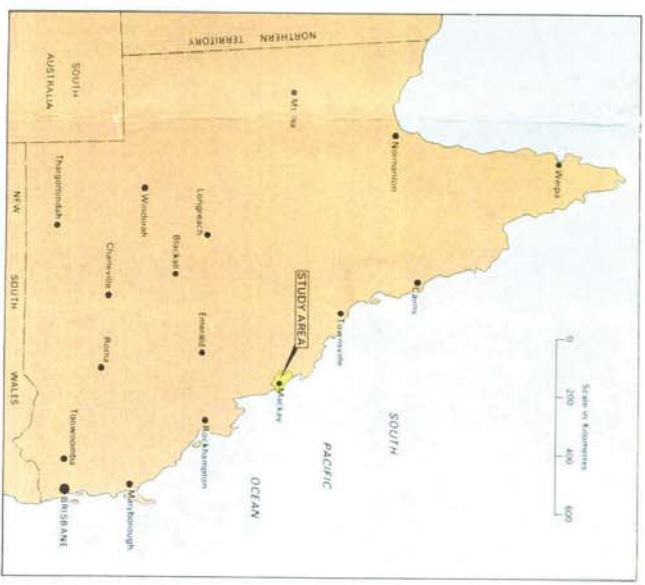






HILLALONG 8555	MIRANI 8655	MACKAY 8755
HARRYBRANDT 8554	NEBO 8554	CARMILA 8754

LOCALITY MAP



THIS IS PAGE 121 OF THE STRATEGIC PLAN MADE BY
Shin COUNCIL, AND APPROVED
 BY THE GOVERNOR IN COUNCIL ON *24.11.83*
H. N. Jacob
 DIRECTOR OF LOCAL GOVERNMENT

COMPILED by G.K. Holz and P.G. Shields, Division of Land Utilisation, Queensland Department of Primary Industries using cane assignment and tramway data supplied by cane inspectors from North Eton, Marian, Cattle Creek, Pleystone, Racecourse, Farleigh, Prosperpine and Plane Creek mills.
 PREPARED by Division of Land Utilisation, Queensland Department of Primary Industries.
 BASE MAP supplied by Department of Mapping and Surveying and reproduced by permission of Surveyor General, Queensland.
 PRINTED at the Government Printing Office, Brisbane, 1980.

FIGURE 19 Map 1