Strategic Revegetation Planning in an Agricultural Landscape

A Spatial Information Technology Approach

Thesis submitted for the degree of

Doctor of Philosophy

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Department of Geographical and Environmental Studies
Department of Applied and Molecular Ecology
National Key Centre for Social Applications of GIS

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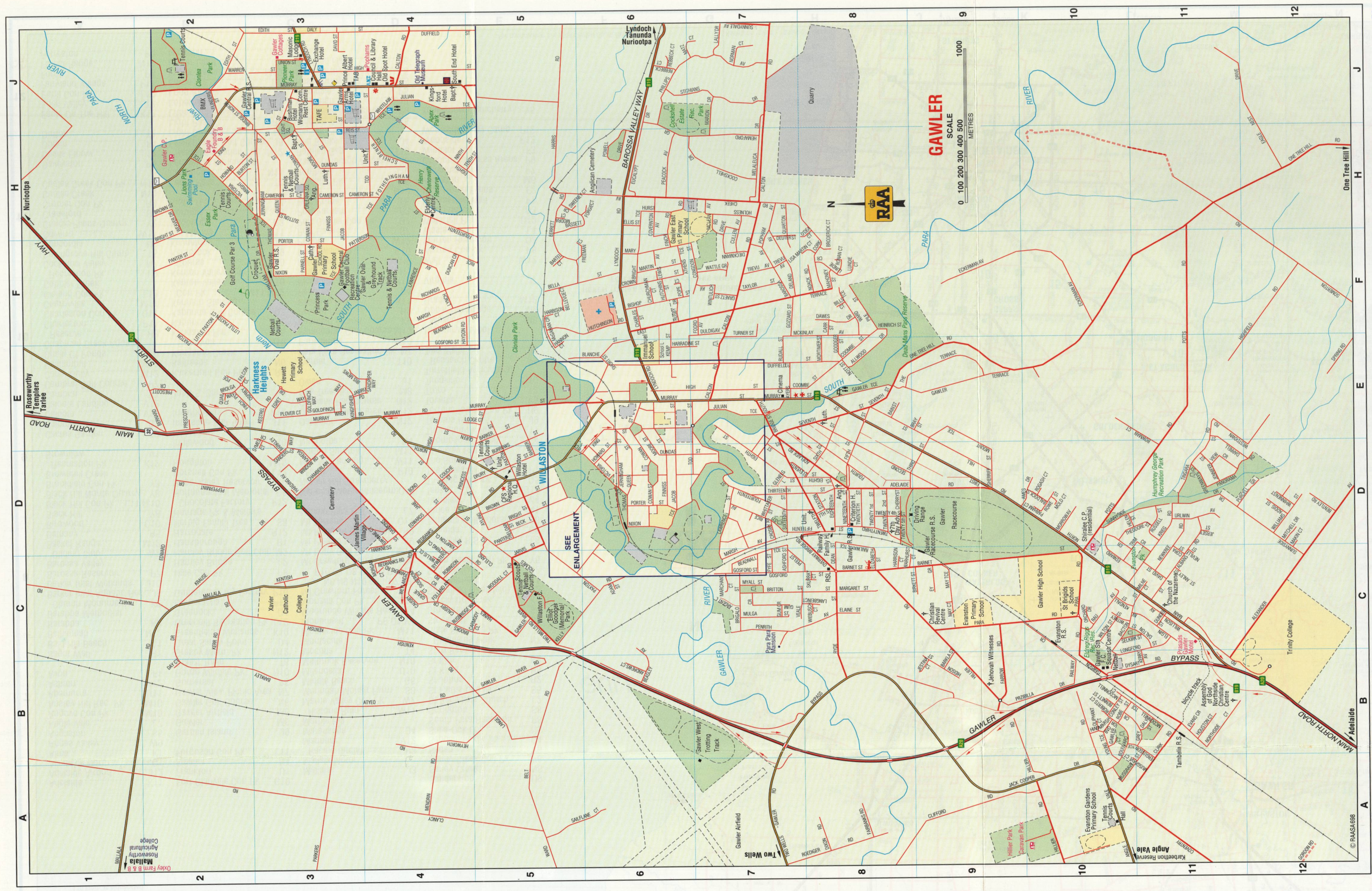

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Gawler Cottages J3
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ANZ Bank J4
Commonwealth Bank J3
National Aust. Bank J4
Westpac Bank J4

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Evanston Gardens Primary School A10
Gawler East Pimary School F6
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Gawler Primary School F3
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Clonlea Pk E5,H2
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Humphrey George Rec. Pk D11
Lions Pk H2
Pioneer Pk J3

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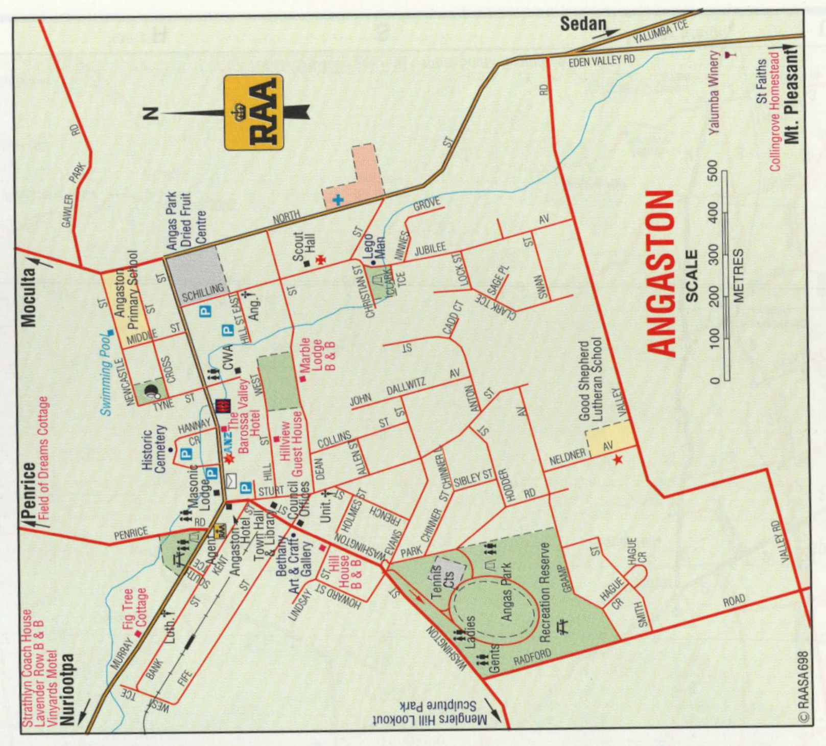

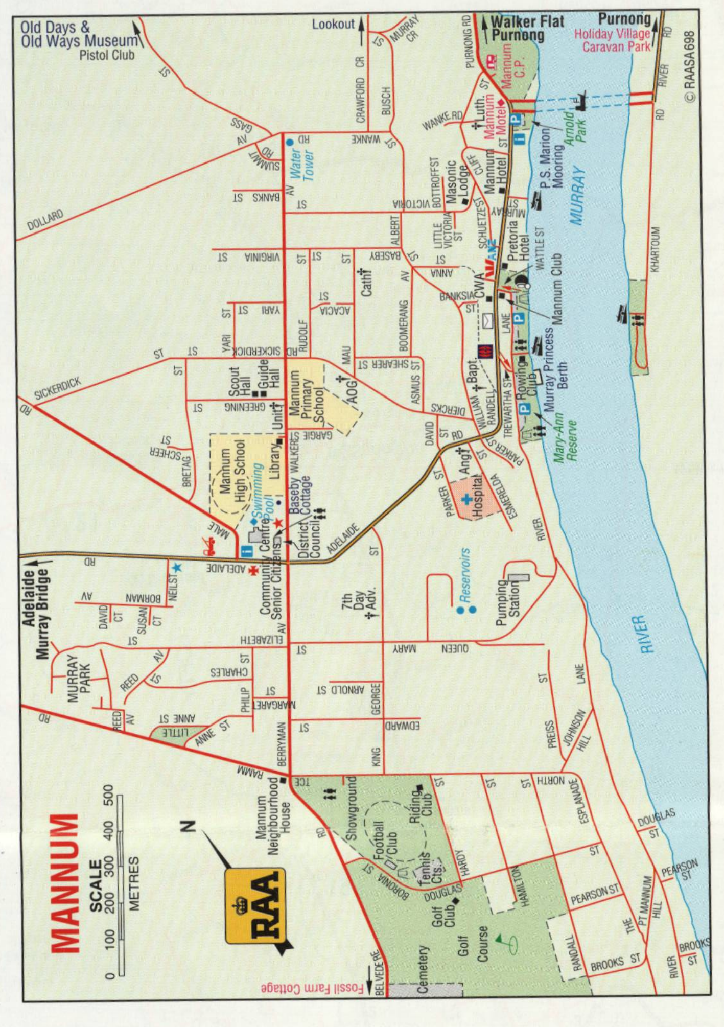

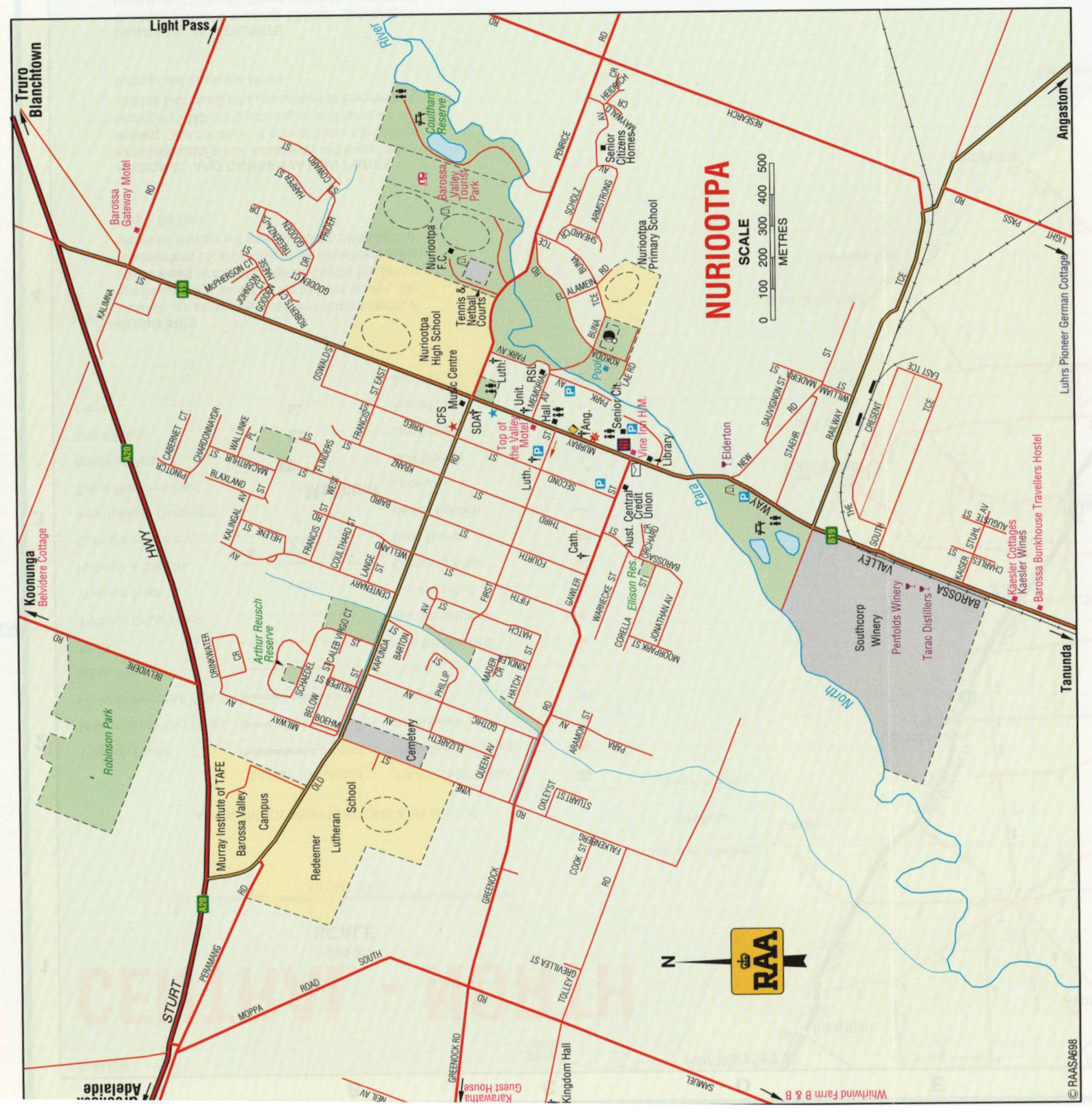

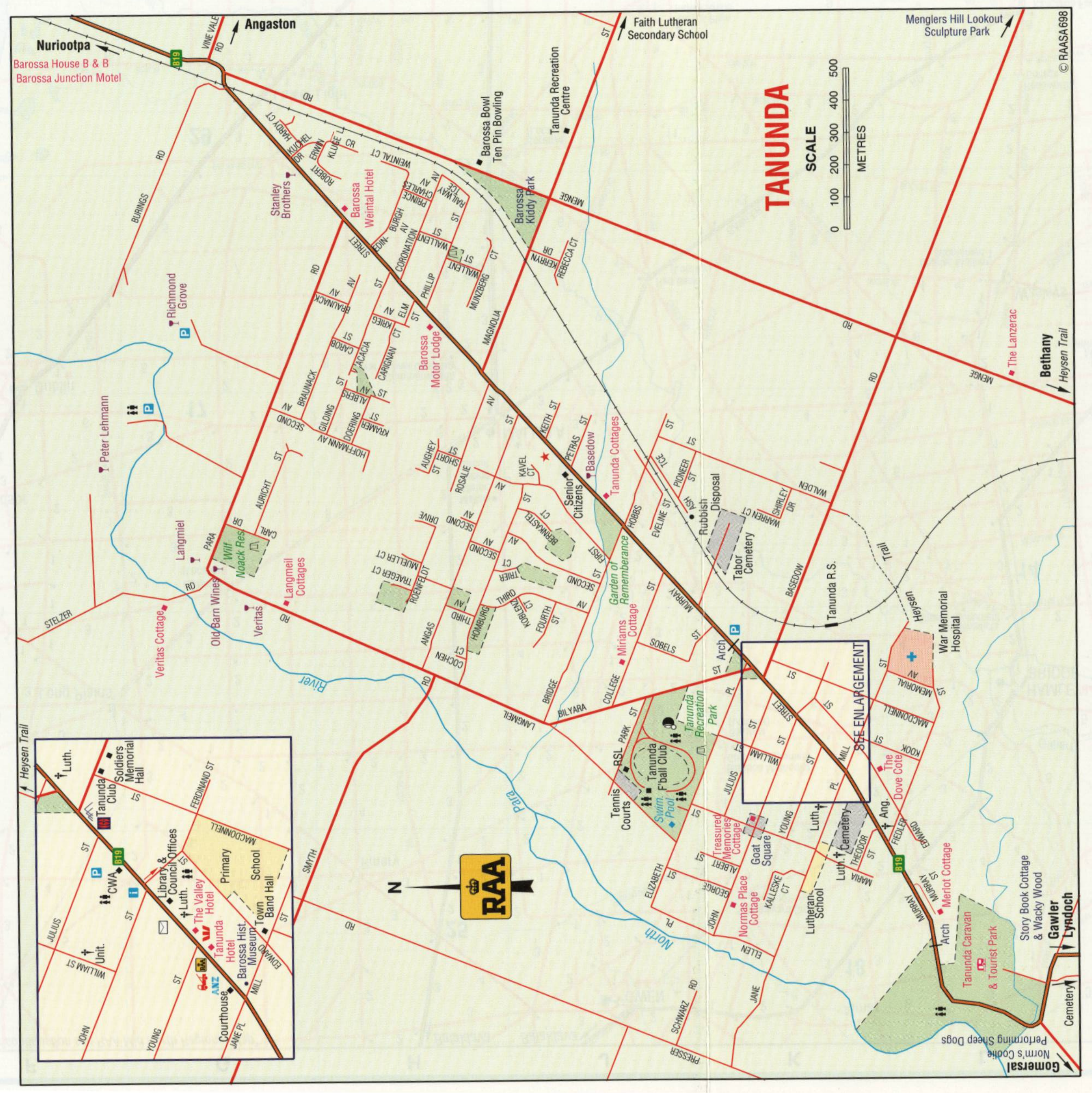

TOWN PLAN LEGEND

Through Route		One Way Traffic	→
Major Connecting Road		Parking	P
Minor Connecting Road		RAA District Office	RAA
Main Street		RAA Service Depot	
Street		Ambulance	✱
Track		Hospital	+
Walking Track		Police	★
Railway & Station		Fire Station CFS/MFS	✱
National Route	A1 1	Tourist Information	i
State Route	M1	Accommodation	■
Caravan Park		Church	†
Ferry		Post Office	
Boat Ramp		Shopping Centre	
Lookout		Adelaide Bank	
Golf Course		ANZ Bank	ANZ
Bowling Club		Bank SA	
Picnic Area		Commonwealth Bank	◆
Playground		National Bank	✱
Public Toilet		Westpac Bank	W
Winery			

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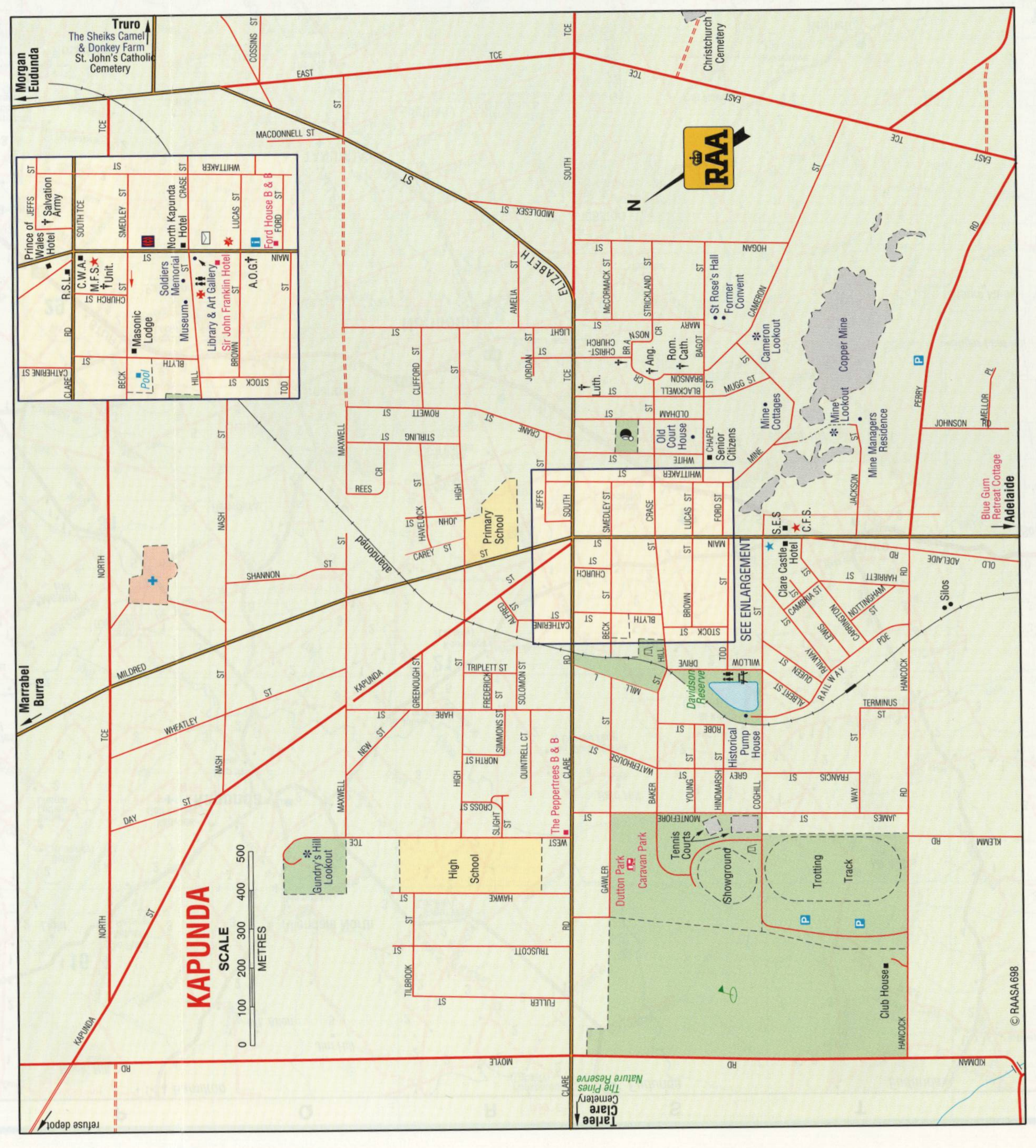

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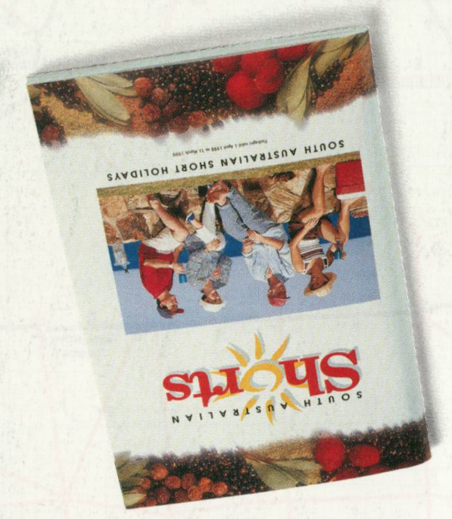
c.2

Now you have the map, lose yourself in here.



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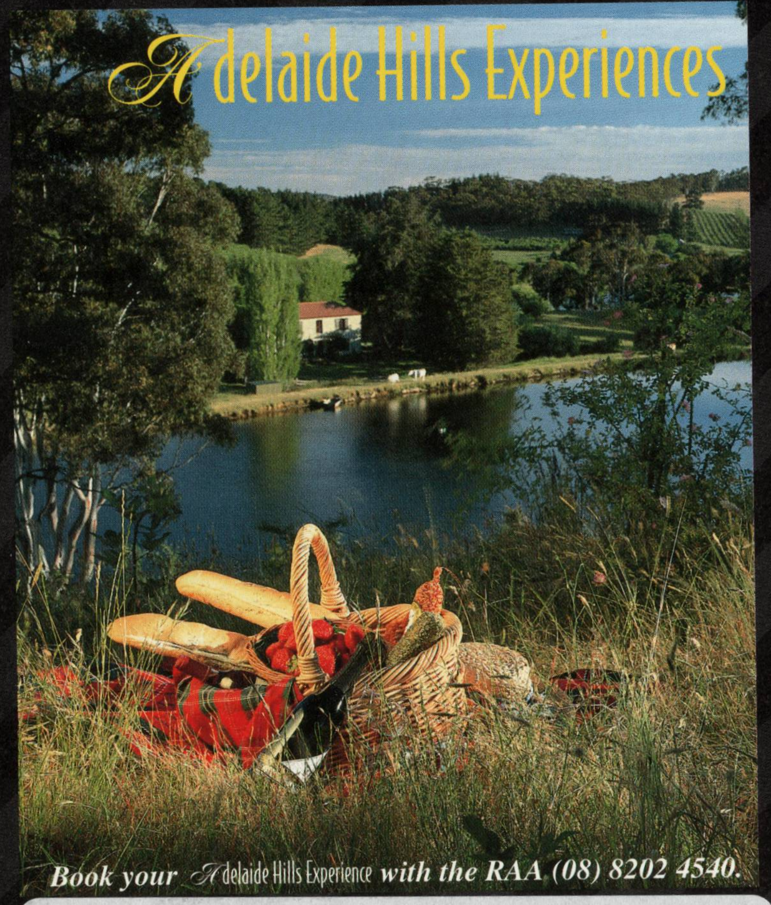

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SOUTH AUSTRALIA REGIONAL MAP SERIES

Attachment 1

RAA TOURING

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CENTRAL - NORTH

1:200,000
SCALE

For continuation see RAA Mid North Regional Map

For continuation see RAA Riverland and Central Murray Map

For continuation see RAA Central South Regional Map

REFER TO RAA ADELAIDE CITY & SUBURBS MAP FOR MORE DETAIL OF THIS AREA

AAA ROAD CLASSIFICATIONS & SYMBOLS

Sealed Unsealed
Through Route
Major Connecting Road
Minor Connecting Road
Other Road
Track
4 Wheel Drive Track
Walking Track
Railway & Station
Cumulative Distances 23
Intermediate Distances 8
Town Plan Included **Mannum**
National Route A1 1
State Route A1
Ferry

RAA District Office
RAA Service Depot
Ambulance
Hospital
Police
Fire Station CFS
Accommodation
Caravan Park
Camping Area
Boat Ramp
Beach Launch
Lookout
Golf Course
Lighthouse
Airport
Airfield

BUSHFIRES
Motorists are advised that Total Fire Protection exists in certain council areas during the bushfire season. Enquiries should be made through the Country Fire Service Headquarters, Local Councils or the Department of Environment, Heritage and Aboriginal Affairs before lighting fires in the open.

NATIONAL AND CONSERVATION PARKS
Parks vary widely in their accessability and level of tourist interest. The condition of access tracks can change seasonally. Motorists planning to visit parks are advised to first contact the Department of Environment, Heritage and Aboriginal Affairs.

PRINCIPAL ROAD LIMITS
Municipality, town or township, 60 km/h. General Open Road limit, 100 km/h. Speed zoning to a maximum 110 km/h as signposted.

Adelaide K11
Adelaide Airport J12
Allendale North Q1
Alma K1
Angas Valley W9
Angaston S5
Angle Vale L7
Angove Con Pk M10
Anstey Hill Rec. Pk M10
Apamurra U11
Ashton M12
Avon F1

Bagot Well R1
Bald Hill Beach C1
Balhannah N12
Barabba K2
Barabba Methodist Church Monument K2
Barker Inlet Aquatic Res J9
Barker Inlet Wetlands J10
Barossa Reservoir P7
Barossa Valley Gliding Club W2
Basket Range M12
Bethany R5
Birdwood Q10
Black Hill Y8
Black Hill Con Pk L11,M10
Black Hill Norite Quarry Y8
Brookfield Con Pk Y3
Brownhill Creek Recreation Pk K12
Brownlow V1

Cactus Garden E3
Calomba G3
Caloote V12
Caloote Landing V12
Cambrai V7
Cambrai Golf Course V7
Carey Gully M12
Castambul M10
Chain Of Ponds N10
Chapman Creek Aquatic Reserve H8
Charleston P11
Charleston Con Pk Q11
Cherryville M11
Cleland Con Pk L12
Cobbler Creek Recreation Pk L9
Cockatoo Valley N7
Collingrove Hill Climb T5
Concordia N6
Cowirra W11
Craigie Plains Quarry Y2
Craneford S7
Cromer Con Pk R9
Cudlee Creek N10
Cudlee Creek Con Pk N10

Daveyston P4
Devils Elbow L12
Dublin F4
Dutton T2

Eagle On The Hill K12
Eden Valley T7
Eurill Con Pk L12
Fairyland Village P11
Fords P3
Forest Range N12
Forreston P9

Fort Glanville Con Pk G10
Frankton U1
Freeling N4
Furguson Con Pk L11

Garden Island J9
Gawler M6
Gawler Airfield M6
Gawler Golf Course N6
Gawler View Picnic Area ..N7
Gomersal P5
Gorge Wildlife Pk N10
Graezt Town T6
Grasby Mem. Pk N12
Great Sandy Point D4
Greenfields Wetlands K10
Greenhill Recreation Pk ..L12
Greenock Q4
Gumeracha P10
Gumeracha Toy Factory .P10

Hale Con Pk P8
Hamley Bridge L2
Hamley Bridge Golf Club .M2
Hansborough R1
Harrogate R12
Herbig Family Tree S8
Heritage Pk & Melba's Chocolate Factory P12
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Horsnell Con Pk L12
Houghton M10

Inglewood M10
Inkerman D1
Interstate Rail Term. J11
Inverbrackie P12

John S. Christian Res. Y8

Kaisertuhl Con Pk R6
Kalbeeba N6
Kangaroo Creek Reservoir N10
Kangaroo Flat L5
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Kapunda Golf Course Q2
Kenneth Sterling Con Pk M11,M12
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Kersbrook N9
Keyneton T6
Kia Marina X11
Koonunga R3
Korunye J5
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Lenswood Agricultural Research Station N12
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Light Pass R4
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Tanunda Golf Course Q6
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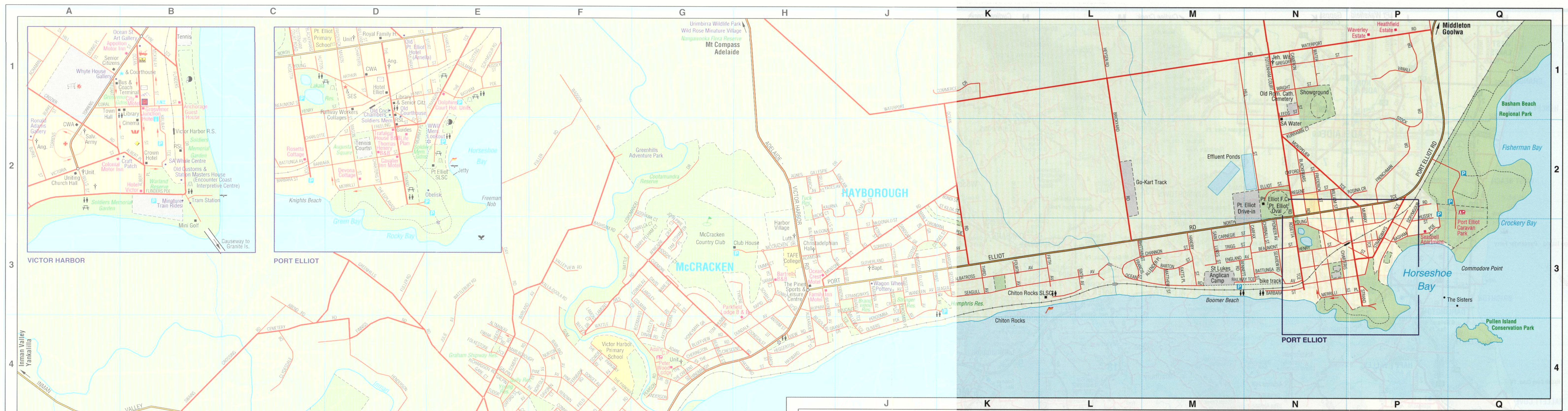

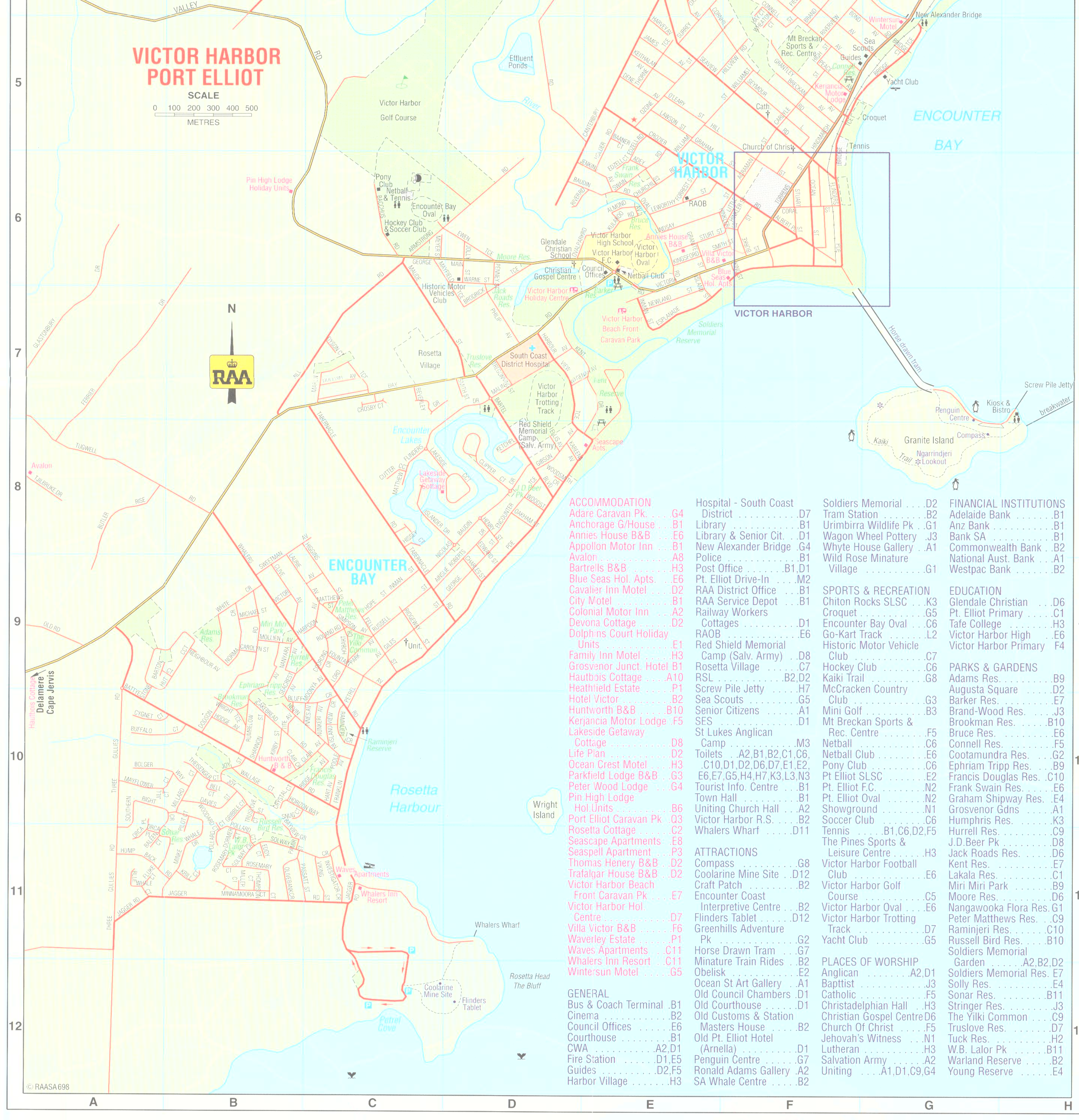

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Croquet G5
Encounter Bay Oval ... C6
Go-Kart Track L2
Historic Motor Vehicle Club C7
Hockey Club C6
Kaiki Trail G8
McCracken Country Club G3
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Anz Bank B1
Bank SA B1
Commonwealth Bank .. B2
National Aust. Bank ... A1
Westpac Bank B2

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Pt. Elliot Primary C1
Tafe College H3
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Victor Harbor Primary F4

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Barker Res. E7
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Brookman Res. B10
Bruce Res. E6
Connell Res. F5
Cootamundra Res. ... G2
Ephriam Tripp Res. ... B9
Francis Douglas Res. .C10
Frank Swain Res. E6
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Hurrell Res. C9
J.D.Beer Pk D8
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Solly Res. E4
Sonar Res. B11
Stringer Res. J3
The Yilki Common C9
Truslove Res. D7
Tuck Res. H2
W.B. Lalor Pk B11
Warland Reserve B2
Young Reserve E4

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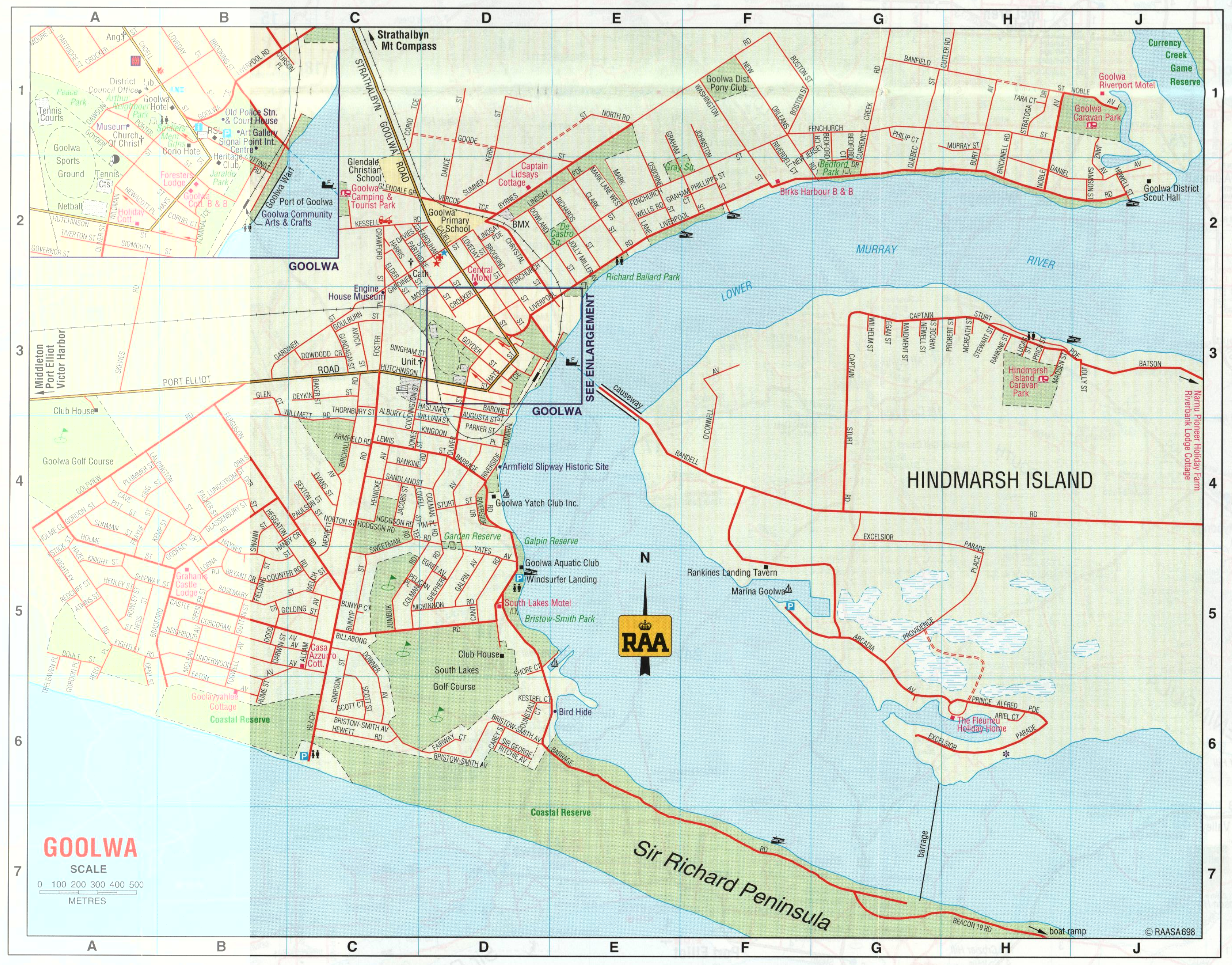
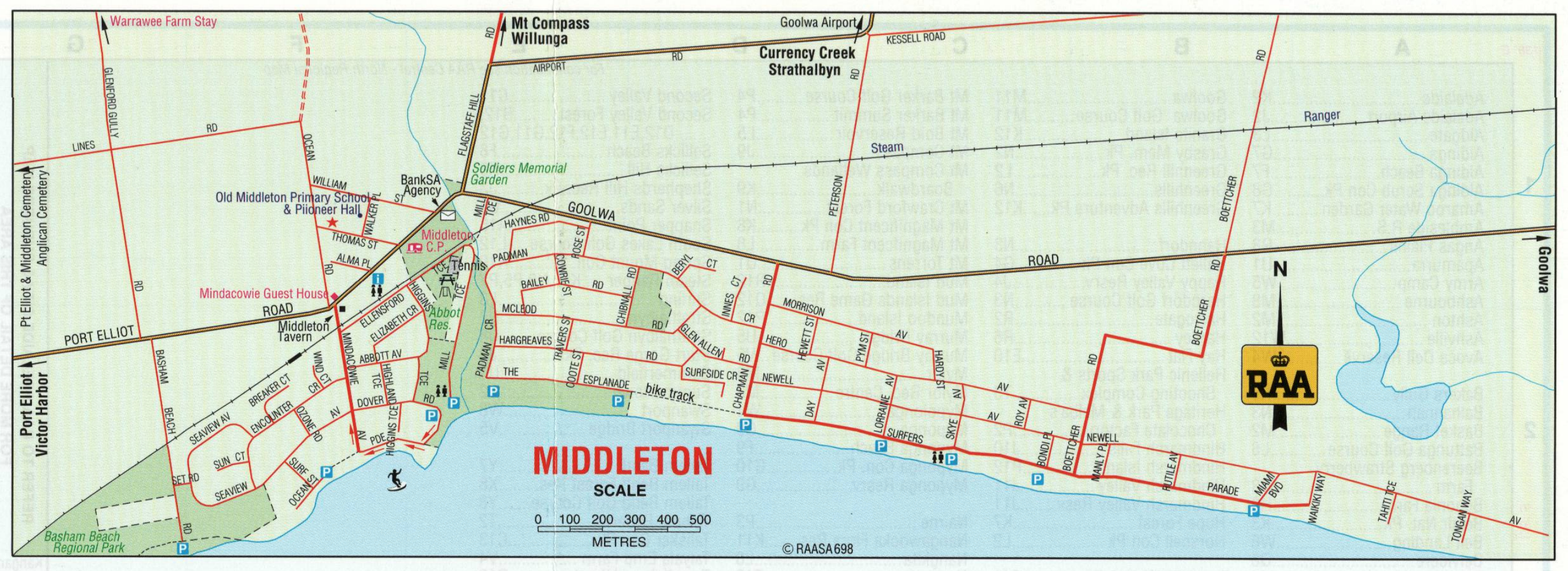
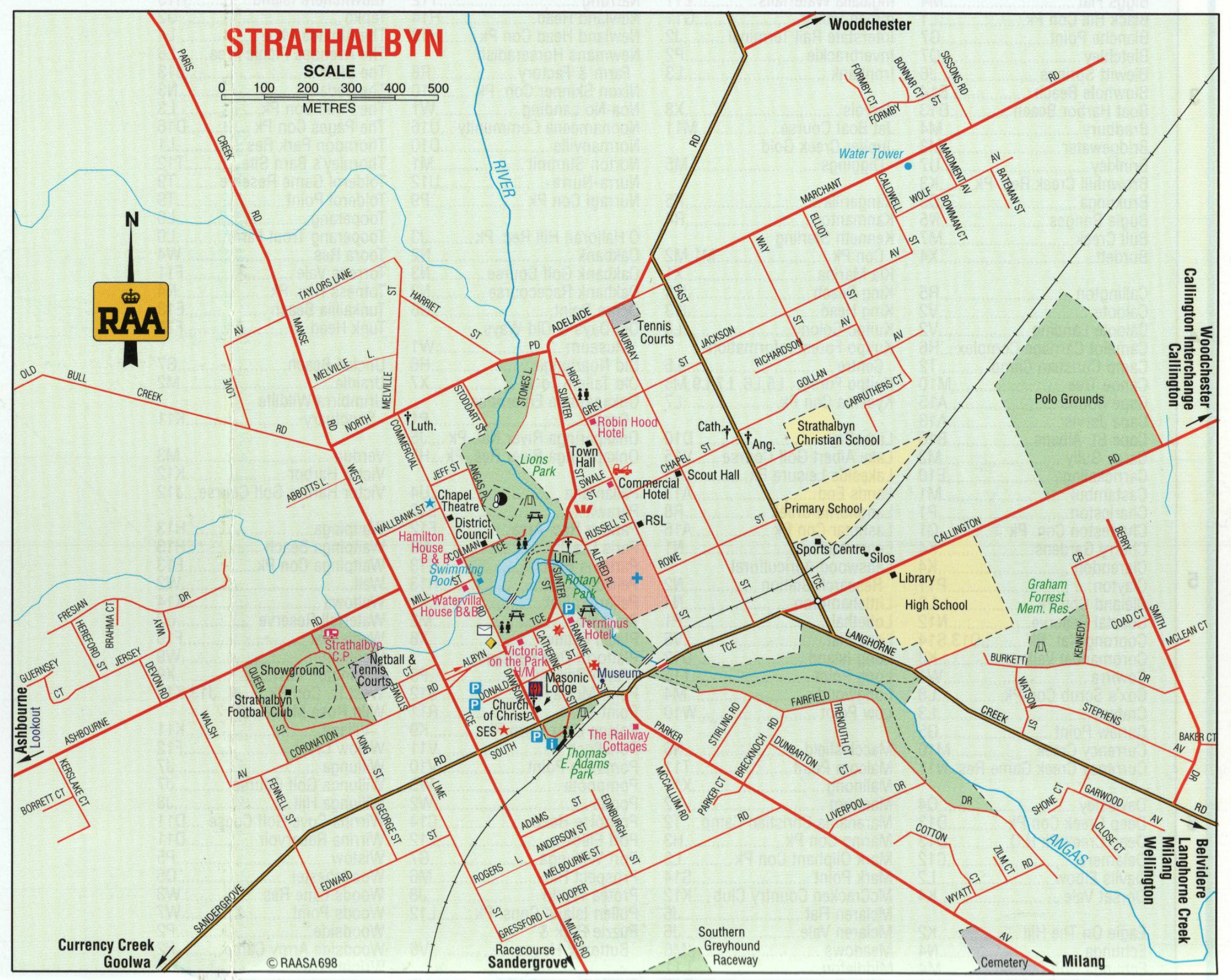




TOWN PLAN LEGEND
Freeway
Through Route
Major Connecting Road
Minor Connecting Road
Main Street
Street
Track
Walking Track
Railway & Station
National Route
State Route
One Way Traffic
Parking
RAA District Office
RAA Service Depot
Ambulance
Hospital
Police
Fire Station CFS/MFS
Tourist Information
Accommodation
Caravan Park
Boat Ramp
Beach Launch
Ferry
Lookout
Golf Course
Bowling Club
Picnic Area
Playground
Public Toilet
Whale Watch
Penguins
Surfing
Patrolled Beach
Winery
Church
Post Office
Shopping Centre
Adelaide Bank
ANZ Bank
Bank SA
Commonwealth Bank
National Bank
Westpac Bank



GOOLWA INDEX

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Foresters Lodge B2
Goolayyahlee Cottage B6
Goolwa Camping & Tourist Park C2
Goolwa Caravan Park J1
Goolwa Cottage B & B B2
Goolwa Riverport Motel J1
Grahams Castle Lodge B5
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GENERAL
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District Council Office A1
Fire Station D2
Goolwa Hotel A1
Goolwa District Scout Hall J2
Goolwa Warf B2
Library A1
Police D2
Port of Goolwa B2
Post Office B1
RAA Service Depots C2
Rankines Landing Tavern .F5
RSL B1
Toilets B1,B2,C6,D5,E2,H3
Tourist Info. Centre B1

ATTRACTIONS
Armfield Slipway Historic Site D4
Art Gallery B1
Bird Hide E6
Engine House Museum C3
Goolwa Community Arts & Crafts B2
Museum A1
Old Police Station B1
Signal Point Interpretive Centre B1

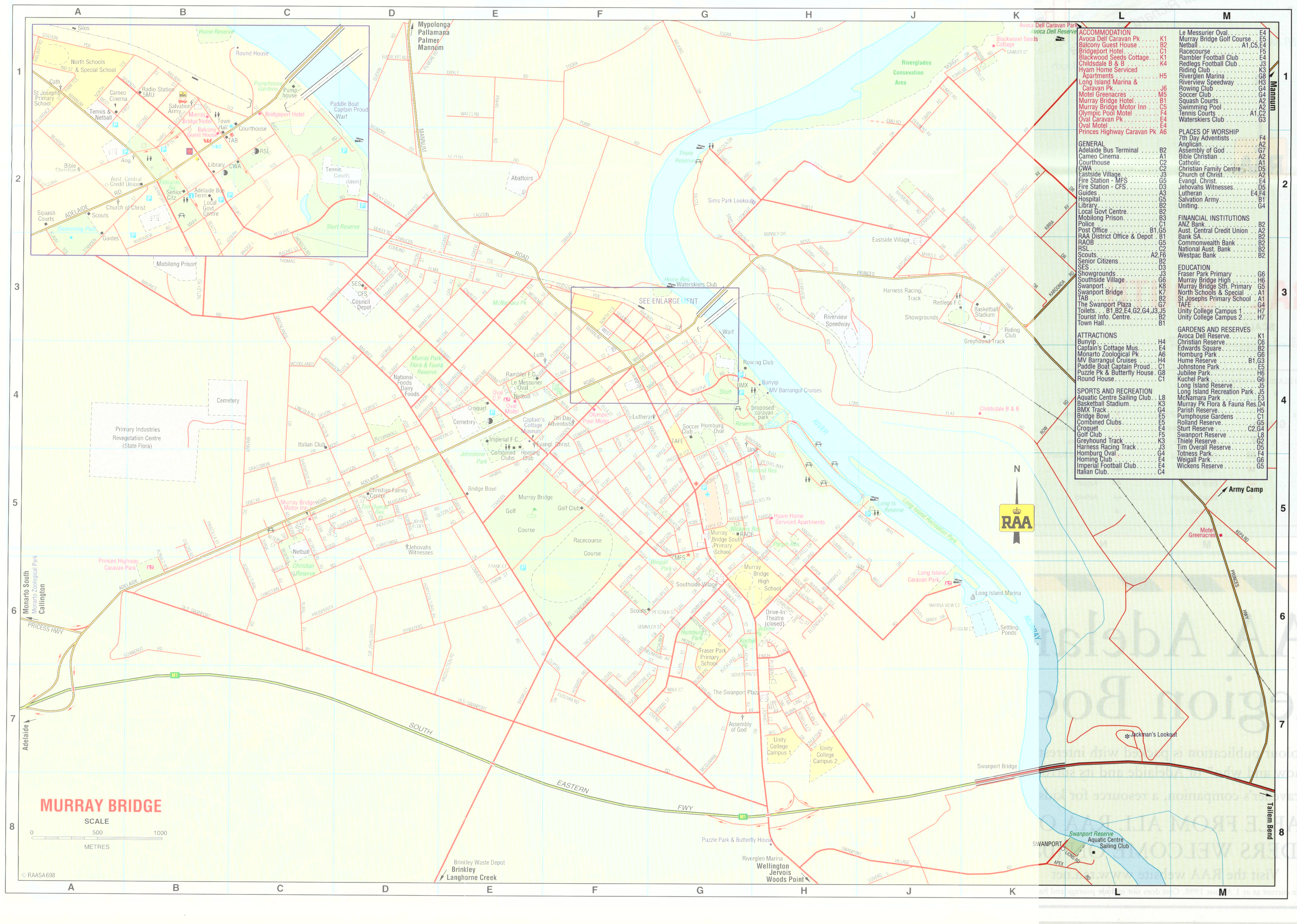
SPORTS & RECREATION
BMX D2
Goolwa Aquatic Club D5
Goolwa Dist. Pony Club F1
Goolwa Golf Course A4
Goolwa Sports Ground A2
Goolwa Yatch Club Inc. D4
Heritage Club B2
Marina Goolwa F5
Netball Courts A2
South Lakes Golf Course .D5
Tennis Courts A1,A2
Windsurfer Landing D5

PLACES OF WORSHIP
Anglican A1
Catholic C2
Church Of Christ A1
Uniting C3

FINANCIAL INSTITUTIONS
ANZ Bank B1
Bank SA A1
National Aust. Bank B1

EDUCATION
Glendale Christian School C2
Goolwa Primary School ... D2

GARDENS & RESERVES
Arthur Neighbour Park A1
Bedford Park G2
Bristow-Smith Park D5
Coastal Reserve B6,D7
Currency Creek Game Reserve J1
De Castro Square E2
Galpin Reserve D4
Garden Reserve D4
Gray Square E2
Jaralde Park B2
Peace Park A1
Richard Ballard Park E2
Soldiers Memorial Gardens B1



ACCOMMODATION
Avoca Dell Caravan Pk K1
Balcony Guest House B2
Bridgeport Hotel C1
Blackwood Seeds Cottage... K1
Childsdale B & B K4
Hyam Home Serviced Apartments H5
Long Island Marina & Caravan Pk J6
Motel Greenacres M5
Murray Bridge Hotel B1
Murray Bridge Motor Inn ... C5
Olympic Pool Motel F4
Oval Caravan Pk E4
Oval Motel E4
Princes Highway Caravan Pk A6

GENERAL
Adelaide Bus Terminal B2
Cameo Cinema A1
Courthouse C2
CWA C2
Eastside Village J3
Fire Station - MFS G5
Fire Station - CFS D3
Guides A3
Hospital G5
Library B2
Local Govt Centre B2
Mobilong Prison B3
Police C1
Post Office B1,G5
RAA District Office & Depot . B1
RAOB G5
RSL C2
Scouts A2,F6
Senior Citizens B2
SES D3
Showgrounds J3
Southside Village G6
Swanport K8
Swanport Bridge K7
TAB B2
The Swanport Plaza G7
Toilets... B1,B2,E4,G2,G4,J3,J5
Tourist Info. Centre B2
Town Hall B1

ATTRACTIONS
Bunyip H4
Captain's Cottage Mus. E4
Monarto Zoological Pk A6
MV Barrangul Cruises H4
Paddle Boat Captain Proud .. C1
Puzzle Pk & Butterfly House . G8
Round House C1

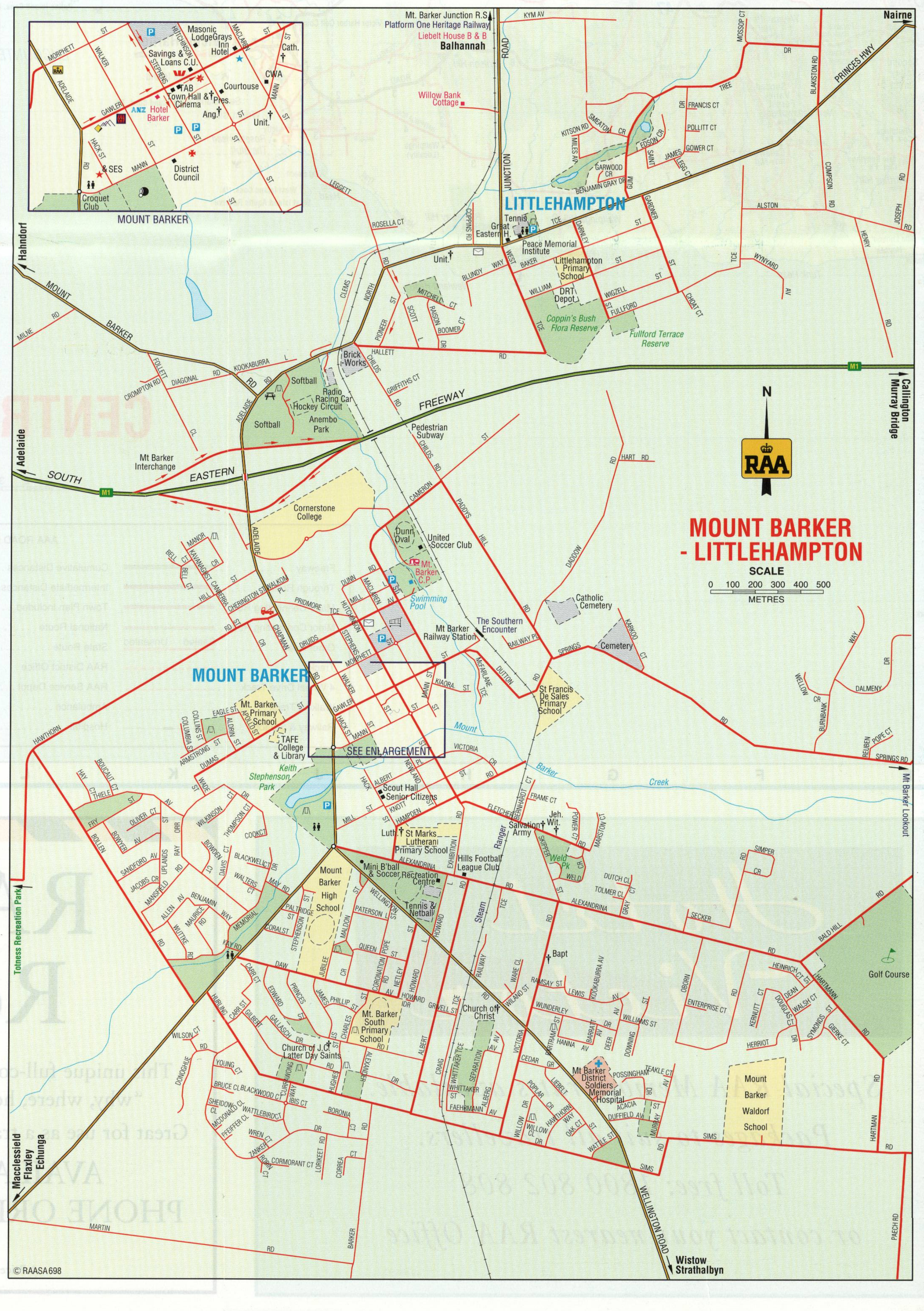
SPORTS AND RECREATION
Aquatic Centre Sailing Club .. L8
Basketball Stadium K3
BMX Track G4
Bridge Bowl E5
Combined Clubs E5
Croquet E4
Golf Club F5
Greyhound Track K3
Harness Racing Track J3
Homburg Oval G4
Homing Club E4
Imperial Football Club E4
Italian Club C4
Le Messurier Oval E4
Murray Bridge Golf Course .. E5
Netball A1,C5,E4
Racecourse F5
Rambler Football Club E4
Redlegs Football Club J3
Riding Club K3
Riverglen Marina G8
Riverview Speedway H3
Rowing Club G4
Soccer Club G4
Squash Courts A2
Swimming Pool A2
Tennis Courts A1,C2
Waterskiers Club G3

PLACES OF WORSHIP
7th Day Adventists F4
Anglican A2
Assembly of God G7
Bible Christian A2
Catholic A1
Christian Family Centre D5
Church of Christ A2
Evangl. Christ. E4
Jehovahs Witnesses D5
Lutheran E4,F4
Salvation Army B1
Uniting G4

FINANCIAL INSTITUTIONS
ANZ Bank B2
Aust. Central Credit Union .. A2
Bank SA B2
Commonwealth Bank B2
National Aust. Bank B2
Westpac Bank B2

EDUCATION
Fraser Park Primary G6
Murray Bridge High H6
Murray Bridge Sth. Primary G5
North Schools & Special ... A1
St Josephs Primary School . A1
TAFE G4
Unity College Campus 1 .... H7
Unity College Campus 2 .... H7

GARDENS AND RESERVES
Avoca Dell Reserve K1
Christian Reserve C6
Edwards Square B2
Homburg Park G6
Hume Reserve B1,G3
Johnstone Park E5
Jubilee Park H6
Kuchel Park G6
Long Island Reserve J5
Long Island Recreation Park . J5
McNamara Park E3
Murray Pk Flora & Fauna Res.D4
Parish Reserve H5
Pumphouse Gardens C1
Rolland Reserve G5
Sturt Reserve C2,G4
Swanport Reserve L8
Thiele Reserve G2
Tim Overall Reserve D5
Totness Park F4
Weigall Park G6
Wickens Reserve G5



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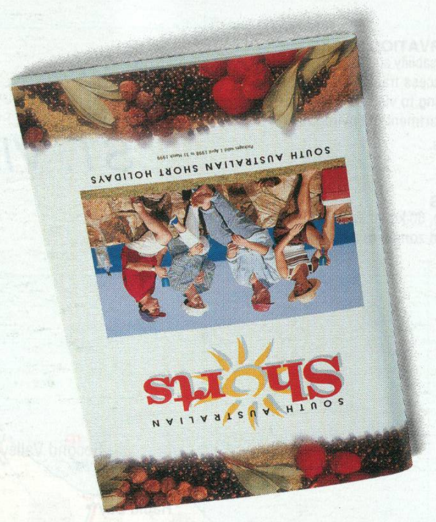
Now you have the map, lose yourself in here.



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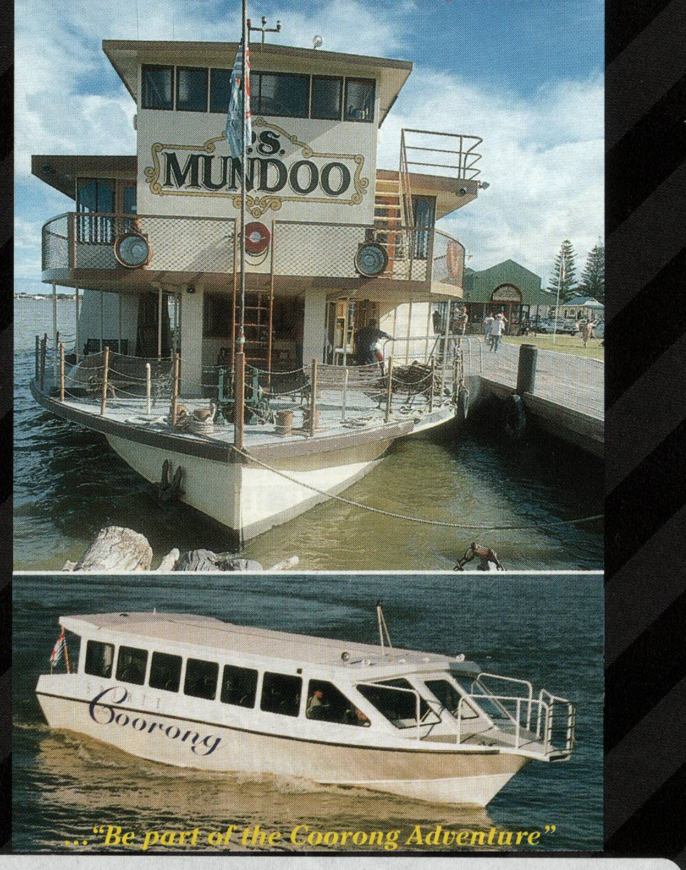

"Be part of the Coorong Adventure"

Attachment 2

SOUTH AUSTRALIAN REGIONAL MAP SERIES
RAA TOURING

For continuation see RAA Central - North Regional Map

Adelaide K2
Adelaide Airport....J2
Aldgate....L3
Aldinga G7
Aldinga Beach....F7
Aldinga Scrub Con Pk....G8
Amaroo Water Garden K7
Ambleside R.S. M3
Angas Plains....R8
Apamurra....U1
Army Camp....W5
Ashbourne M8
Ashton M2
Ashville....W12
Avoca Dell Reserve....W4

Bakers Gully....K5
Balhannah....N3
Basket Range....M2
Battunga Golf Course....L6
Beerenberg Strawberry
  Farm....N3
Begonia Farm....H9
Belair Nat. Pk....K3
Bell Landing....W6
Belvidere....Q8
Biggs Flat....M4
Black Hill Con Pk....L1
Blanche Point....G7
Bletchley....Q7
Blewitt Springs....J6
Blowhole Beach....B14
Boat Harbor Beach....D13
Bradbury....M4
Bridgewater....M3
Brinkley....U7
Brownhill Creek Rec. Pk. K3
Brukunga....Q3
Bugle Ranges....N5
Bull Creek....M7
Burdett....X4

Callington R5
Caloote....V2
Caloote Landing....V2
Camelot Carriage Complex ...H6
Camp Christian Camp T2
Canoe Tree M10
Cape Coutts A15
Cape Jervis A13
Cape St. Albans....B16
Carey Gully....M2
Carrickalinga E10
Castambul....M1
Charleston....P1
Charleston Con. Pk....Q1
Cherry Gardens....K4
Clarendon K4
Clayton....P11
Cleland Con Pk....L2
Coastal Reserve....N12
Coorong Nat. Pk....Q13,S14
Coromandal Valley K3
Cowirra W1
Cox's Scrub Con Pk. L8
Crafers L3
Curlew Point....G5
Currency Creek M10
Currency Creek Game Res..N11

Dawesley Q4
Deep Creek Con Pk....D13
Deep Creek Pk H.Q. D13
Delamere....C12
Devils Elbow....L2
Dorset Vale K4

Eagle On The Hill K2
Echunga....N4
Echunga Golf Course M4
Engelbrecht Reseve....M3
Eric Bonython Con Pk....E13
Ettrick Cfs Y5
Eurill Con Pk. L2

Fairyland Village....P1
Ferries-Mcdonald Con Pk....T7
Finniss....N9
Finniss Con Pk. L8
Fishery Beach B13
Flaxley....N5
Fleurieu Golf Course....J9
Forest Range N2
Fred's Landing Y8
Furguson Con Pk L1

Garnet Kelly Pk....E11
Glacier Rock Golf Course....H11
Gnome Cave G7
Goat Island Q11
Golden Ray Gardens M6

Goolwa....M11
Goolwa Golf Course....M11
Granite Island....K12
Grasby Mem. Pk....N2
Greenhill Rec. Pk....L2
Greenhills....N6
Greenhills Adventure Pk....K12

Hahndorf....N3
Hallett Cove Con Pk....G4
Happy Valley Resrv....J4
Harndorf Golf Course N3
Harrogate....R2
Hartley R6
Hay Flat E10
Hellenic Park Sports &
  Shooting Complex T3
Heritage Park & Melba's
  Chocolate Factory....P2
Hindmarsh Falls J10
Hindmarsh Island....P12
Hindmarsh Valley J11
Hindmarsh Valley Resv J11
Hope Forest K7
Horsnell Con Pk L2

Ingalalla Waterfalls....E11
Inman Valley....G11
Interstate Rail Terminal J2
Inverbrackie P2
Ironbank....L3

Jervois X8
Jet Boat Course....M11
Jupiter Creek Gold
  Diggings M5

Kangarilla....K5
Kanmantoo R4
Kenneth Sterling
  Con Pk....M1,M2
Kia Marina....X1
King Beach J13
King Head....J13
Kuitpo Colony....L8
Kuitpo Forest Information
  Centre L6
Kuitpo Forest ..L5,L6, L7,L9,M5
Kyeema Con Pk....L7

Lady Bay....D10
Lake Albert Golf Course....V15
Lakeside Leisure Pk....H5
Lands End....A13
Langhorne Creek R8
Lashmar Con Pk A16
Lenswood....N1
Lenswood Agricultural
  Research Station N2
Littlehampton N4
Lobethal....P1
Long Flat....V5
Long Island....Q12
Long Point T15
Longwood....M4
Low Point W10

Macclesfield....N6
Malcom Point....T11
Malinong....X11
Mannum V2
Maranatha Christian Camp....T2
Marino Con Pk....H3
Mark Oliphant Con Pk....L3
Mark Point S14
McCracken Country Club K12
Mclaren Flat....J6
Mclaren Vale....J6
Meadows M6
Middleton....L11
Milang....Q10
Minarto Quary....R6
Misty Lavender Farm M10
Moana Sands Con Pk. G6
Mobilong Prison....U5
Monarto S4
Monarto Con Pk....S6
Monarto Equestrian Centre ...S4
Monarto Shooting Complex ..T5
Monarto South....T5
Monarto Zoological Pk....T5
Montacute....M1
Montacute Con Pk....M1
Montarra....J7
Monteith W6
Monteith R.S....W7
Morialta Con Pk L1
Morgan Beach....A13
Mosquito Point....U9
Mt Barker....P4
Mt Barker Junction R.S....P3

Mt Barker Golf Course P4
Mt Barker Summit P4
Mt Bold Reservoir....L5
Mt Compass....J9
Mt Compass Wetlands
  Boardwalk....K9
Mt Crawford Forest....N1
Mt Magnificent Con Pk K8
Mt Magnifcent Farm....L8
Mt Torrens Q1
Mud Island....R12
Mud Islands Game Res. Q12
Mundoo Island....P12
Murray Bridge....U5
Murray Bridge Golf Course ...V5
Mylor M3
Mylor Rec. Centre M3
Mypolonga....W4
Myponga....G9
Myponga Beach....F9
Myponga Con. Pk. G10
Myponga Resrv....G9

Nairne P3
Nangawooka Flora Res K11
Nangkita....L8
Narrung....T12
Newland Head....H14
Newland Head Con Pk H13
Newmans Horseradish
  Farm & Factory....R8
Nixon Skinner Con Pk. F10
Noa-No Landing....W1
Noonameena Community ...U16
Normanville D10
Norton Summit M1
Nurra-Nurra U12
Nurragi Con Pk P9

O'Halloran Hill Rec. Pk J3
Oakbank....N2
Oakbank Golf Course N3
Oakbank Racecourse N2
Ochre Point....G6
Old Days & Old Ways
  Museum W1
Old Noarlunga....H6
Old Tailem Town X7
Onkaparinga Enterprise
  Centre P1
Onkaparinga River Nat. Pk J5
Onkaparinga River Rec. Pk...H5

Pallamana U4
Parawa E12
Parawa Rec. Area....E12
Paris Creek N6
Parsons Beach....G13
Pelican Point....R13
Pellaring Flat X1
Piccadilly....M2
Placid Estates....X8
Platform One Heritage
  Farm Railway P3
Point Mcleay S12
Point Sturt R11
Polana Deer Farm Pk K9
Poltalloch....V11
Pomanda Point V10
Pompoota W3
Ponde W2
Porpoise Head C14
Port Elliot L12
Port Willunga....G7
Prospect Hill M6
Protea World J8
Pullen Island Cons. Pk L12
Puzzle Park &
  Butterfly House....V6

Rabila R.S. V5
Rapid Bay....C11
Rapid Head B11
Rat Island Q12
Raukkan Community....S11
Red Creek Q6
Reedy Island No. 2 ....R12
Reedy Point U13
Robinson Point....G6
Robs Point....V16
Rockleigh....S2
Rosebank Bait & Fly
  Fishing J8
Rosetta Head....J13
Rumply Point....U14

Salt Lagoon Con Pk. R13
Scott Con. Pk L10
Scott Creek....L4
Scott Creek Con Park....L4
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Second Valley C11
Second Valley Forest B12,
  ....D12,E11,E12,F12,G11,G12
Sellicks Beach F8
Sellicks Hill H8
Shepherds Hill Rec. Pk. J3
Silver Sands....G8
Snapper Point....A15
South Lakes Golf Course L12
Spring Mount Con. Pk. H10
Steam Ranger K12,N9,P5,P7
Stirling L3
Strathalbyn N7
Strathalbyn Golf Course....N8
Sturt Gorge Rec. Pk J3
Summerfield....U1
Summertown L2
Swanport W6
Swanport Bridge V5

Tailem Bend Y7
Tailem Bend Forest Res. X8
Tailem Bend Golf Course....Y8
Talbots Reserve....T2
Talisker Con Pk. C13
Talyala Emu Farm V4
Tauwitchere Island....R13
Tepko....U2
The Almada Mine L4
The Avenues Picnic Area....L6
The Bluff....J13
The Cedars....N3
The Knoll Con Pk. L3
The Pages Con Pk D16
Thorndon Park Res L1
Thornley's Barn Site T12
Tolderol Game Reserve T9
Tolderol Point....T9
Tooperang L9
Tooperang Trout Farm....L9
Toora Res. W4
Torrens Vale F11
Totness Rec. Pk....N4
Tunkalilla Beach E13
Tunk Head F13

Unclad Beach....G7
Uraidla....M2
Urimbirra Wildlife
  Sanctuary K11

Verdun M3
Victor Harbor K12
Victor Harbor Golf Course...J12

Waitpinga....H13
Waitpinga Beach....H13
Waitpinga Con Pk....E13
Wall....W2
Waltowa....X14
Waterfall Reserve U2
Wattle Flat F10
Wellington....W9
Wellington East....X9
West Is. Con Pk. J13,K12
Wild Rose Minature
  Village....K11
Willow Creek F12
Willunga J7
Willunga Golf Course J7
Willunga Hill J8
Wirrina Cove Golf Couse D11
Wirrina Reservoir D11
Wistow....P5
Woodchester Q6
Woods Lane Res....W3
Woods Point W7
Woodside....P2
Woodside Army Camp P2
Wright Island....J13

Yankalilla F10
Yankalilla Golf Course E10
Yaroona....K5
Younghusband Y1
Yulte Con. Pk....G10
Yundi....K8

Zadows Landing....V2

BUSHFIRES
Motorists are advised that Total Fire Protection exists in certain council areas during the bushfire season. Enquiries should be made through the Country Fire Service Headquarters, Local Councils or the Department of Environment, Heritage and Aboriginal Affairs before lighting fires in the open.

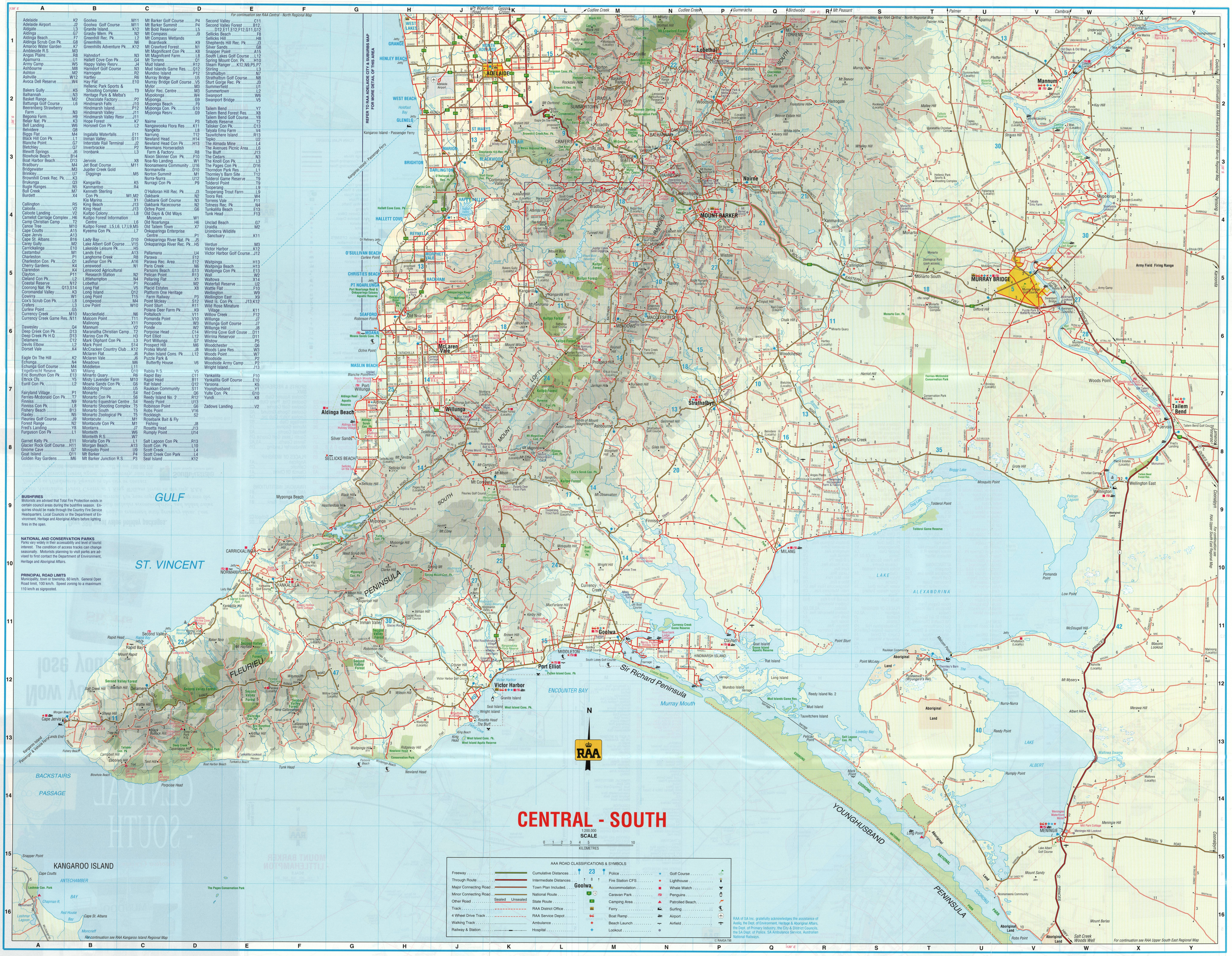
NATIONAL AND CONSERVATION PARKS
Parks vary widely in their accessability and level of tourist interest. The condition of access tracks can change seasonally. Motorists planning to visit parks are advised to first contact the Department of Environment, Heritage and Aboriginal Affairs.

PRINCIPAL ROAD LIMITS
Municipality, town or township, 60 km/h. General Open Road limit, 100 km/h. Speed zoning to a maximum 110 km/h as signposted.

REFER TO RAA ADELAIDE CITY & SUBURBS MAP FOR MORE DETAIL OF THIS AREA

For continuation see RAA Riverland and Central Murray Regional Map

For continuation see RAA Upper South East Regional Map



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1:200,000
SCALE
0 1 2 3 4 5 10
KILOMETRES

AAA ROAD CLASSIFICATIONS & SYMBOLS

Freeway	━	Cumulative Distances	23	Police	★	Golf Course	⛳
Through Route	━	Intermediate Distances	8	Fire Station CFS	★	Lighthouse	
Major Connecting Road	━	Town Plan Included.	Goolwa	Accommodation	■	Whale Watch	
Minor Connecting Road	━	National Route	A1 1	Caravan Park		Penguins	
Other Road	Sealed Unsealed	State Route	A1	Camping Area	▲	Patrolled Beach.	
Track	- - -	RAA District Office	RAA	Ferry	F	Surfing	
4 Wheel Drive Track	- - -	RAA Service Depot		Boat Ramp		Airport	
Walking Track	-----	Ambulance	✚	Beach Launch		Airfield	
Railway & Station		Hospital	✚	Lookout	✻		

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RAA of SA Inc. gratefully acknowledges the assistance of Auslig, the Dept. of Environment, Heritage & Aboriginal Affairs, the Dept. of Primary Industry, the City & District Councils, the SA Dept. of Police, SA Ambulance Service, Australian National Railways.

For continuation see RAA Kangaroo Island Regional Map

For continuation see RAA Upper South East Regional Map

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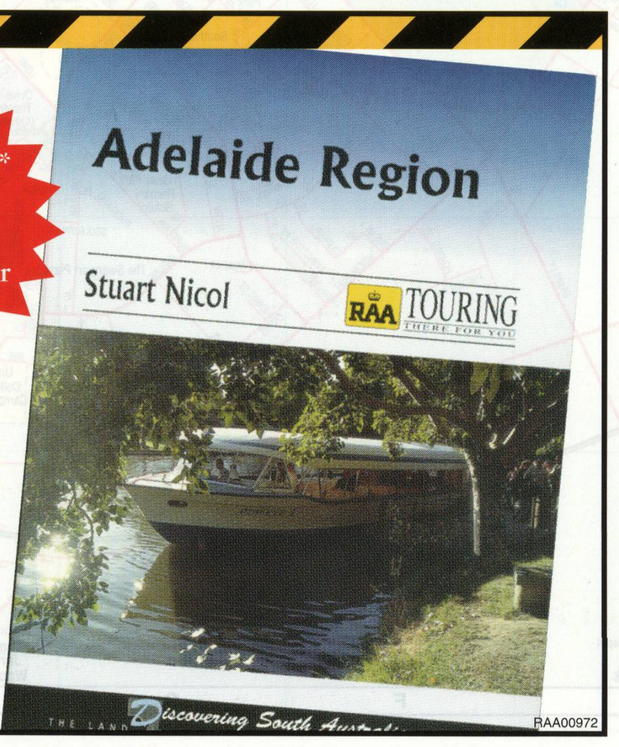

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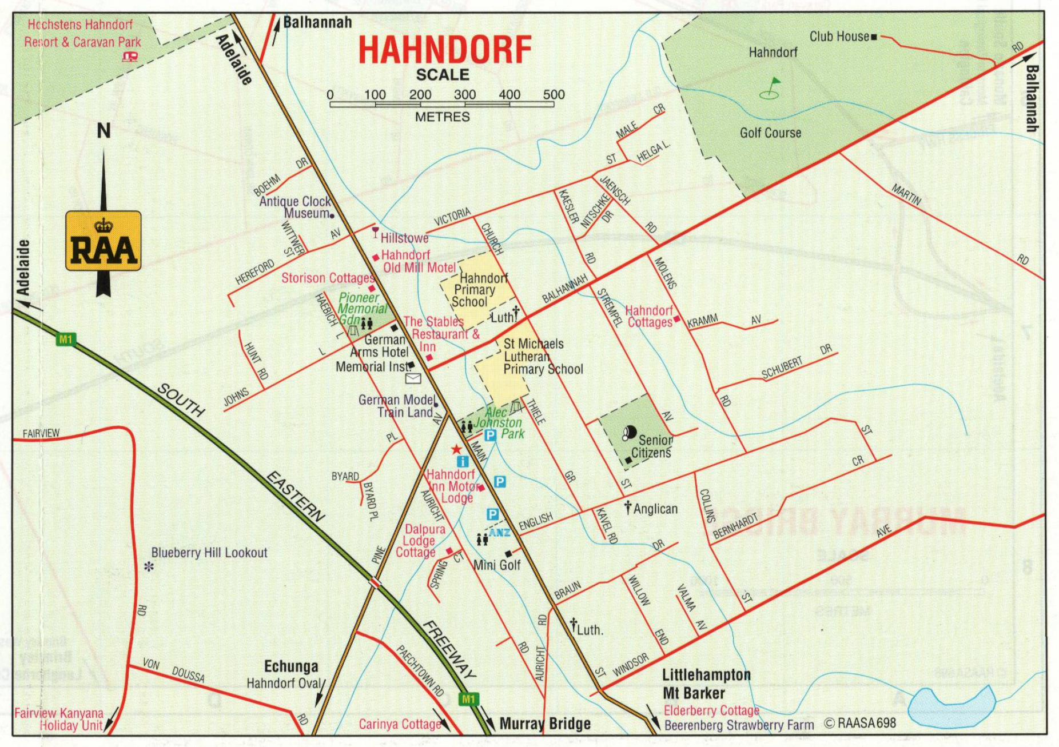
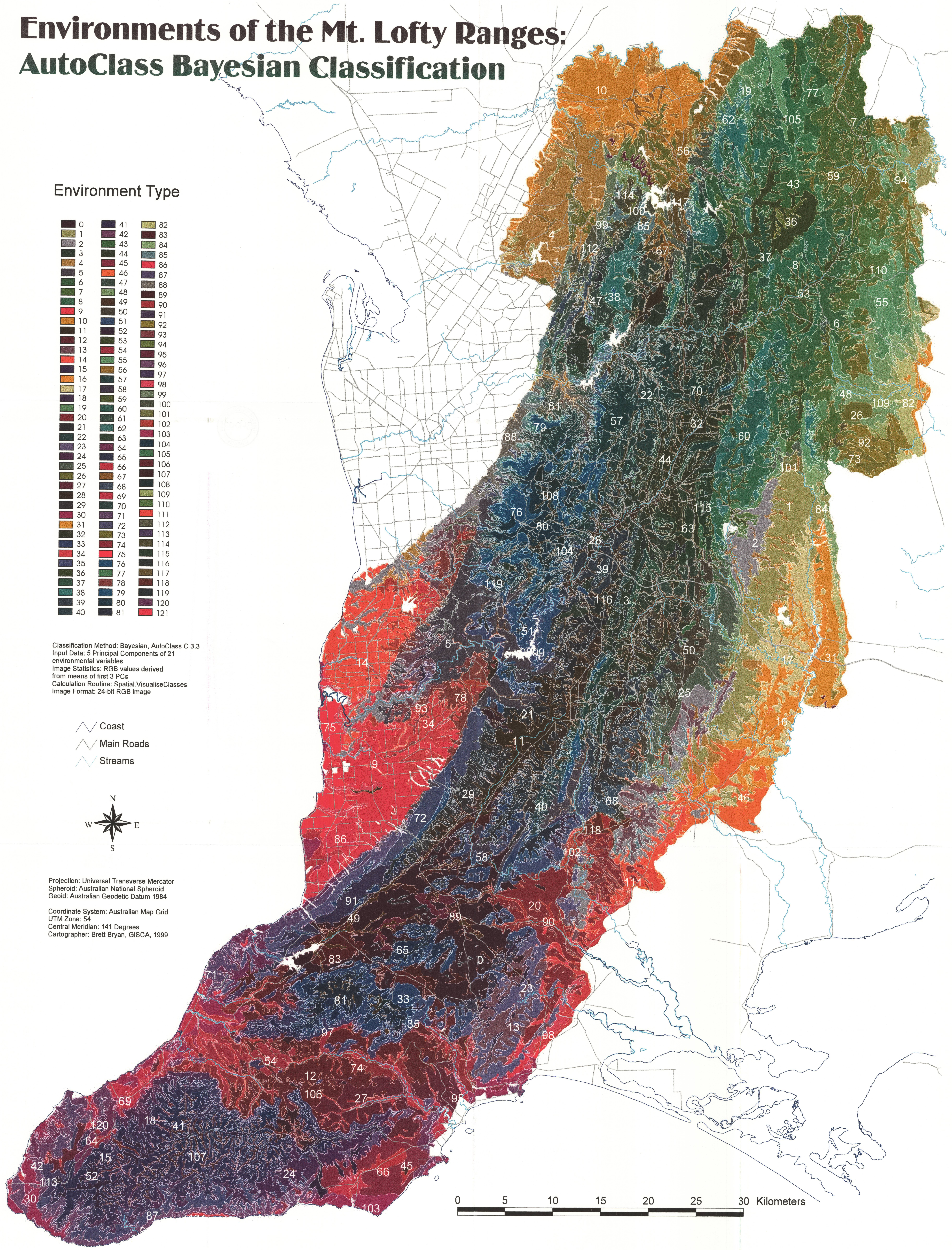


Environments of the Mt. Lofty Ranges: AutoClass Bayesian Classification



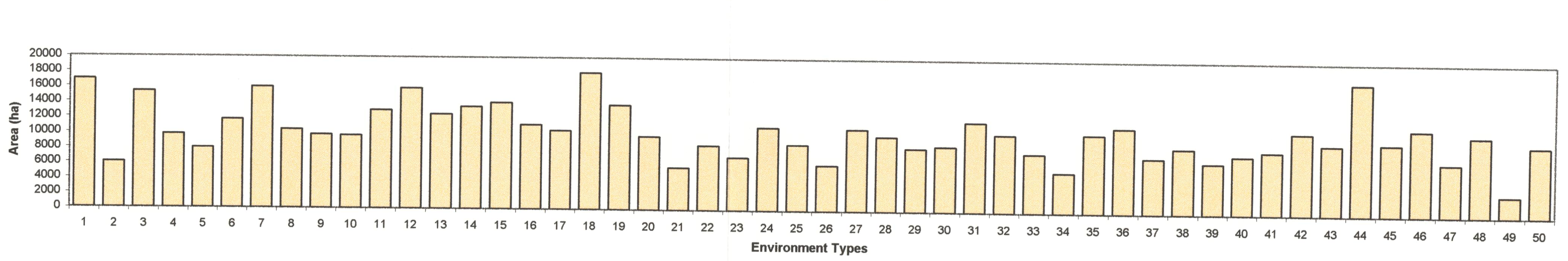
Classification Method: Bayesian, AutoClass C 3.3
Input Data: 5 Principal Components of 21 environmental variables
Image Statistics: RGB values derived from means of first 3 PCs
Calculation Routine: Spatial.VisualiseClasses
Image Format: 24-bit RGB image

Projection: Universal Transverse Mercator
Spheroid: Australian National Spheroid
Geoid: Australian Geodetic Datum 1984

Coordinate System: Australian Map Grid
UTM Zone: 54
Central Meridian: 141 Degrees
Cartographer: Brett Bryan, GISCA, 1999

Characterisation of the 50 Environment Types of the Mt. Lofty Ranges:

Identified by ISOcluster Analysis



		Mean Annual Temperature					Max. Temperature Warmest Period					Min. Temperature Coldest Period					Temp. Dryest Quarter					Temp. Wettest Quarter				
Class Number	Area (ha)	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation
1	16965.50	13.1	14.6	1.5	13.9	0.26	26.2	27.8	1.6	27.1	0.30	3.8	5.9	2.1	5.0	0.38	18.3	19.6	1.3	19.0	0.23	8.2	10.1	1.9	9.2	0.32
2	6066.25	12.1	14.0	1.9	13.2	0.32	26.4	27.7	1.3	27.1	0.19	2.5	4.6	2.1	3.7	0.42	18.1	19.2	1.1	18.7	0.19	7.2	9.6	2.4	8.1	0.41
3	15415.25	13.1	14.1	1.0	13.6	0.15	27.2	28.1	0.9	27.7	0.12	3.1	4.6	1.5	3.7	0.26	18.8	19.5	0.7	19.1	0.09	7.6	9.0	1.4	8.3	0.23
4	9764.75	12.6	13.6	1.0	13.2	0.21	26.7	27.3	0.6	27.1	0.12	2.8	4.3	1.5	3.6	0.30	18.3	18.9	0.6	18.7	0.12	7.3	8.7	1.4	8.0	0.31
5	7986.25	12.8	14.1	1.3	13.6	0.19	26.7	27.9	1.2	27.4	0.18	3.2	5.0	1.8	4.0	0.24	18.4	19.5	1.1	19.0	0.15	7.5	9.3	1.8	8.5	0.23
6	11736.00	13.1	14.5	1.4	13.7	0.25	26.0	28.1	2.1	26.9	0.44	3.7	5.9	2.2	4.8	0.39	18.2	19.7	1.5	18.8	0.28	8.0	10.4	2.4	9.0	0.31
7	16004.00	13.8	14.8	1.0	14.3	0.20	26.0	27.7	1.7	27.0	0.25	5.0	6.3	1.3	5.7	0.21	18.3	19.8	1.5	19.2	0.23	9.1	10.9	1.8	9.7	0.20
8	10429.50	13.3	14.8	1.5	14.1	0.24	26.4	28.3	1.9	27.4	0.28	3.8	5.9	2.1	5.1	0.42	18.4	20.0	1.6	19.2	0.20	8.3	10.6	2.3	9.3	0.33
9	9769.75	13.1	14.3	1.2	13.6	0.17	27.1	28.2	1.1	27.7	0.16	3.1	5.0	1.9	3.8	0.24	18.7	19.6	0.9	19.1	0.13	7.6	9.3	1.7	8.4	0.22
10	9661.50	13.5	14.6	1.1	14.0	0.22	27.0	28.4	1.4	27.6	0.21	3.9	5.6	1.7	4.7	0.30	18.8	19.9	1.1	19.2	0.18	8.4	9.8	1.4	9.1	0.25
11	13003.25	13.0	14.3	1.3	13.6	0.26	26.8	28.0	1.2	27.5	0.24	2.9	5.0	2.1	4.0	0.36	18.5	19.6	1.1	19.0	0.20	7.4	9.9	2.5	8.5	0.34
12	15910.25	13.1	14.0	0.9	13.6	0.16	26.7	27.8	1.1	27.3	0.20	3.3	4.7	1.4	4.0	0.27	18.4	19.3	0.9	18.9	0.14	7.8	9.7	1.9	8.5	0.22
13	12526.00	13.5	14.6	1.1	14.0	0.18	26.5	28.3	1.8	27.6	0.24	3.7	5.5	1.8	4.7	0.33	18.5	19.8	1.3	19.2	0.17	8.3	10.3	2.0	9.3	0.39
14	13514.25	13.0	13.8	0.8	13.4	0.17	27.1	27.9	0.8	27.5	0.16	2.9	4.5	1.6	3.5	0.25	18.6	19.3	0.7	18.9	0.13	7.4	8.9	1.5	8.1	0.23
15	14085.25	13.3	14.3	1.0	13.8	0.20	27.5	28.6	1.1	28.0	0.20	3.3	4.7	1.4	3.9	0.27	19.0	19.9	0.9	19.4	0.16	8.0	9.5	1.5	8.6	0.26
16	11195.00	13.6	15.0	1.4	14.3	0.23	26.9	28.5	1.6	27.8	0.32	3.9	6.1	2.2	5.0	0.35	18.9	20.2	1.3	19.5	0.24	8.6	11.0	2.4	9.5	0.35
17	10430.00	12.8	14.3	1.5	13.5	0.30	26.9	28.2	1.3	27.6	0.21	2.7	5.0	2.3	3.7	0.43	18.5	19.7	1.2	19.0	0.19	7.2	10.0	2.8	8.3	0.41
18	18052.25	13.5	14.5	1.0	14.0	0.19	25.9	27.1	1.2	26.2	0.18	5.0	6.3	1.3	5.8	0.26	18.2	19.4	1.2	18.7	0.22	8.9	10.8	1.9	9.6	0.24
19	13808.25	13.3	14.8	1.5	14.1	0.26	26.4	28.1	1.7	27.1	0.36	4.1	6.2	2.1	5.3	0.39	18.4	19.7	1.3	19.1	0.25	8.5	10.4	1.9	9.4	0.32
20	9704.00	14.1	15.1	1.0	14.8	0.18	25.4	27.0	1.6	26.4	0.23	5.9	6.9	1.0	6.5	0.15	18.6	19.9	1.3	19.5	0.21	9.8	11.5	1.7	10.5	0.25
21	5649.00	13.1	15.3	2.2	14.2	0.39	26.0	28.6	2.6	27.1	0.67	3.5	6.4	2.9	5.4	0.62	18.3	20.5	2.2	19.2	0.45	8.1	10.8	2.7	9.5	0.47
22	8560.50	13.8	15.6	1.8	14.7	0.25	26.7	29.0	2.3	27.9	0.38	3.9	6.2	2.3	5.5	0.36	19.2	20.9	1.7	19.8	0.30	8.7	11.4	2.7	10.1	0.45
23	7052.00	13.6	15.3	1.7	14.6	0.28	26.0	28.3	2.3	27.1	0.48	4.8	6.6	1.8	6.0	0.22	18.3	20.4	2.1	19.5	0.35	9.1	11.3	2.2	10.1	0.29
24	11003.75	13.3	14.6	1.3	13.9	0.24	27.4	28.6	1.2	28.0	0.21	3.2	5.0	1.8	4.1	0.31	18.9	20.0	1.1	19.4	0.18	7.8	9.6	1.8	8.7	0.33
25	8765.25	14.6	15.6	1.0	15.1	0.20	26.2	28.1	1.9	27.4	0.29	5.6	6.9	1.3	6.2	0.23	19.5	20.8	1.3	20.0	0.17	9.8	11.7	1.9	10.5	0.30
26	6105.50	13.5	15.3	1.8	14.3	0.36	27.6	29.1	1.5	28.3	0.25	3.4	5.9	2.5	4.5	0.53	19.1	20.6	1.5	19.7	0.28	8.1	10.3	2.2	9.2	0.49
27	10874.75	13.8	15.3	1.5	14.5	0.23	25.5	27.1	1.6	26.3	0.28	5.6	7.1	1.5	6.3	0.20	18.3	20.0	1.7	19.2	0.31	9.4	11.7	2.3	10.4	0.43
28	9929.25	13.8	15.6	1.8	14.7	0.26	26.1	29.4	3.3	28.1	0.44	3.7	6.7	3.0	5.4	0.38	19.2	21.1	1.9	19.9	0.31	8.4	11.3	2.9	9.8	0.32
29	8364.75	14.0	16.1	2.1	14.6	0.30	27.9	29.8	1.9	28.5	0.28	3.9	6.2	2.3	4.8	0.34	19.4	21.5	2.1	19.9	0.30	8.6	11.7	3.1	9.7	0.39
30	8691.00	13.8	15.8	2.0	14.7	0.37	27.7	29.4	1.7	28.5	0.33	3.7	6.1	2.4	4.9	0.40	19.2	21.2	2.0	20.0	0.36	8.4	11.5	3.1	9.7	0.37
31	11916.75	14.1	15.5	1.4	15.0	0.20	24.6	26.8	2.2	26.0	0.35	6.1	7.5	1.4	6.8	0.23	18.7	20.0	1.3	19.6	0.18	9.9	12.1	2.2	10.9	0.44
32	10329.00	13.6	15.5	1.9	14.6	0.31	27.3	28.9	1.6	27.9	0.22	3.7	6.1	2.4	5.3	0.42	18.9	20.7	1.8	19.7	0.27	8.5	11.4	2.9	9.8	0.52
33	7816.50	13.6	15.3	1.7	14.5	0.26	25.4	27.9	2.5	26.6	0.56	4.8	7.0	2.2	6.2	0.36	18.2	20.0	1.8	19.2	0.38	9.0	11.6	2.6	10.4	0.42
34	5374.00	14.5	15.6	1.1	15.0	0.19	23.8	26.2	2.4	24.8	0.58	6.4	8.1	1.7	7.3	0.35	18.8	19.8	1.0	19.1	0.20	10.4	12.5	2.1	11.3	0.51
35	10419.00	13.5	15.1	1.6	14.4	0.30	25.8	28.0	2.2	27.0	0.38	3.8	6.6	2.8	5.7	0.40	18.4	20.1	1.7	19.3	0.32	8.3	11.3	3.0	10.0	0.56
36	11327.00	14.8	16.0	1.2	15.4	0.18	25.9	28.8	2.9	27.5	0.49	5.7	7.1	1.4	6.4	0.24	19.7	21.0	1.3	20.3	0.25	10.1	12.0	1.9	11.2	0.41
37	7360.00	14.8	16.2	1.4	15.4	0.26	23.9	27.5	3.6	25.3	0.61	6.6	8.1	1.5	7.4	0.24	18.9	21.0	2.1	19.6	0.33	10.8	12.5	1.7	11.8	0.45
38	8684.00	14.6	15.5	0.9	15.1	0.14	24.5	26.6	2.1	26.0	0.32	6.5	7.5	1.0	6.8	0.18	18.9	20.0	1.1	19.7	0.14	10.5	12.0	1.5	11.0	0.33
39	6782.50	14.5	15.8	1.3	15.1	0.20	26.0	28.7	2.7	27.6	0.51	5.4	6.9	1.5	6.2	0.26	19.6	21.1	1.5	20.1	0.27	9.7	11.8	2.1	10.6	0.40
40	7717.00	14.5	16.1	1.6	15.2	0.33	28.2	30.0	1.8	29.0	0.40	4.9	6.0	1.1	5.4	0.23	19.7	21.7	2.0	20.6	0.39	9.6	10.9	1.3	10.3	0.21
41	8341.75	14.3	15.6	1.3	15.0	0.18	26.5	28.6	2.1	27.7	0.32	5.2	6.7	1.5	6.1	0.20	19.2	20.9	1.7	20.1	0.22	9.8	11.7	1.9	10.7	0.44
42	10799.75	14.1	15.8	1.7	14.9	0.25	28.0	29.7	1.7	28.5	0.25	4.2	6.2	2.0	5.4	0.34	19.5	21.4	1.9	20.2	0.25	9.0	10.7	1.7	10.1	0.31
43	9292.00	14.1	15.8	1.7	15.0	0.27	24.1	27.2	3.1	25.8	0.62	5.9	7.8	1.9	6.8	0.31	18.6	20.2	1.6	19.4	0.36	9.9	12.5	2.6	11.2	0.47
44	17388.50	14.3	16.1	1.8	15.3	0.29	27.9	29.9	2.0	29.1	0.39	4.4	6.1	1.7	5.5	0.24	19.5	21.7	2.2	20.7	0.36	9.2	11.6	2.4	10.2	0.27
45	9463.25	15.1	16.3	1.2	15.6	0.17	27.2	29.0	1.8	28.2	0.26	5.8	7.0	1.2	6.2	0.17	20.2	21.6	1.4	20.7	0.17	10.2	12.2	2.0	10.7	0.27
46	11378.50	15.1	16.2	1.1	15.7	0.18	25.6	28.6	3.0	27.4	0.51	6.0	7.5	1.5	6.8	0.27	19.9	21.4	1.5	20.5	0.22	10.4	12.4	2.0	11.8	0.24
47	6978.25	15.5	16.2	0.7	15.9	0.17	24.9	28.5	3.6	27.2	0.67	6.3	7.8	1.5	7.0	0.25	19.7	21.4	1.7	20.6	0.34	10.8	12.5	1.7	12.1	0.23
48	10563.00	15.0	16.7	1.7	15.9	0.34	28.3	30.6	2.3	29.6	0.57	5.2	6.3	1.1	5.8	0.19	20.2	22.3	2.1	21.3	0.45	10.2	11.9	1.7	10.7	0.21
49	2840.00	15.1	16.3	1.2	15.7	0.27	25.9	29.2	3.3	27.9	0.43	5.6	7.3	1.7	6.6	0.32	19.7	21.6	1.9	20.8	0.26	10.2	12.4	2.2	11.6	0.49
50	9278.75	14.8	16.7	1.9	15.4	0.35	27.6	30.6	3.0	28.9	0.48	4.8	6.5	1.7	5.7	0.31	20.1	22.3	2.2	20.8	0.40	9.6	11.9	2.3	10.6	0.29

	Min. Topographic Temperature					Max. Topographic Temperature					Diurnal Temp. Range					Annual Temp. Range					Mean Annual Rainfall				
Class Number	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation
1	9.14	10.79	1.65	10.0	0.25	14.14	17.16	3.02	15.7	0.83	10.2	11.8	1.6	11.0	0.24	20.6	23.8	3.2	22.2	0.48	786	1011	225	889.7	32.87
2	7.34	9.82	2.48	9.0	0.46	11.83	16.51	4.68	14.7	0.94	11.0	11.8	0.8	11.4	0.12	22.5	24.0	1.5	23.4	0.31	844	1149	305	1017.1	69.50
3	8.47	9.85	1.39	9.3	0.24	13.52	16.47	2.95	15.1	0.80	11.4	12.1	0.7	11.8	0.11	22.9	24.5	1.6	24.0	0.28	626	817	191	723.4	32.18
4	7.87	9.59	1.72	8.9	0.32	12.16	16.34	4.19	14.7	0.89	11.2	11.7	0.5	11.5	0.08	22.9	23.9	1.0	23.5	0.24	891	1148	257	1028.0	68.58
5	8.35	10.07	1.72	9.4	0.21	13.54	16.47	2.93	15.2	0.80	11.1	11.9	0.8	11.6	0.12	22.4	24.1	1.7	23.4	0.23	698	1139	441	848.1	66.29
6	9.00	10.49	1.48	9.8	0.23	14.05	16.91	2.86	15.5	0.80	10.0	11.8	1.8	11.0	0.34	20.1	23.7	3.6	22.1	0.69	769	1057	288	901.3	39.38
7	9.92	11.15	1.24	10.5	0.22	14.78	17.52	2.74	16.3	0.80	9.8	11.1	1.3	10.5	0.16	19.9	22.5	2.6	21.3	0.34	737	910	173	837.4	28.63
8	9.26	10.84	1.58	10.1	0.26	12.77	17.21	4.43	15.8	0.81	10.4	11.8	1.4	11.0	0.29	21.1	23.7	2.6	22.3	0.57	695	1002	307	859.1	41.92
9	8.47	10.12	1.65	9.4	0.21	13.31	16.59	3.29	15.3	0.79	11.3	12.1	0.8	11.8	0.12	22.8	24.5	1.7	23.9	0.25	623	876	253	731.0	44.42
10	9.33	10.51	1.18	9.9	0.19	14.27	16.93	2.66	15.8	0.78	10.7	11.9	1.2	11.3	0.18	21.7	23.9	2.2	22.8	0.33	672	930	258	814.4	42.64
11	8.18	10.03	1.86	9.4	0.30	13.41	16.61	3.19	15.2	0.83	11.0	11.9	0.9	11.6	0.17	22.2	24.4	2.2	23.5	0.38	709	1044	335	838.9	48.20
12	8.73	9.86	1.13	9.4	0.20	11.77	16.56	4.79	15.2	0.84	11.0	11.8	0.8	11.5	0.17	22.2	24.0	1.8	23.3	0.37	772	1058	286	896.6	48.57
13	9.26	10.46	1.21	9.9	0.17	12.37	16.99	4.63	15.7	0.85	10.7	11.8	1.1	11.3	0.25	21.6	23.9	2.3	22.8	0.47	658	967	309	849.2	42.92
14	8.12	9.81	1.69	9.0	0.25	11.64	16.33	4.69	14.8	0.79	11.4	12.0	0.6	11.7	0.11	23.0	24.5	1.5	23.9	0.29	675	875	200	773.8	39.31
15	8.86	10.06	1.20	9.5	0.22	13.92	16.56	2.64	15.4	0.81	11.5	12.1	0.6	11.9	0.14	23.1	24.5	1.4	24.0	0.29	541	759	218	636.9	34.50
16	9.49	11.14	1.65	10.2	0.24	12.93	17.51	4.58	15.8	0.80	10.4	11.9	1.5	11.3	0.28	20.8	24.0	3.2	22.8	0.54	626	891	265	762.0	44.80
17	7.91	10.12	2.22	9.2	0.41	10.82	16.69	5.87	14.9	0.90	11.3	12.0	0.7	11.7	0.13	22.8	24.5	1.7	23.9	0.38	680	941	261	793.6	56.17
18	9.75	10.93	1.17	10.3	0.22	14.33	17.37	3.04	15.9	0.82	9.8	10.6	0.8	10.2	0.16	19.6	21.4	1.8	20.5	0.33	765	906	141	838.5	25.79
19	9.41	11.03	1.62	10.2	0.28	12.76	17.38	4.62	15.6	0.84	10.0	11.7	1.7	10.8	0.29	20.2	23.5	3.3	21.9	0.59	767	981	214	872.9	36.23
20	10.54	11.82	1.28	11.3	0.24	14.53	18.09	3.56	16.8	0.80	9.2	10.5	1.3	9.9	0.19	18.5	21.1	2.6	20.0	0.34	674	829	155	746.7	24.64
21	9.03	11.38	2.34	10.3	0.43	11.61	17.67	6.06	15.9	0.83	9.8	12.0	2.2	10.8	0.55	19.7	24.2	4.5	21.7	1.11	607	1053	446	823.2	50.64
22	9.61	11.42	1.82	10.5	0.31	12.12	17.86	5.74	16.2	0.89	10.2	12.1	1.9	11.1	0.31	20.6	24.4	3.8	22.4	0.62	553	871	318	761.5	49.08
23	9.92	11.75	1.83	10.9	0.30	14.95	17.95	3.01	16.4	0.79	9.6	11.4	1.8	10.4	0.31	19.4	23.1	3.7	21.1	0.61	618	899	281	774.8	48.18
24	8.64	10.24	1.60	9.6	0.25	12.73	16.76	4.03	15.4	0.82	11.3	12.1	0.8	11.8	0.14	22.8	24.5	1.7	23.9	0.28	551	751	200	637.1	40.58
25	10.48	12.18	1.70	11.4	0.31	15.34	18.37	3.03	16.9	0.81	9.8	11.0	1.2	10.5	0.23	19.3	22.2	2.9	21.2	0.48	510	804	294	665.5	59.12
26	9.02	11.38	2.35	10.0	0.39	13.67	17.58	3.91	15.7	0.83	11.0	12.1	1.1	11.8	0.24	22.1	24.4	2.3	23.8	0.46	477	772	295	614.6	56.89
27	10.13	12.13	2.00	11.0	0.28	14.02	18.17	4.15	16.5	0.85	9.1	10.5	1.4	9.9	0.23	18.6	21.2	2.6	20.0	0.41	629	846	217	766.1	32.84
28	9.41	11.76	2.35	10.6	0.34	12.49	17.90	5.40	16.1	0.89	9.6	12.1	2.5	11.2	0.33	19.3	24.4	5.1	22.7	0.69	556	852	296	722.4	57.86
29	9.58	11.77	2.19	10.3	0.30	13.58	18.10	4.52	15.9	0.84	11.2	12.0	0.8	11.7	0.16	22.7	24.2	1.5	23.6	0.32	439	669	230	539.9	38.30
30	9.41	11.58	2.17	10.3	0.33	13.61	17.98	4.37	16.1	0.84	11.0	12.1	1.1	11.7	0.18	22.2	24.4	2.2	23.6	0.35	487	733	246	618.8	55.22
31	10.58	12.29	1.72	11.7	0.26	14.89	18.47	3.58	17.0	0.80	8.6	10.1	1.5	9.5	0.27	17.2	20.5	3.3	19.2	0.55	577	811	234	693.4	37.84
32	9.43	11.42	1.99	10.5	0.38	12.65	17.78	5.13	16.0	0.87	10.8	12.0	1.2	11.2	0.21	21.6	24.3	2.7	22.6	0.44	564	865	301	678.0	46.96
33	9.75	12.01	2.26	10.9	0.36	13.42	18.09	4.67	16.2	0.85	9.1	11.1	2.0	10.1	0.44	18.6	22.5	3.9	20.4	0.84	635	916	281	762.5	46.84
34	11.08	12.47	1.40	11.9	0.26	13.06	18.62	5.56	16.7	0.87	7.9	9.8	1.9	8.6	0.46	15.8	19.8	4.0	17.5	0.91	450	744	294	597.7	65.57
35	9.26	11.71	2.44	10.6	0.38	13.80	18.01	4.21	16.2	0.90	9.5	11.6	2.1	10.6	0.32	19.3	23.5	4.2	21.3	0.65	684	962	278	810.6	49.07
36	10.93	12.32	1.39	11.7	0.29	15.44	18.47	3.03	16.9	0.77	9.7	11.3	1.6	10.4	0.28	18.8	23.0	4.2	21.1	0.69	487	757	270	615.0	55.77
37	11.48	12.47	0.99	12.2	0.21	13.21	18.59	5.38	17.3	0.76	7.9	9.8	1.9	9.0	0.36	15.8	20.5	4.7	17.9	0.78	449	674	225	566.9	42.29
38	11.14	12.38	1.24	11.8	0.21	15.75	18.49	2.75	17.4	0.77	8.8	9.9	1.1	9.5	0.19	17.1	20.1	3.0	19.2	0.48	567	742	175	683.9	32.46
39	10.51	12.18	1.67	11.4	0.28	14.29	18.37	4.08	16.8	0.86	9.7	11.2	1.5	10.6	0.34	19.1	22.6	3.5	21.5	0.73	532	779	247	648.6	45.27
40	10.21	11.91	1.70	11.0	0.32	15.15	18.01	2.85	16.5	0.80	11.1	12.0	0.9	11.7	0.15	22.4	24.2	1.8	23.6	0.40	401	666	265	511.2	57.24
41	10.14	11.94	1.81	11.2	0.26	14.42	18.14	3.72	16.8	0.82	9.9	11.2	1.3	10.7	0.21	19.9	22.5	2.6	21.6	0.45	576	805	229	712.1	51.92
42	9.85	11.81	1.96	10.8	0.36	14.69	17.99	3.30	16.3	0.82	10.8	12.0	1.2	11.4	0.22	21.9	24.3	2.4	23.1	0.47	446	668	222	548.4	39.71
43	10.49	12.47	1.98	11.6	0.34	13.16	18.61	5.45	16.9	0.85	8.0	10.5	2.5	9.3	0.43	16.3	21.2	4.9	19.0	0.89	491	815	324	656.6	54.20
44	9.99	11.64	1.65	11.0	0.28	12.93	17.99	5.06	16.6	0.82	11.0	12.0	1.0	11.6	0.19	22.2	24.3	2.1	23.6	0.43	469	779	310	592.6	48.09
45	11.23	12.27	1.04	11.8	0.18	15.95	18.41	2.46	17.0	0.74	10.0	11.4	1.4	10.9	0.21	20.5	23.0	2.5	22.0	0.39	406	627	221	498.8	46.24
46	11.03	12.44	1.41	11.9	0.22	15.81	18.64	2.83	17.6	0.75	9.1	10.9	1.8	10.0	0.33	18.1	22.1	4.0	20.6	0.75	502	726	224	597.5	37.28
47	11.55	12.47	0.92	12.1	0.18	14.91	18.59	3.68	17.2	0.70	8.7	10.8	2.1	9.8	0.31	17.2	21.8	4.6	20.2	0.90	469	618	149	541.8	22.52
48	10.82	12.11	1.29	11.6	0.22	14.94	18.35	3.41	17.1	0.80	11.0	12.1	1.1	11.6	0.20	22.2	24.5	2.3	23.8	0.57	367	608	241	474.0	47.95
49	10.95	12.45	1.51	11.8	0.28	14.41	18.65	4.24	17.2	0.85	9.5	11.5	2.0	10.4	0.38	18.8	23.3	4.5	21.3	0.67	423	690	267	564.5	45.39
50	10.44	12.25	1.81	11.4	0.36	14.17	18.39	4.23	16.8	0.88	10.6	12.1	1.5	11.5	0.27	21.0	24.6	3.6	23.2	0.60	371	617	246	465.3	40.17

	Rainfall in Dryest Period					Rainfall in Wettest Period					Rainfall Seasonality					Annual Moisture Index					Topog. Moisture Redistribution				
Class Number	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation
1	26	31	5	29.1	0.76	106	153	47	126.6	7.29	48	58	10	51.5	1.85	62	69	7	65.7	0.96	3.3	20.3	17.0	5.8	1.26
2	27	36	9	31.7	1.47	114	182	68	148.2	14.46	49	58	9	52.8	1.72	65	73	8	69.2	1.64	2.6	15.6	13.1	5.1	1.26
3	22	29	7	24.6	0.97	84	120	36	99.9	5.47	47	54	7	50.7	1.41	60	66	6	63.3	1.12	3.1	18.6	15.5	6.1	1.19
4	29	35	6	31.9	1.00	127	184	57	150.5	12.88	50	59	9	52.9	2.29	67	72	5	69.6	1.09	2.6	18.3	15.7	5.5	1.27
5	24	34	10	28.2	1.62	97	181	84	120.7	11.44	47	59	12	52.2	2.09	63	72	9	65.6	1.35	3.3	18.3	15.0	6.6	1.82
6	26	32	6	29.4	1.06	104	152	48	128.9	7.78	48	57	9	52.0	2.05	62	69	7	66.1	1.09	3.1	15.3	12.2	5.7	0.69
7	25	30	5	27.6	0.83	105	146	41	123.0	4.79	49	57	8	52.4	1.23	60	66	6	63.7	1.04	3.2	19.7	16.5	6.1	1.31
8	24	31	7	28.3	1.17	92	153	61	120.8	7.62	46	59	13	51.0	1.71	60	68	8	64.9	1.10	3.4	21.0	17.6	7.7	2.46
9	22	29	7	24.8	1.38	84	127	43	101.7	7.77	46	55	9	51.2	1.54	60	67	7	63.4	1.36	3.5	18.8	15.3	7.6	2.17
10	24	30	6	27.8	1.15	91	149	58	112.8	8.39	47	58	11	50.4	2.36	61	67	6	64.2	0.98	3.9	20.9	17.0	6.9	2.14
11	24	32	8	27.8	1.65	96	148	52	117.4	7.45	47	55	8	51.7	1.92	62	69	7	65.6	1.16	2.4	17.2	14.8	5.6	1.08
12	25	32	7	29.1	1.40	104	151	47	127.1	7.36	48	57	9	52.3	1.55	64	69	5	66.6	0.96	2.5	18.5	15.9	5.6	1.34
13	24	30	6	27.9	1.26	89	146	57	118.6	7.67	47	57	10	51.6	1.85	61	68	7	64.8	0.95	2.7	19.8	17.2	5.7	1.49
14	23	30	7	26.4	1.56	93	126	33	108.1	6.65	47	55	8	51.2	1.15	62	68	6	64.8	1.08	3.4	15.1	11.7	6.0	1.05
15	21	27	6	23.0	1.19	71	106	35	86.0	5.47	44	53	9	48.1	1.27	54	64	10	60.1	1.54	3.8	17.6	13.8	6.2	1.16
16	23	29	6	26.2	1.42	83	124	41	103.3	7.30	45	54	9	49.6	2.52	59	66	7	62.5	1.22	3.2	20.0	16.8	5.9	1.42
17	23	31	8	26.5	1.58	92	134	42	110.2	8.85	47	54	7	51.2	1.59	62	69	7	64.9	1.34	2.5	16.1	13.6	5.4	1.22
18	25	29	4	27.0	0.82	116	139	23	129.6	3.55	52	56	4	55.4	0.78	61	66	5	63.5	0.93	3.1	16.9	13.8	5.7	1.15
19	25	31	6	28.5	0.99	106	160	54	126.0	7.42	48	60	12	52.1	1.79	61	68	7	64.9	1.18	2.5	21.1	18.6	5.6	1.58
20	23	27	4	24.8	0.76	98	127	29	112.9	4.50	52	56	4	53.7	0.73	57	63	6	60.0	0.98	3.3	16.5	13.2	5.9	1.22
21	22	32	10	26.9	1.44	80	154	74	120.2	10.36	47	56	9	52.8	2.32	58	69	11	63.5	1.58	2.8	21.5	18.7	8.4	3.08
22	21	29	8	25.6	1.47	72	128	56	105.8	8.41	45	54	9	49.8	1.61	55	65	10	61.7	1.56	2.4	21.5	19.1	5.8	1.96
23	23	29	6	25.9	1.09	80	134	54	114.0	10.12	44	56	12	52.0	2.35	56	66	10	61.4	1.60	3.2	20.4	17.1	7.4	2.39
24	21	28	7	23.3	1.13	73	104	31	86.0	6.14	43	53	10	47.8	1.70	55	64	9	60.0	1.57	2.8	18.6	15.8	5.8	1.44
25	20	27	7	23.8	1.26	67	114	47	92.4	9.51	43	52	9	48.3	1.59	46	63	17	57.1	3.20	3.7	20.9	17.2	6.2	1.14
26	20	27	7	22.5	1.24	61	105	44	82.3	8.39	40	53	13	47.2	2.65	47	62	15	58.0	2.58	3.5	19.3	15.9	8.1	2.74
27	21	28	7	25.2	1.04	93	131	38	117.2	5.73	51	56	5	54.5	1.04	55	64	9	60.8	1.29	2.8	18.5	15.7	5.8	1.74
28	21	28	7	25.2	1.40	72	123	51	98.6	10.30	42	54	12	48.9	2.50	53	64	11	60.7	1.95	2.5	21.1	18.6	5.8	1.98
29	20	25	5	22.0	1.00	55	90	35	71.0	5.64	36	51	15	43.0	2.49	43	59	16	53.0	3.20	2.9	20.5	17.7	6.1	1.96
30	20	26	6	22.7	1.09	63	101	38	82.4	7.74	39	53	14	47.2	2.91	48	62	14	57.4	2.30	3.0	21.3	18.3	6.1	1.46
31	20	26	6	23.5	1.21	85	124	39	103.9	6.63	50	56	6	52.9	0.90	51	62	11	57.9	1.64	3.5	19.8	16.3	6.9	2.19
32	22	29	7	25.4	0.99	75	118	43	91.0	8.17	42	52	10	46.2	1.63	55	65	10	59.7	1.59	2.7	18.4	15.6	5.7	1.35
33	22	29	7	25.4	1.36	90	134	44	114.2	7.43	49	56	7	53.3	1.96	56	66	10	61.0	1.75	2.6	19.9	17.3	5.5	1.65
34	17	25	8	20.9	1.92	66	112	46	90.3	10.32	48	55	7	52.6	1.04	41	60	19	52.6	4.34	-1.5	19.8	21.3	5.9	2.37
35	23	31	8	26.8	1.41	98	134	36	117.5	7.39	47	56	9	51.9	1.82	58	68	10	62.9	1.79	2.7	16.8	14.1	5.6	1.39
36	19	25	6	22.1	1.03	63	107	44	83.8	8.77	41	52	11	47.4	2.26	44	60	16	53.9	3.83	3.4	21.0	17.6	7.1	2.22
37	17	23	6	20.3	1.58	65	102	37	81.9	7.76	43	55	12	50.2	2.64	41	57	16	50.2	3.46	-1.0	21.7	22.8	7.1	2.67
38	21	25	4	23.4	0.86	79	112	33	101.3	6.07	48	56	8	52.7	0.90	50	60	10	57.4	1.47	3.0	17.4	14.5	6.2	1.44
39	21	27	6	23.6	1.00	69	109	40	89.0	7.72	43	53	10	47.4	2.04	48	62	14	56.6	2.57	2.6	21.6	19.0	5.9	1.96
40	19	24	5	21.3	0.83	47	92	45	64.6	9.08	32	51	19	40.8	5.00	37	59	22	48.0	4.82	3.2	21.2	18.1	7.1	2.19
41	21	27	6	24.2	0.99	78	120	42	98.7	8.20	43	54	11	49.5	1.81	52	63	11	59.2	1.98	2.9	21.6	18.8	6.1	1.55
42	19	25	6	22.7	1.12	54	91	37	69.8	6.03	35	51	16	41.5	2.32	43	59	16	51.8	3.16	3.1	19.9	16.8	6.0	1.60
43	18	27	9	22.3	1.54	66	124	58	98.4	9.21	43	56	13	53.1	1.82	44	63	19	56.3	2.86	-1.0	17.7	18.7	5.7	1.67
44	20	27	7	22.1	1.22	56	108	52	76.6	7.80	35	52	17	45.6	2.61	45	63	18	53.8	3.50	2.5	21.3	18.7	6.2	1.70
45	19	23	4	20.9	0.88	46	84	38	63.0	7.94	32	47	15	39.9	3.03	37	55	18	45.2	4.01	3.7	21.5	17.8	7.0	1.75
46	18	24	6	20.5	1.17	67	103	36	82.8	5.63	44	52	8	48.9	1.76	44	59	15	52.4	2.83	3.6	21.7	18.1	6.8	1.68
47	17	22	5	19.1	0.96	59	87	28	74.6	3.43	39	51	12	47.2	1.62	42	54	12	47.8	2.00	-1.0	21.7	22.8	6.8	1.60
48	18	22	4	20.0	0.76	42	83	41	57.6	7.62	30	47	17	38.9	4.71	33	53	20	42.8	3.86	3.1	21.1	17.9	6.7	1.89
49	18	23	5	20.7	1.17	51	95	44	75.5	7.42	36	50	14	45.5	2.71	38	58	20	49.9	3.69	-1.0	21.7	22.7	6.4	2.51
50	18	23	5	20.7	1.02	43	81	38	56.7	6.41	31	46	15	37.0	3.03	34	55	21	43.2	3.43	2.7	21.5	18.8	6.2	2.16

	Short-Wave Radiation Ratio					Soil Fertility					Soil pH					Soil Salinity					Soil Rockiness					Soil Drainage				
Class Number	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation
1	0.66	1.21	0.54	0.99	0.07	2	3	1	2.0	0.19	2	2	0	2.0	0.00	1	3	2	1.3	0.45	1	4	3	2.6	0.50	1	6	5	1.9	0.37
2	0.34	1.31	0.97	0.96	0.14	2	3	1	2.8	0.41	2	2	0	2.0	0.00	1	1	0	1.0	0.00	3	6	3	5.1	0.79	1	1	0	1.0	0.00
3	0.57	1.25	0.68	0.99	0.04	1	4	3	2.5	0.52	2	3	1	2.0	0.11	1	3	2	1.9	0.37	1	5	4	3.3	0.58	1	3	2	1.9	0.49
4	0.44	1.30	0.87	0.98	0.10	1	2	1	1.1	0.34	2	2	0	2.0	0.00	1	1	0	1.0	0.00	1	4	3	2.9	0.35	1	3	2	1.2	0.41
5	0.74	1.20	0.46	0.99	0.04	1	3	2	1.6	0.56	1	3	2	2.0	0.02	1	3	2	1.9	0.52	1	3	2	1.1	0.31	1	4	3	2.6	0.65
6	0.73	1.23	0.50	0.99	0.05	2	4	2	2.7	0.45	1	2	1	1.1	0.35	1	1	0	1.0	0.00	1	3	2	2.4	0.54	1	4	3	3.1	0.99
7	0.54	1.22	0.68	1.00	0.05	2	4	2	3.0	0.38	1	1	0	1.0	0.00	1	2	1	1.0	0.04	1	3	2	1.1	0.32	1	5	4	2.1	0.51
8	0.34	1.20	0.86	1.00	0.03	2	2	0	2.0	0.00	2	2	0	2.0	0.00	1	3	2	2.8	0.43	1	1	0	1.0	0.00	2	5	3	4.2	0.77
9	0.71	1.15	0.44	1.00	0.02	1	3	2	2.0	0.18	2	3	1	2.4	0.49	1	5	4	3.5	0.62	1	1	0	1.0	0.00	3	5	2	4.0	0.33
10	0.71	1.14	0.43	1.00	0.03	1	3	2	1.9	0.25	2	2	0	2.0	0.00	1	3	2	1.6	0.57	1	2	1	1.3	0.44	1	4	3	2.9	0.32
11	0.57	1.32	0.75	0.99	0.07	2	3	1	3.0	0.17	2	2	0	2.0	0.00	1	2	1	1.0	0.17	1	4	3	2.7	0.48	1	4	3	1.9	0.45
12	0.31	1.31	1.00	0.98	0.10	1	2	1	1.0	0.19	2	2	0	2.0	0.00	1	1	0	1.0	0.00	1	5	4	2.6	0.51	1	4	3	1.5	0.50
13	0.31	1.31	1.00	0.99	0.11	1	2	1	1.0	0.00	2	3	1	2.0	0.18	1	1	0	1.0	0.00	1	5	4	2.6	0.56	1	4	3	1.4	0.50
14	0.28	1.17	0.89	0.99	0.05	2	3	1	2.1	0.31	2	3	1	2.0	0.13	1	3	2	2.0	0.19	3	6	3	4.4	0.51	1	2	1	1.9	0.27
15	0.75	1.16	0.41	1.00	0.04	1	3	2	2.0	0.15	2	3	1	2.1	0.33	1	4	3	2.0	0.16	1	4	3	2.3	0.53	1	2	1	1.3	0.48
16	0.40	1.22	0.82	0.99	0.07	1	4	3	2.5	0.54	1	2	1	2.0	0.02	1	3	2	1.3	0.45	1	5	4	3.1	0.77	1	4	3	1.9	0.38
17	0.24	1.31	1.07	0.97	0.11	2	3	1	3.0	0.02	2	3	1	2.1	0.31	1	2	1	1.3	0.43	4	6	2	5.3	0.60	1	2	1	1.1	0.26
18	0.60	1.24	0.64	0.99	0.07	1	3	2	1.9	0.24	2	2	0	2.0	0.00	1	2	1	1.0	0.02	1	4	3	3.0	0.28	1	4	3	1.6	0.50
19	0.37	1.29	0.92	0.96	0.12	1	3	2	2.5	0.50	2	2	0	2.0	0.00	1	1	0	1.0	0.00	3	6	3	4.8	0.62	1	2	1	1.0	0.19
20	0.45	1.22	0.77	0.99	0.06	2	3	1	2.3	0.47	1	1	0	1.0	0.00	1	2	1	1.6	0.48	1	2	1	1.0	0.21	1	5	4	2.9	0.76
21	0.19	1.28	1.09	0.99	0.04	1	2	1	1.0	0.20	3	3	0	3.0	0.00	1	3	2	2.9	0.31	1	1	0	1.0	0.00	1	6	5	4.3	1.34
22	0.21	1.30	1.09	0.98	0.12	1	3	2	1.1	0.26	2	3	1	2.0	0.03	1	1	0	1.0	0.00	1	5	4	2.8	0.42	1	2	1	1.2	0.42
23	0.66	1.19	0.54	0.99	0.05	1	3	2	2.2	0.39	1	3	2	1.9	0.31	1	3	2	1.9	0.50	1	3	2	1.0	0.02	1	7	6	4.2	0.70
24	0.37	1.25	0.88	0.98	0.08	2	4	2	3.0	0.12	2	3	1	2.3	0.46	1	3	2	1.7	0.45	3	6	3	5.0	0.46	1	2	1	1.1	0.23
25	0.66	1.16	0.50	0.99	0.05	2	4	2	3.2	0.39	1	2	1	1.1	0.34	1	1	0	1.0	0.00	1	3	2	1.3	0.69	1	3	2	1.9	0.35
26	0.45	1.17	0.72	1.00	0.03	1	3	2	2.4	0.48	2	3	1	2.1	0.33	1	4	3	3.6	0.57	1	1	0	1.0	0.00	3	4	1	3.5	0.50
27	0.43	1.27	0.85	0.98	0.11	1	3	2	2.1	0.52	2	3	1	2.0	0.01	1	3	2	1.1	0.51	1	5	4	3.6	0.81	1	6	5	1.3	0.48
28	0.28	1.30	1.02	0.97	0.13	1	4	3	2.5	0.52	1	3	2	2.0	0.12	1	3	2	1.2	0.37	3	6	3	4.9	0.67	1	2	1	1.2	0.41
29	0.32	1.30	0.98	0.98	0.09	2	4	2	2.9	0.30	2	3	1	2.4	0.49	1	3	2	1.5	0.52	4	6	2	5.1	0.45	1	2	1	1.0	0.04
30	0.32	1.23	0.91	1.00	0.05	1	4	3	2.6	0.56	2	3	1	2.2	0.40	1	4	3	1.5	0.53	1	4	3	2.4	1.03	1	4	3	1.6	0.53
31	0.37	1.25	0.88	0.99	0.05	1	3	2	2.1	0.69	1	3	2	2.7	0.45	1	5	4	2.2	0.56	1	3	2	1.2	0.55	1	5	4	3.1	1.00
32	0.26	1.29	1.03	0.97	0.10	1	3	2	1.8	0.40	3	3	0	3.0	0.00	1	3	2	1.3	0.47	2	6	4	4.2	0.84	1	2	1	1.2	0.39
33	0.27	1.30	1.03	0.94	0.14	1	4	3	2.1	0.63	2	4	2	3.0	0.12	1	1	0	1.0	0.00	4	6	2	5.4	0.54	1	2	1	1.0	0.02
34	0.15	1.27	1.12	0.88	0.18	1	5	4	2.9	1.25	2	4	2	3.1	0.31	1	3	2	1.0	0.05	1	7	6	4.7	1.22	1	2	1	1.0	0.02
35	0.49	1.29	0.80	1.00	0.10	1	2	1	1.3	0.47	3	3	0	3.0	0.00	1	2	1	1.0	0.05	1	5	4	3.2	0.66	1	3	2	1.6	0.51
36	0.64	1.20	0.56	0.99	0.03	1	4	3	2.2	0.58	1	4	3	3.0	0.40	1	3	2	1.7	0.60	1	3	2	1.1	0.34	1	6	5	2.6	0.78
37	0.15	1.20	1.05	0.96	0.11	1	5	4	2.2	1.03	2	4	2	3.1	0.32	1	6	5	2.0	1.07	1	4	3	1.0	0.25	1	6	5	2.4	1.11
38	0.64	1.24	0.60	1.00	0.05	2	3	1	2.4	0.49	1	1	0	1.0	0.00	1	2	1	1.6	0.49	1	1	0	1.0	0.00	2	4	2	3.0	0.88
39	0.36	1.30	0.94	0.97	0.11	1	4	3	2.1	0.34	2	3	1	3.0	0.02	1	2	1	1.3	0.45	3	6	3	5.1	0.61	1	3	2	1.0	0.19
40	0.69	1.20	0.51	1.00	0.04	1	4	3	2.6	0.57	2	3	1	2.7	0.46	1	4	3	2.2	0.81	1	5	4	1.1	0.31	1	4	3	2.2	0.90
41	0.46	1.28	0.82	1.00	0.06	1	4	3	1.9	0.67	2	3	1	3.0	0.16	1	3	2	1.2	0.45	1	4	3	2.1	0.92	1	4	3	2.0	0.58
42	0.60	1.26	0.66	0.99	0.07	2	3	1	2.0	0.13	2	4	2	3.0	0.08	1	3	2	1.8	0.43	2	6	4	4.1	1.00	1	2	1	1.0	0.18
43	0.15	1.29	1.14	0.97	0.12	1	2	1	1.3	0.46	2	4	2	3.3	0.52	1	2	1	1.3	0.45	2	6	4	4.1	1.00	1	2	1	1.1	0.23
44	0.22	1.30	1.08	1.00	0.07	1	1	0	1.0	0.00	3	3	0	3.0	0.00	1	3	2	1.3	0.44	1	5	4	2.1	1.03	1	3	2	1.3	0.48
45	0.74	1.17	0.44	0.99	0.02	1	4	3	1.6	0.75	3	4	1	3.0	0.01	1	3	2	1.6	0.53	1	3	2	1.4	0.54	1	3	2	1.4	0.49
46	0.71	1.17	0.46	1.00	0.03	1	1	0	1.0	0.00	3	3	0	3.0	0.00	1	2	1	1.1	0.27	1	2	1	1.0	0.21	1	3	2	1.7	0.60
47	0.26	1.17	0.90	0.98	0.06	1	5	4	1.9	0.33	3	4	1	3.8	0.36	1	3	2	1.9	0.40	1	3	2	1.1	0.31	1	6	5	2.0	0.55
48	0.47	1.25	0.78	1.00	0.04	1	4	3	1.3	0.52	2	4	2	3.1	0.28	1	3	2	1.5	0.63	1	5	4	1.6	0.83	1	3	2	1.1	0.33
49	0.25	1.28	1.03	0.98	0.11	1	2	1	2.0	0.02	3	4	1	3.9	0.34	1	2	1	1.0	0.14	3	6	3	4.3	0.85	1	2	1	1.0	0.03
50	0.43	1.30	0.87	0.98	0.08	1	3	2	2.3	0.48	2	4	2	3.1	0.34	1	2	1	1.3	0.46	3	6	3	5.4	0.55	1	1	0	1.0	0.00

	Principal Component 1					Principal Component 2					Principal Component 3					Principal Component 4					Principal Component 5				
Class Number	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation	Minimum	Maximum	Range	Mean	Standard Deviation
1	610	1430	820	1058	127	371	1076	705	746	89	546	981	435	774	93	609	906	298	823	43	1174	1681	508	1480	73
2	0	975	975	521	191	761	1189	428	950	76	783	1312	529	1151	114	596	948	352	741	86	1240	1568	327	1423	51
3	683	1180	497	947	76	1050	1472	422	1240	77	401	958	557	692	91	355	952	597	655	106	1138	1544	406	1301	64
4	206	807	602	533	115	625	1055	431	858	102	441	952	511	803	70	885	1221	335	1112	69	1364	1673	309	1561	48
5	264	1211	947	896	124	547	1119	572	906	87	207	613	406	395	68	566	1336	770	935	110	1125	1614	489	1397	91
6	457	1250	794	903	119	322	923	601	613	126	401	796	396	645	93	276	761	485	540	116	1303	1698	394	1513	79
7	962	1571	610	1248	105	259	657	398	482	65	344	875	532	579	68	228	655	427	446	71	1497	1772	275	1648	42
8	798	1539	741	1182	121	414	982	568	678	122	93	627	534	307	73	710	910	200	815	28	1100	1502	403	1253	64
9	671	1436	765	1053	99	890	1294	404	1094	67	0	355	355	182	46	534	1179	645	839	113	681	1318	638	1030	146
10	914	1422	507	1143	89	571	1127	556	846	91	263	648	385	440	86	605	1047	442	816	59	1189	1656	467	1435	57
11	466	1150	684	867	126	750	1252	502	1003	88	424	984	561	716	85	544	841	297	633	41	1250	1562	313	1410	48
12	591	1029	437	839	81	699	1133	434	936	84	540	1126	586	732	109	832	1137	304	1045	37	1403	1684	281	1575	43
13	840	1374	534	1111	90	527	1267	740	908	105	400	1125	725	756	118	862	1267	404	1013	42	1383	1768	385	1626	48
14	514	1069	555	797	97	1046	1430	384	1217	70	688	1085	397	846	78	537	826	288	745	60	1141	1408	267	1262	32
15	924	1504	580	1184	103	1121	1542	421	1330	75	269	906	637	560	95	476	929	452	724	72	1085	1608	523	1374	84
16	941	1652	711	1271	113	560	1317	758	1009	113	387	998	611	766	107	301	921	620	649	94	1213	1677	464	1489	69
17	399	1149	750	815	130	1016	1571	555	1257	109	852	1293	441	1077	90	487	783	296	584	57	1076	1534	458	1329	106
18	942	1476	535	1253	107	370	671	301	486	45	653	1185	532	967	64	611	1019	408	809	47	1294	1575	281	1437	44
19	714	1499	784	1111	138	582	1157	575	821	106	891	1352	461	1152	92	506	1029	524	690	105	1366	1633	268	1490	44
20	1308	1875	567	1633	98	189	478	289	318	47	339	840	502	542	101	330	622	293	490	84	1423	1734	311	1567	62
21	745	1884	1139	1385	195	271	1397	1127	673	251	258	605	347	369	47	904	1334	430	1162	57	827	1530	702	1098	141
22	1197	1889	692	1469	118	494	1468	973	939	136	391	1115	723	790	109	600	1182	582	917	56	1515	1872	357	1696	51
23	991	1941	950	1537	139	238	991	753	521	139	229	692	463	410	78	353	1025	671	696	100	964	1778	815	1352	127
24	874	1421	546	1167	112	1163	1675	511	1440	80	645	1261	616	977	87	381	915	534	521	95	1033	1528	495	1269	112
25	1304	2226	922	1752	160	489	971	483	694	96	426	879	453	578	112	0	413	413	286	68	1428	1823	395	1689	82
26	981	1997	1016	1419	170	882	1476	594	1214	114	4	408	405	163	83	370	949	579	627	140	917	1505	588	1148	104
27	1159	2053	894	1573	132	300	770	470	511	91	675	1359	684	1062	137	393	1013	620	710	113	1169	1610	441	1465	73
28	1025	1897	872	1425	141	449	1524	1076	1125	154	632	1336	704	1050	118	369	925	556	586	99	1291	1792	502	1539	93
29	1273	2091	819	1585	133	1271	1815	544	1538	96	753	1254	502	1005	88	258	806	549	460	127	1124	1776	653	1372	113
30	1175	2069	894	1533	127	956	1538	583	1278	103	249	922	673	614	125	221	918	697	584	124	1147	1928	781	1487	103
31	1514	2338	824	1976	142	73	617	544	379	85	337	1034	697	651	122	572	1158	587	797	157	712	1621	909	1196	111
32	1004	1980	976	1547	152	927	1609	682	1211	125	633	1321	688	998	123	640	1162	522	883	95	1137	1681	544	1384	97
33	1004	2040	1036	1592	158	488	1071	583	749	137	1109	1584	475	1368	104	360	1305	945	855	144	1052	1627	575	1299	97
34	1626	2743	1117	2181	224	195	646	451	410	88	993	1743	750	1450	163	57	1118	1062	583	217	835	1484	649	1101	103
35	837	1953	1116	1475	190	419	1161	743	767	126	658	1275	617	970	106	841	1266	424	1073	109	1280	1582	301	1413	60
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37	2091	2782	691	2424	144	0	976	976	370	156	261	1113	852	755	130	258	1064	806	739	185	0	1478	1478	1143	223
38	1699	2218	519	1887	100	103	392	288	250	51	401	760	360	562	98	204	536	332	416	91	1356	1705	349	1555	73
39	1430	2326	896	1874	135	720	1378	658	1083	148	891	1445	554	1202	100	332	957	626	765	79	1161	1626	465	1396	75
40	1618	2383	765	1985	159	1113	1705	592	1415	91	68	943	875	353	115	202	1062	860	584	181	978	1836	858	1408	117
41	1430	2252	822	1833	127	551	1165	614	876	96	331	1122	791	745	147	431	1160	729	887	114	1092	1814	721	1452	108
42	1424	2250	826	1837	130	1144	1806	662	1460	109	528	1242	714	899	141	492	987	495	745	46	1168	1813	645	1377	71
43	1540	2679	1139	2064	184	243	993	750	580	139	905	1657	752	1252	149	579	1271	692	1004	116	856	1558	702	1254	144
44	1384	2249	864	1903	138	1008	1654	646	1379	100	230	1064	835	602	185	897	1155	259	1004	42	1323	1771	448	1615	75
45	1925	2598	673	2294	119	937	1526	589	1253	118	296	887	592	577	81	278	1030	752	793	159	1252	1752	500	1507	50
46	1940	2728	788	2336	135	481	1113	632	775	119	410	876	465	660	75	894	1105	211	991	36	1353	1736	383	1566	69
47	2325	2806	482	2574	99	386	1208	822	843	147	257	1129	872	691	119	320	1164	844	920	47	984	1634	650	1248	89
48	2040	2631	591	2308	108	1213	2002	789	1584	93	221	936	715	494	129	236	995	759	855	122	1138	1911	773	1648	174
49	1904	2753	849	2344	158	786	1527	741	1183	129	872	1429	558	1144	128	626	1020	394	877	80	1149	1637	488	1366	61
50	1750	2580	830	2140	148	1364	2034	671	1690	115	666	1233	567	1074	85	247	954	707	594	117	1194	1846	653	1425	103

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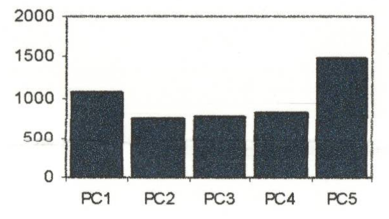

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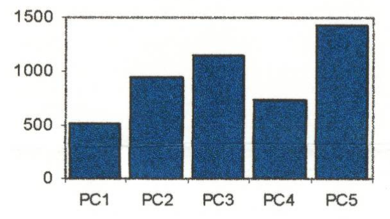

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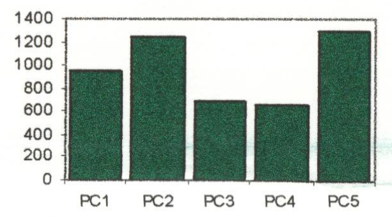

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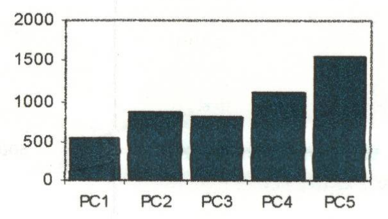

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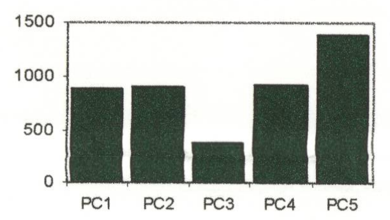

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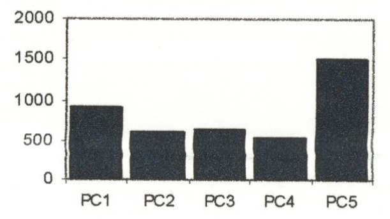

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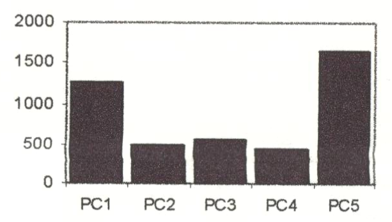

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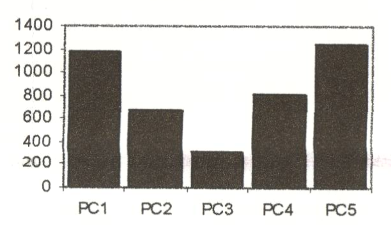

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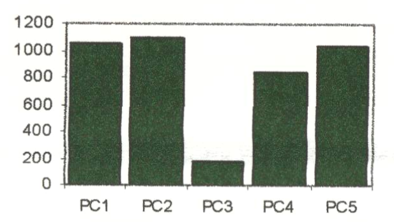

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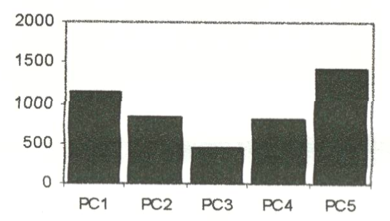

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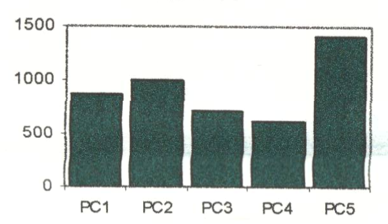

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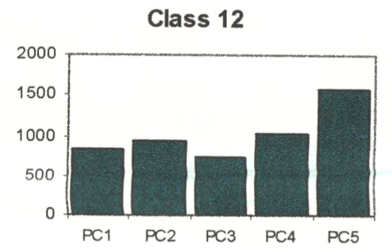

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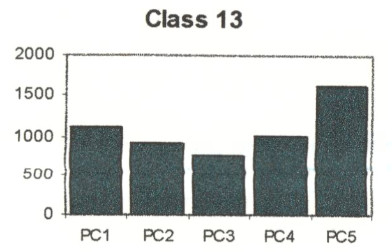

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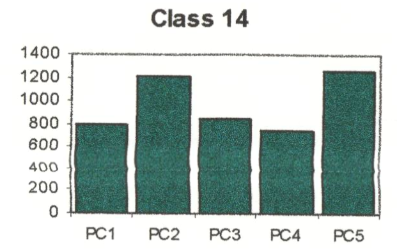

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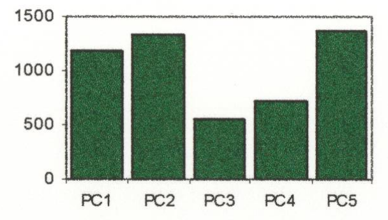

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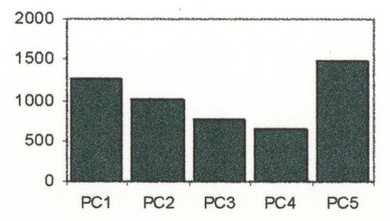

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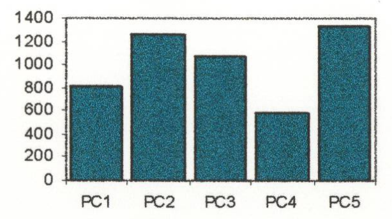

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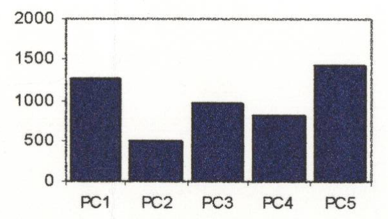

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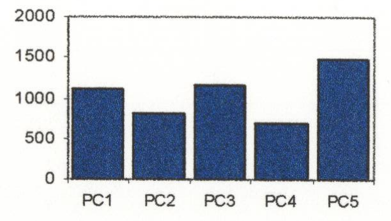

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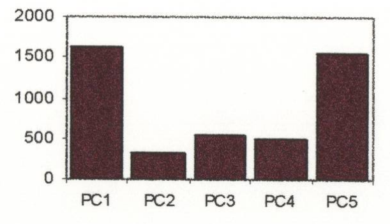

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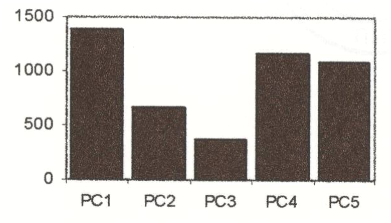

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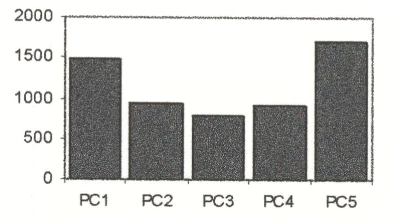

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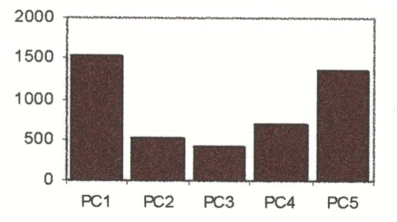

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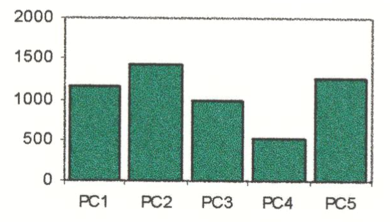

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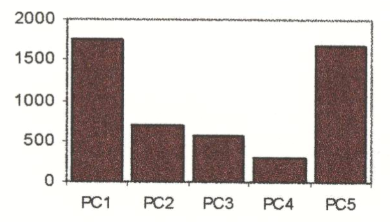

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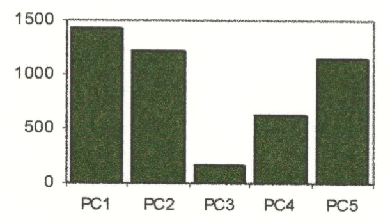

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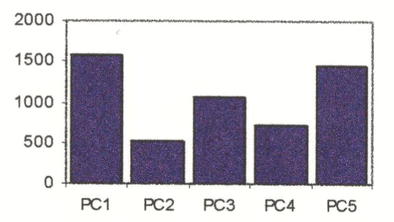

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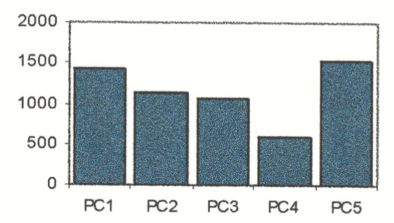

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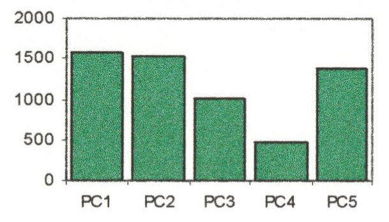

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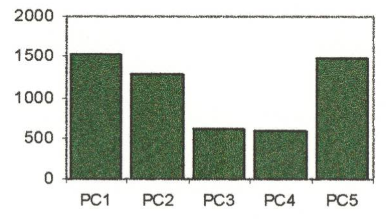

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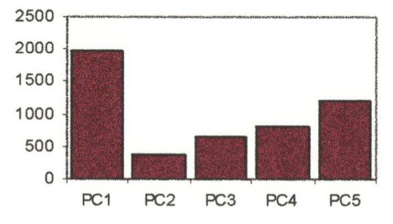

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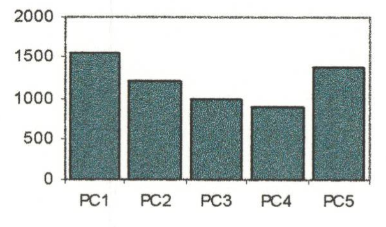

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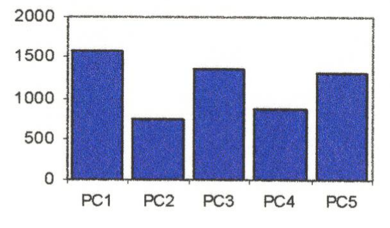

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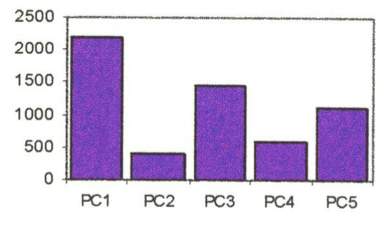

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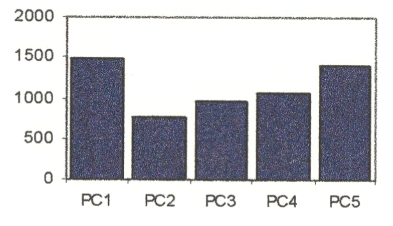

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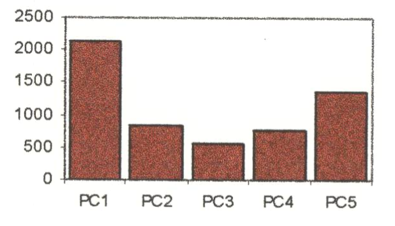

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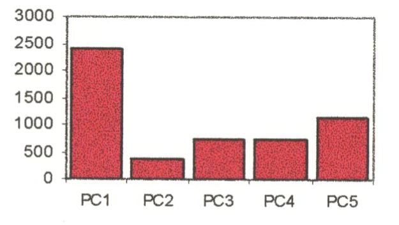

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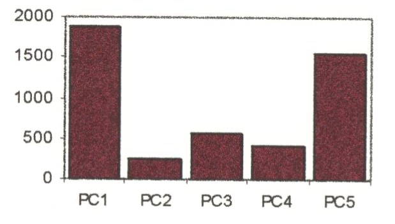

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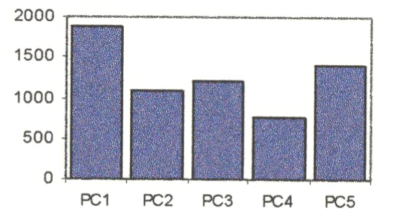

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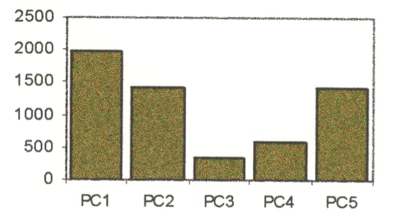

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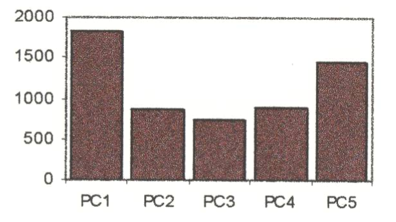

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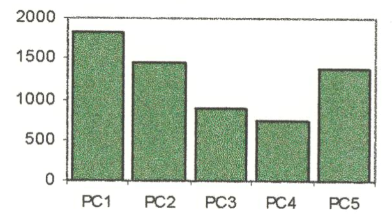

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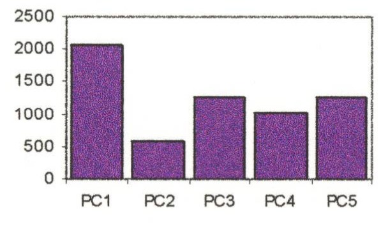

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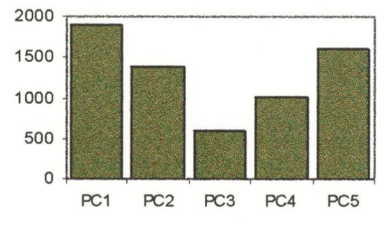

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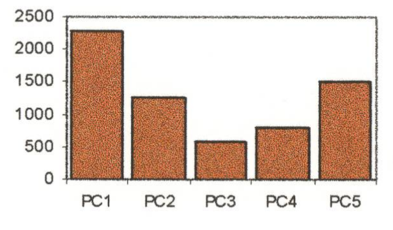

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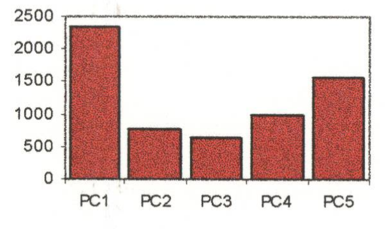

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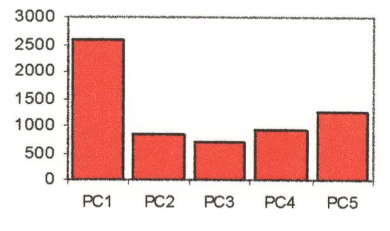

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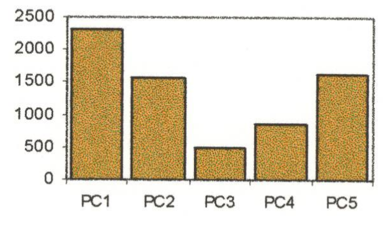

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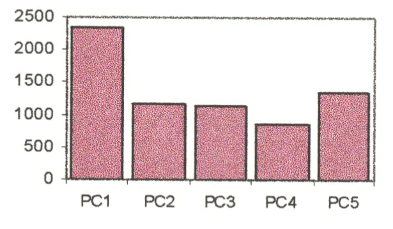

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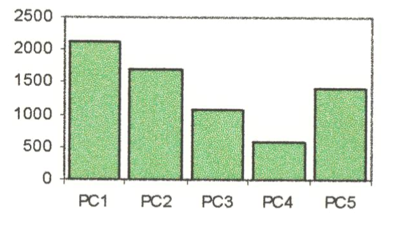
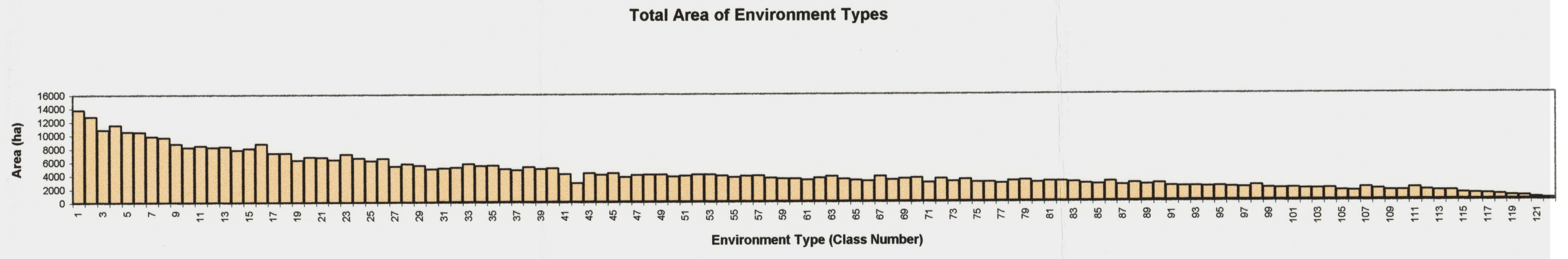
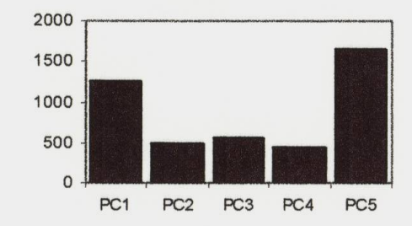


Displayed are class statistics for the 50 environment types identified in the optimal environmental classification of the Mt. Lofty Ranges
Included is information for the 21 environmental variables included in principal components analysis of the physical environmental variation in the study area
Table displays a range of statistics for each environment type or class including minimum, maximum, range, mean, and standard deviation.
Classification was performed using an ISOCluster (Iterative Self-Organising cluster analysis) technique with the first 5 principal components and a maximum likelihood classification
The optimal classification was selected by assessing the homogeneity of classifications at a range of scales from 2 to 150 classes
The 50-group classification optimally represents maximum homogeneity and minimum complexity
Values for each principal component are graphed for each environment type
The colour of each graph was created by using the value of the first three principal components as Red, Green, and Blue values in a Visual Basic script in MS Excel 97
Hence, the more similar the colour of the graph, the more similar the environment types

Characterisation of the 122 Environment Types of the Mt. Lofty Ranges: Identified by AutoClass Bayesian Classification


Total Area of Environment Types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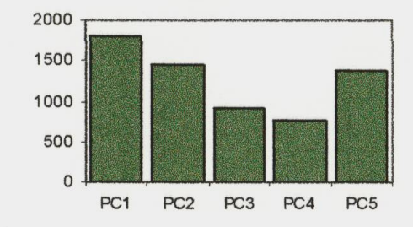
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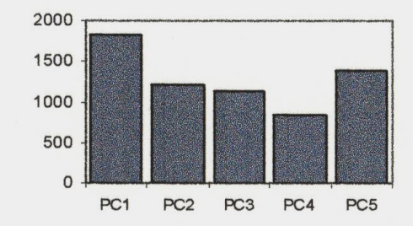
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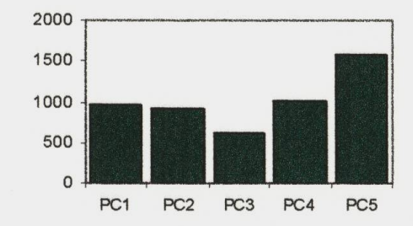
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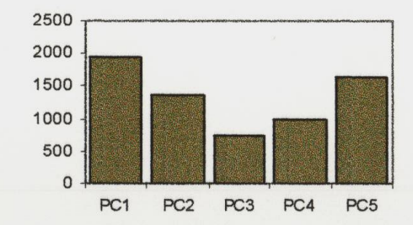
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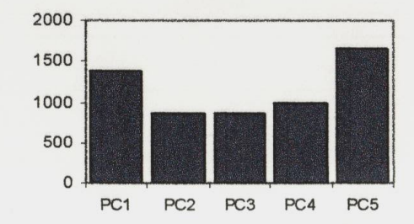
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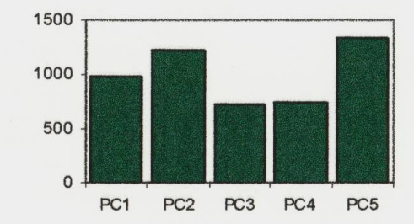
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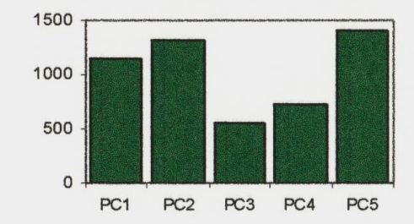
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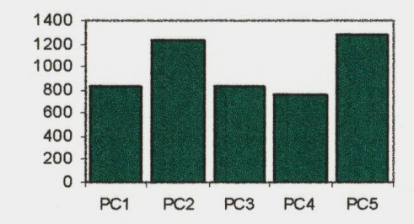
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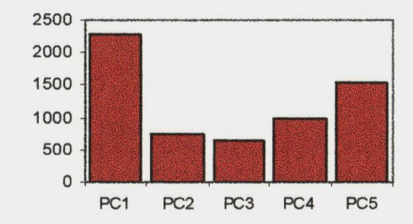
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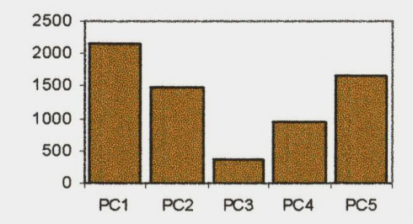
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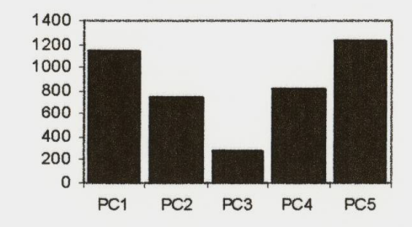
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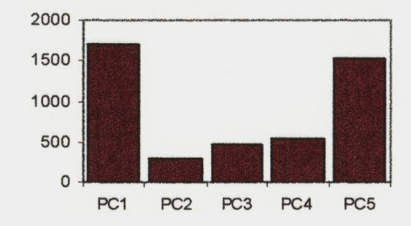
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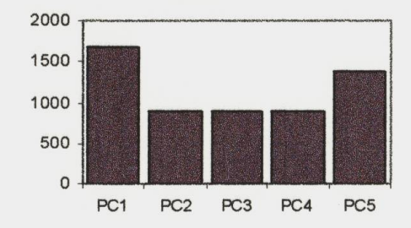
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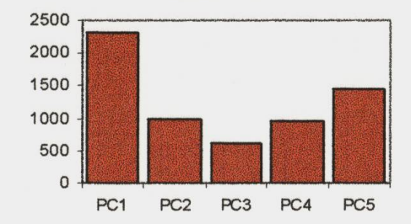
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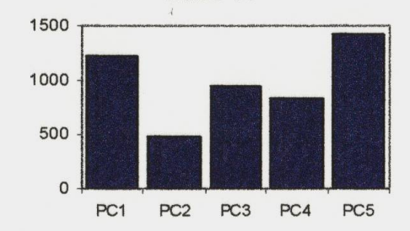
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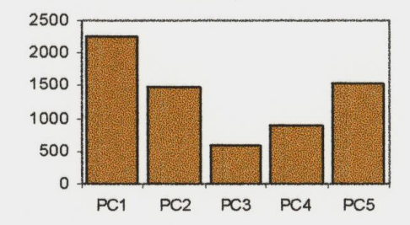
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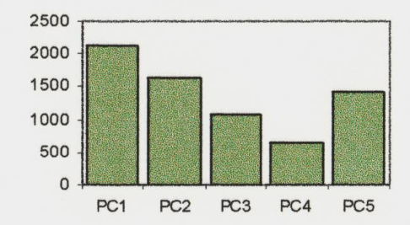
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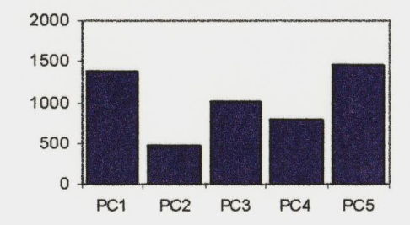
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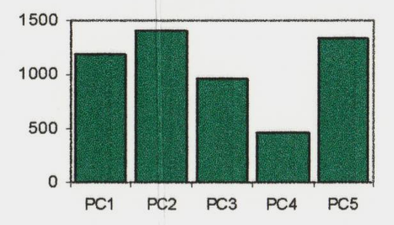
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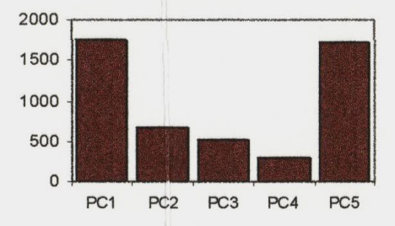
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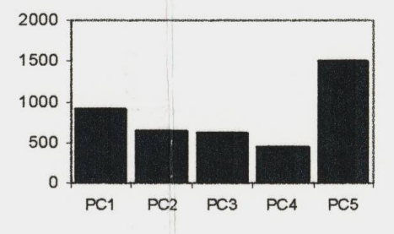
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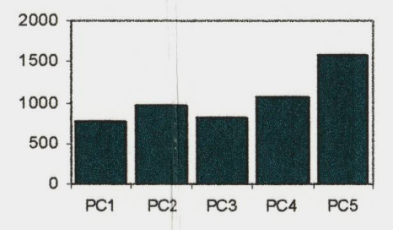
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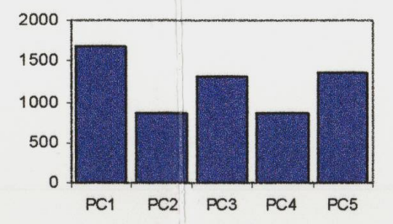
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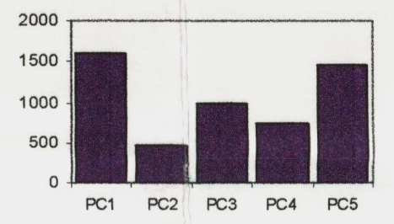
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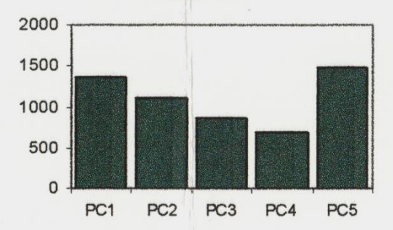
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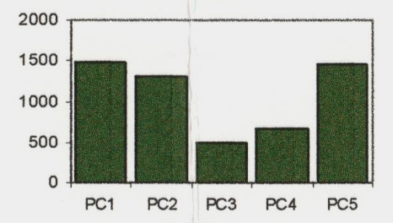
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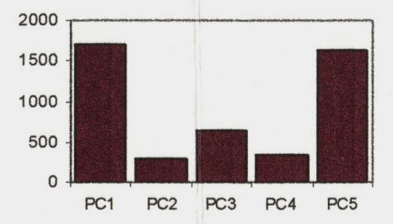
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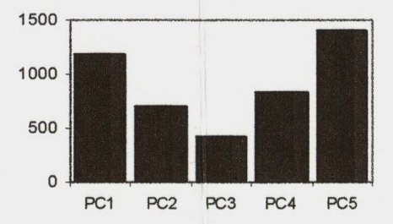
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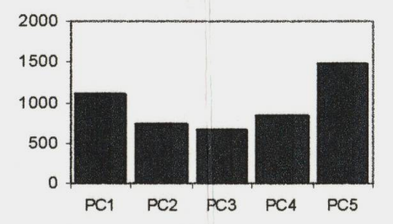
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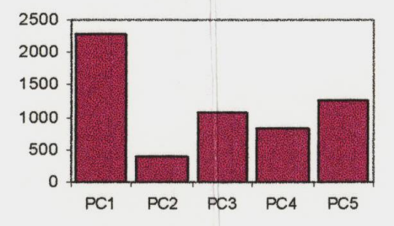
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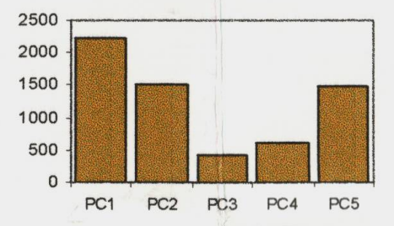
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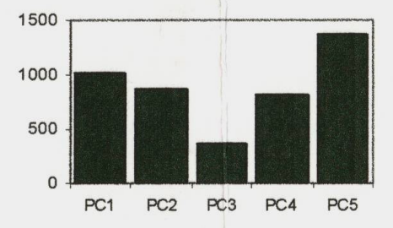
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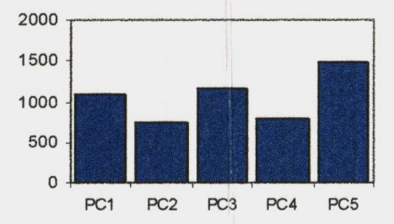
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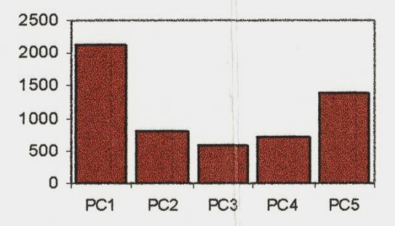
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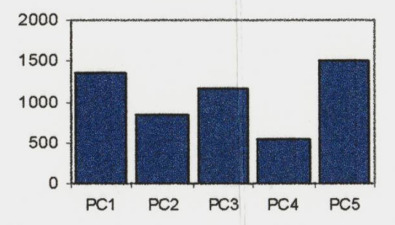
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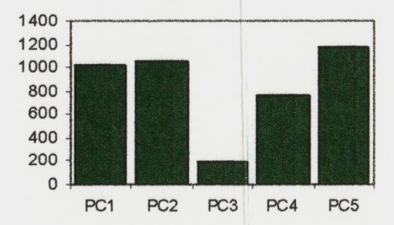
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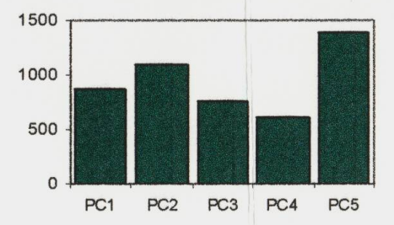
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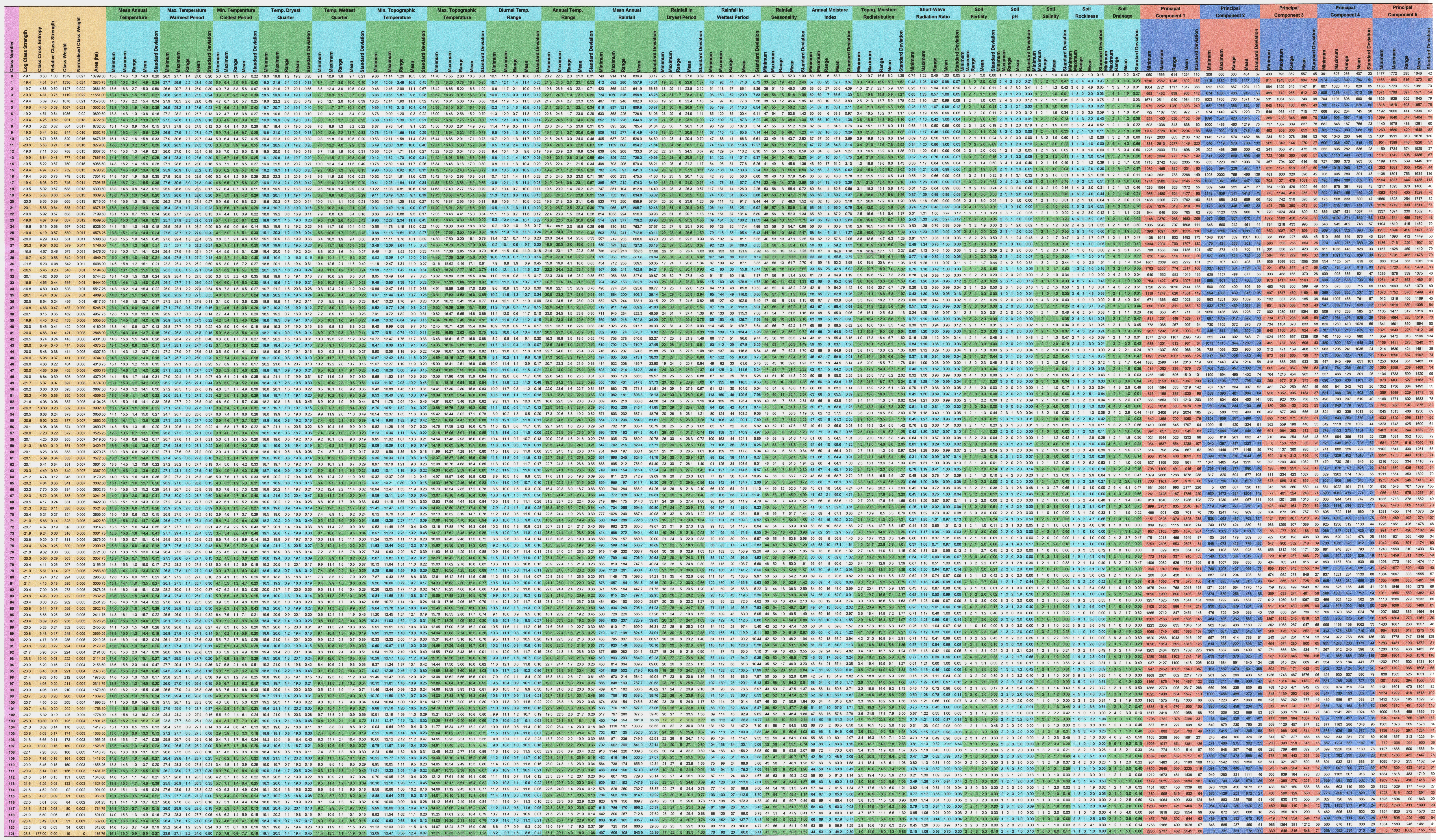
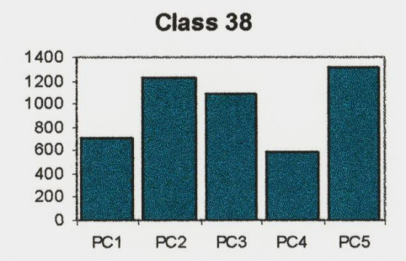


Displayed are class statistics for the 122 environment types identified in an environmental classification of the Mt. Lofty Ranges
Included is information for the 21 environmental variables included in principal components analysis of the physical environmental variation in the study area
Table displays a range of statistics for each environment type or class including minimum, maximum, range, mean, and standard deviation.
Classification was performed using a Bayesian classification technique (AutoClass C 3.3) with the first 5 principal components

The 122-group classification represents maximum homogeneity and minimum complexity as calculated by AutoClass C 3.3
Values for each principal component are graphed for each environment type
The colour of each graph was created by using the value of the first three principal components as Red, Green, and Blue values in a Visual Basic script in MS Excel 97
Hence, the more similar the colour of the graph, the more similar the environment types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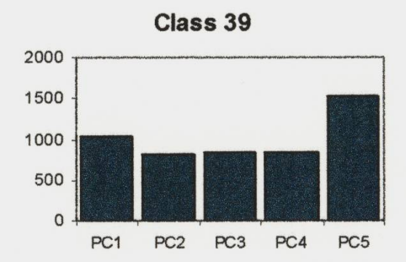
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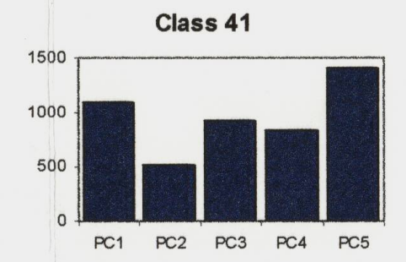
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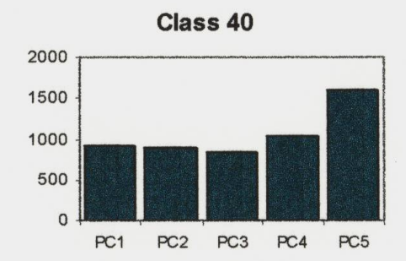
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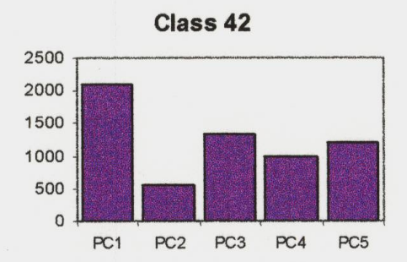
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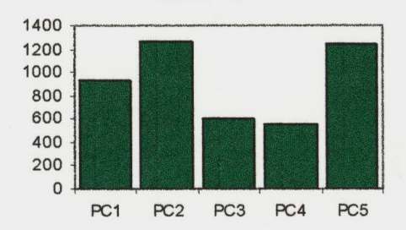
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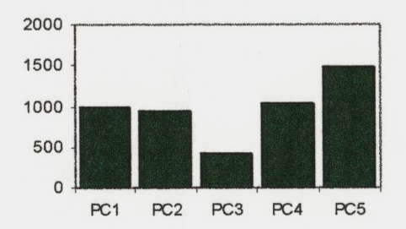
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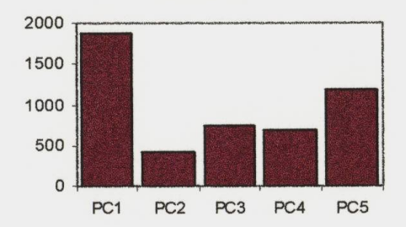
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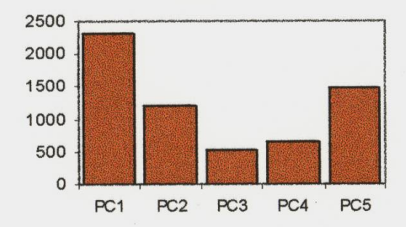
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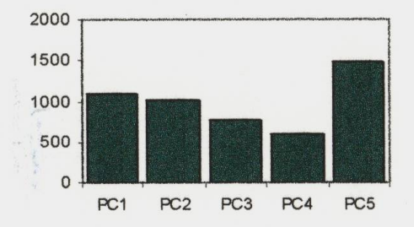
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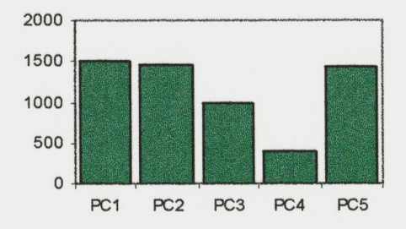
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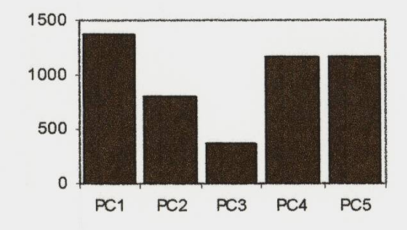
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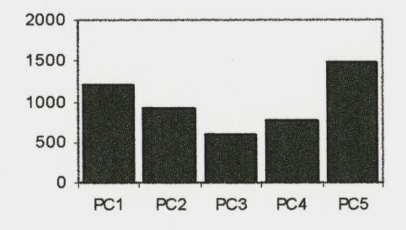
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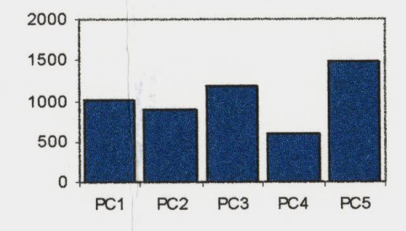
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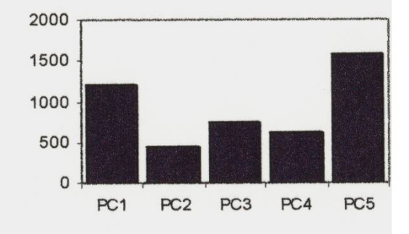
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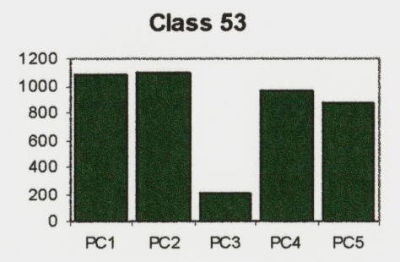
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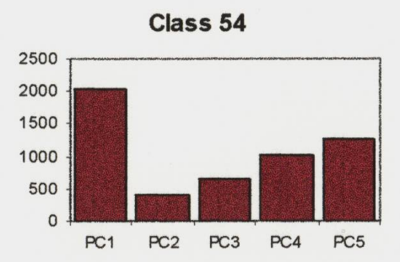
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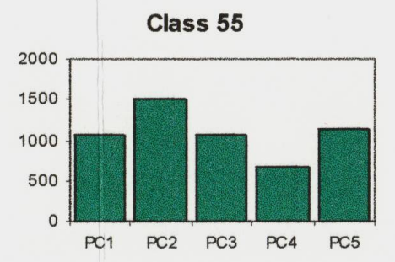
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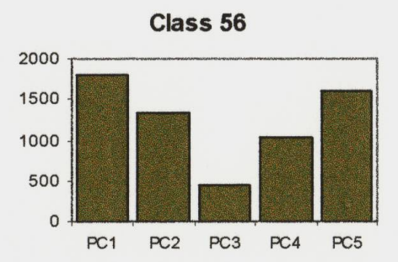
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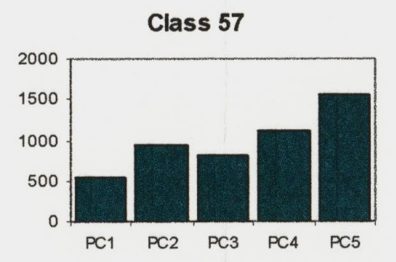
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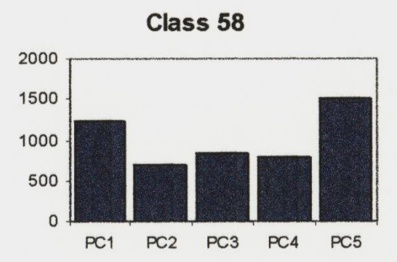
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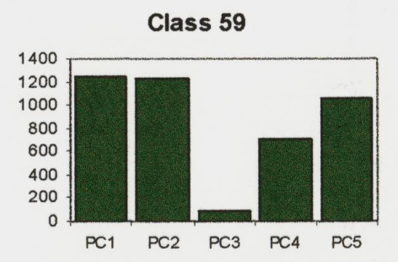
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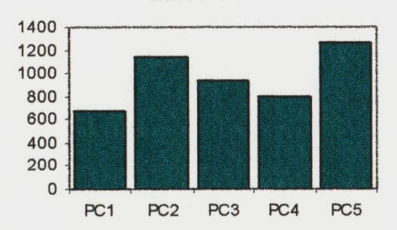
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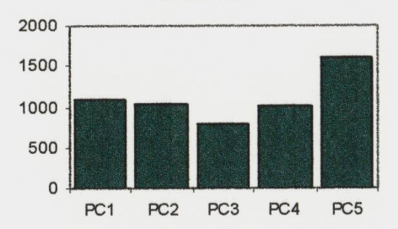
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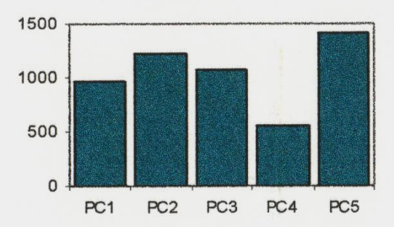
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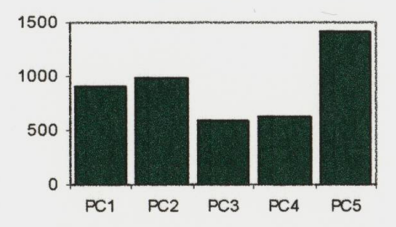
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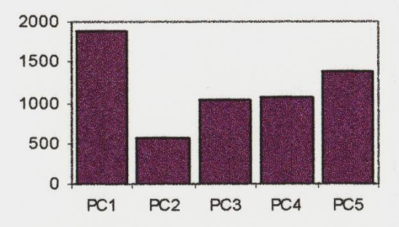
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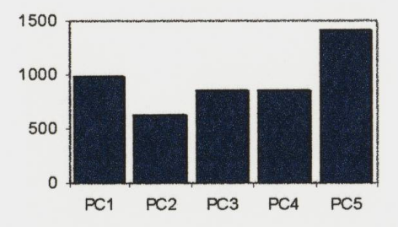
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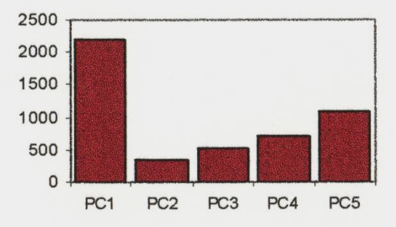
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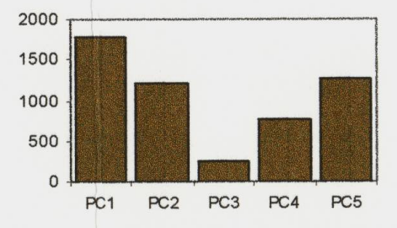
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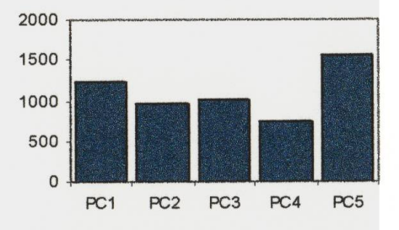
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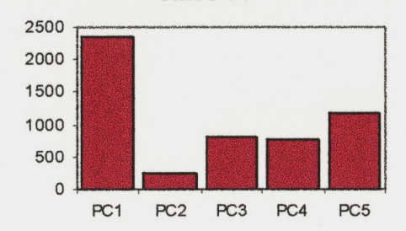
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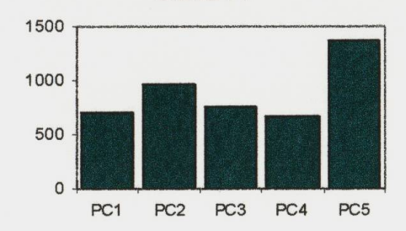
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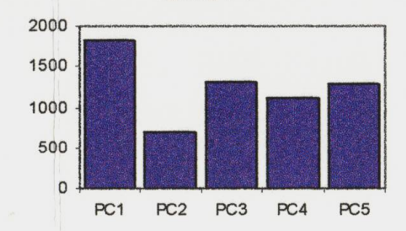
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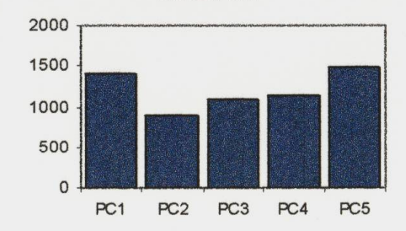
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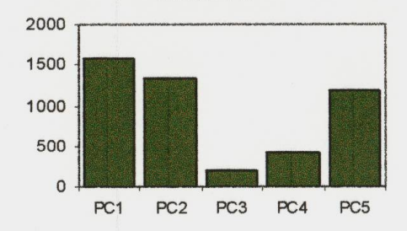
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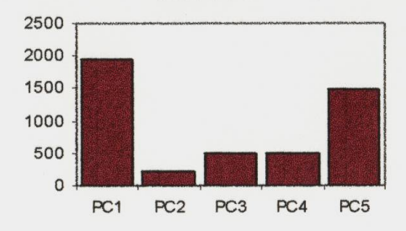
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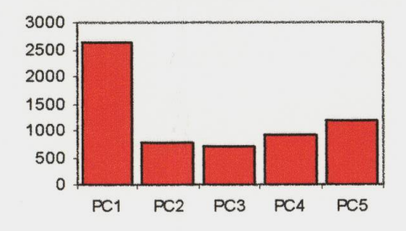
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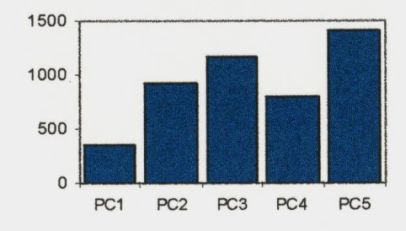
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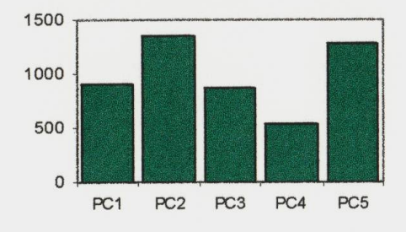
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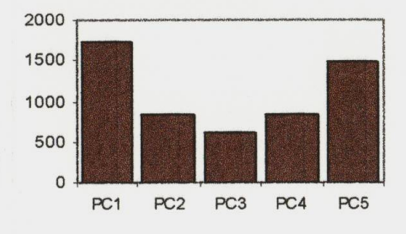
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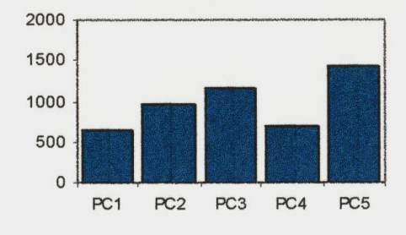
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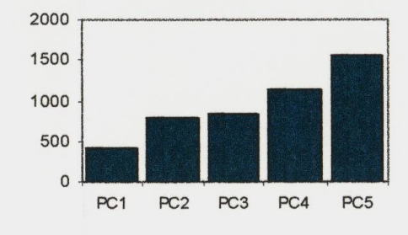
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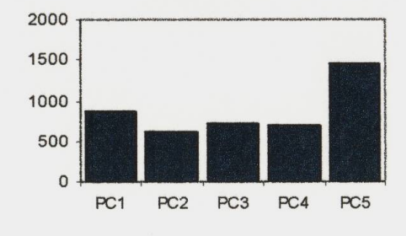
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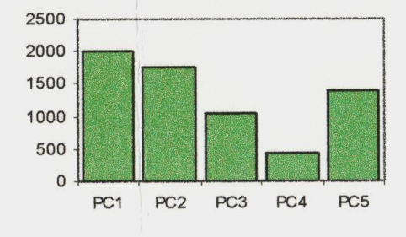
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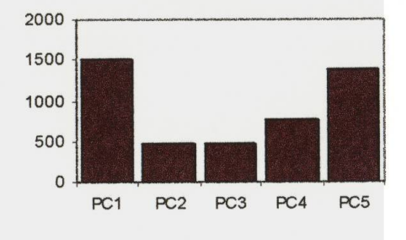
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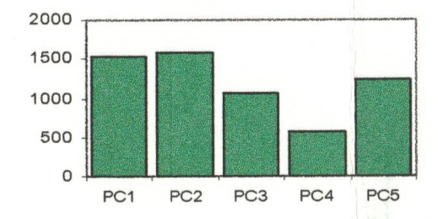
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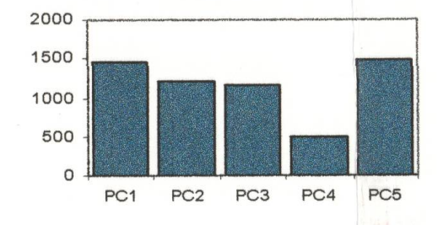
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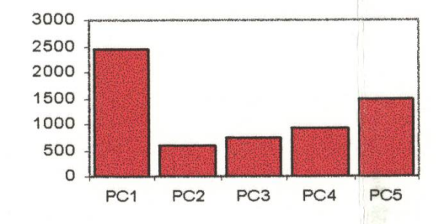
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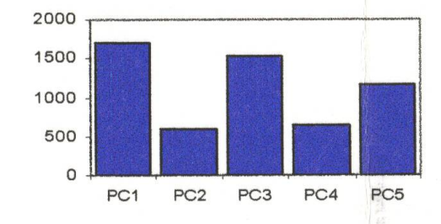
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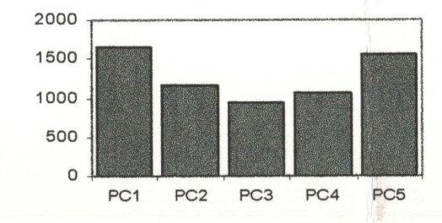
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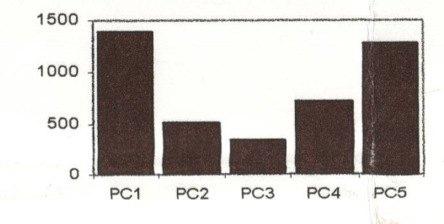
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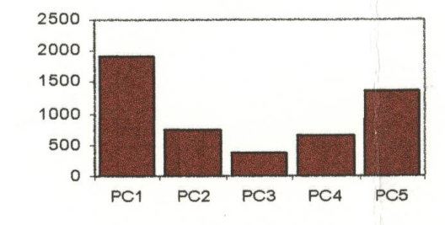
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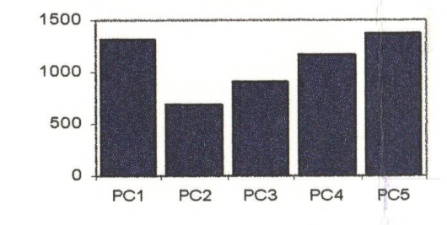
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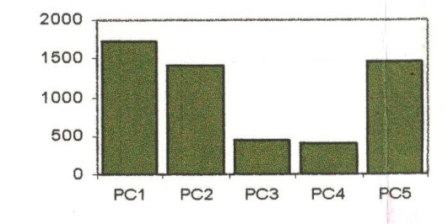
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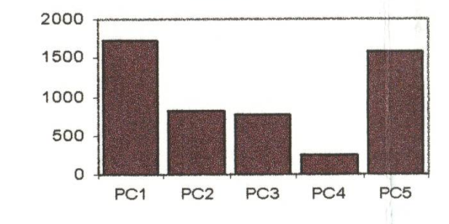
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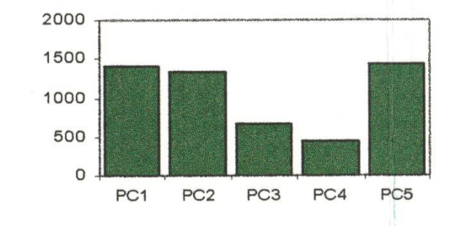
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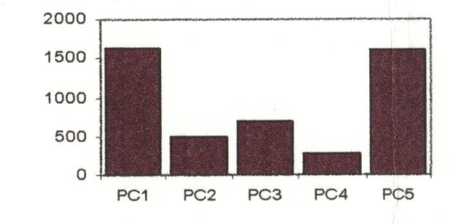
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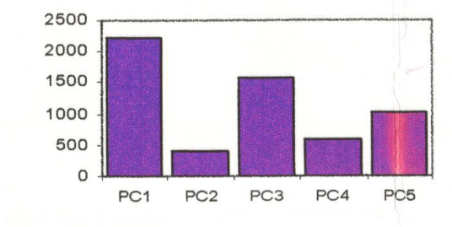
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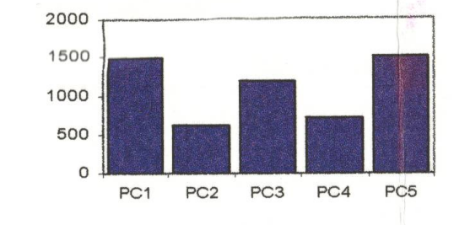
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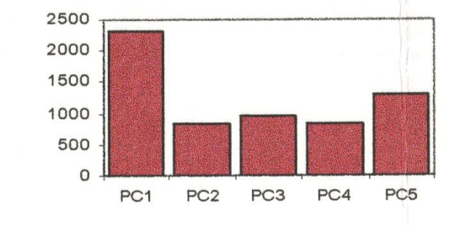
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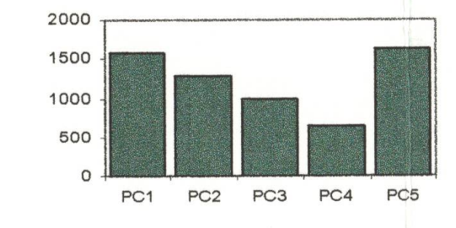
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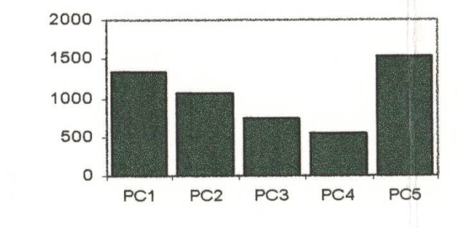
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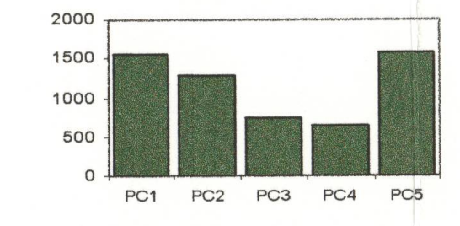
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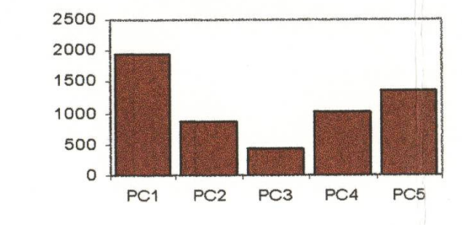
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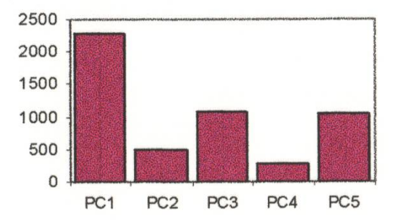
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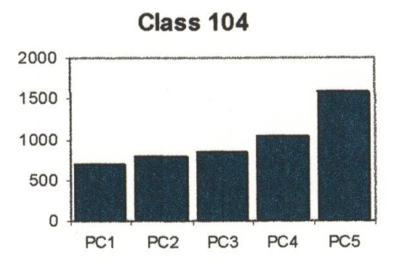
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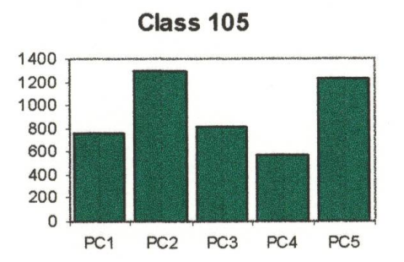
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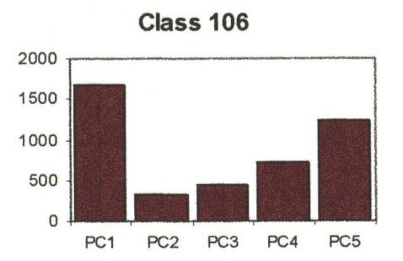
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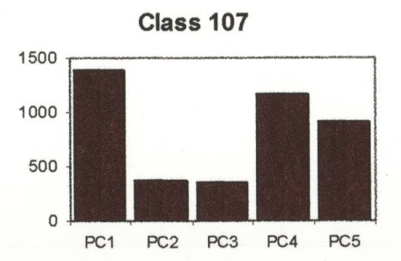
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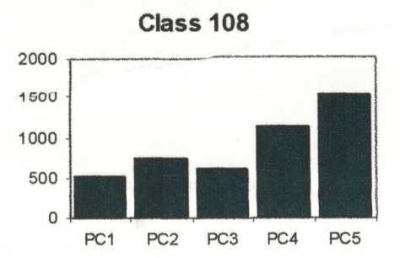
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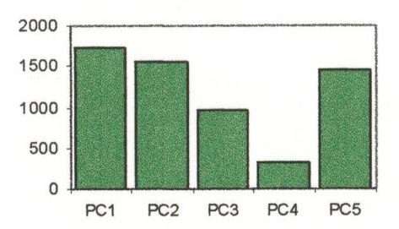
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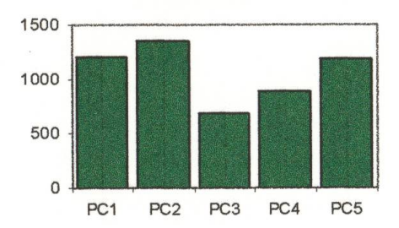
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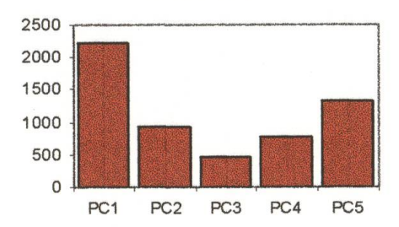
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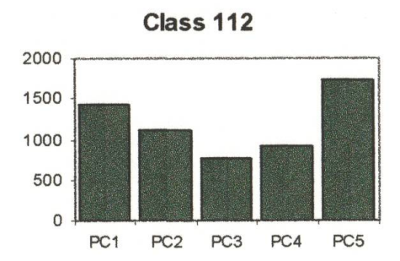
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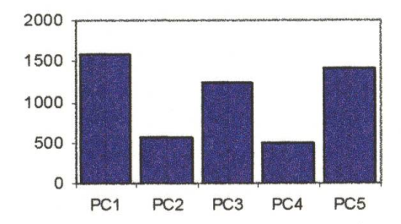
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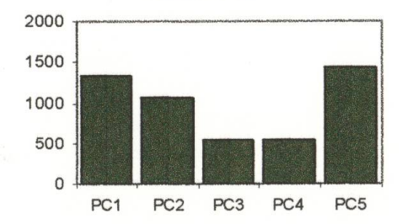
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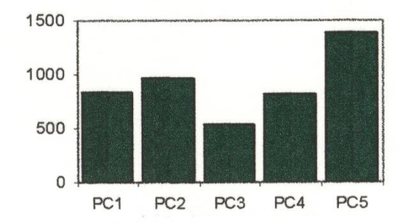
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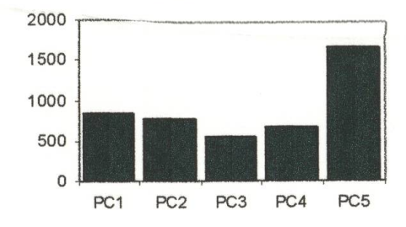
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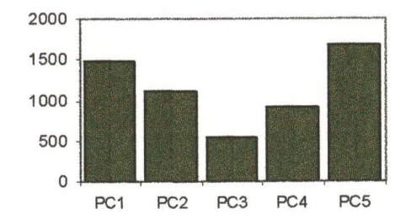
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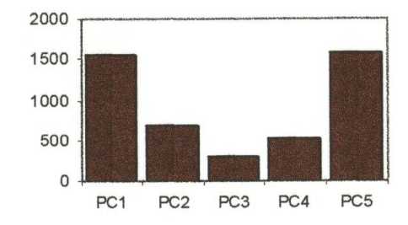
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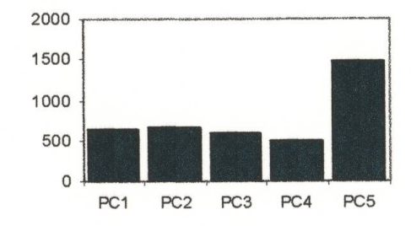
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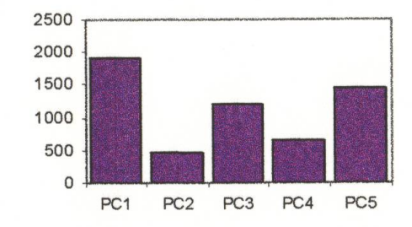
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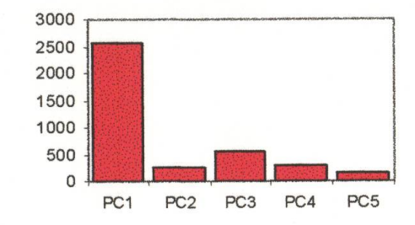

Class 121

Environments of the Mt. Lofty Ranges: ISOcluster Classification

1. North Para River

2. Pewsey Vale Creek/Williamstown

3. Keyneton

4. East of Eden Valley

5. Mount Crawford Forest

6. Little Para Reservoir

7. Montacute Conservation Park

8. Birdwood

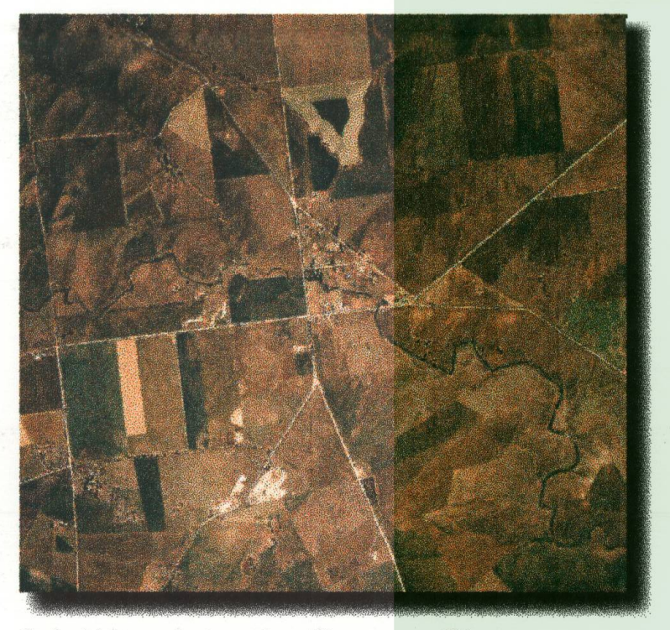
9. Harrison Creek/Palmer

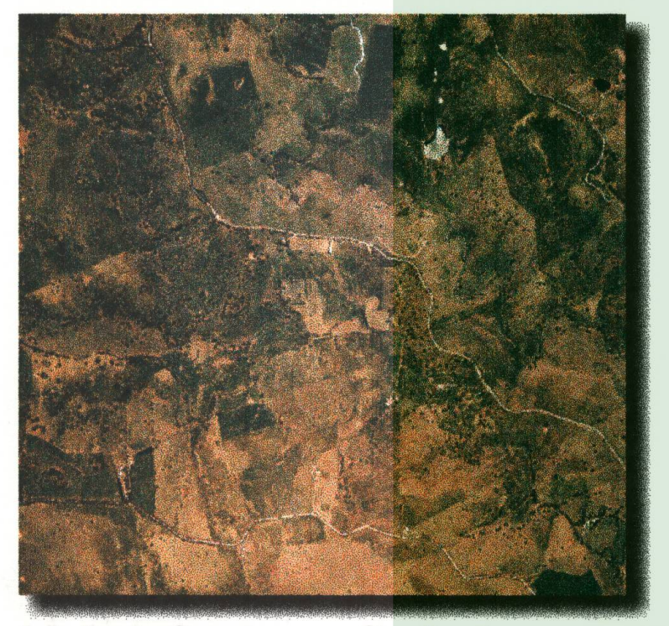
10. Devils Elbow/Craters

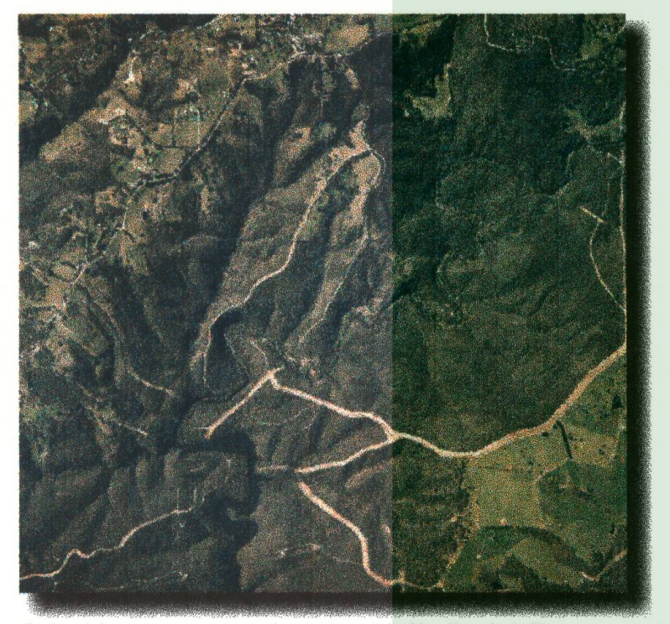
11. Blackwood/Belair

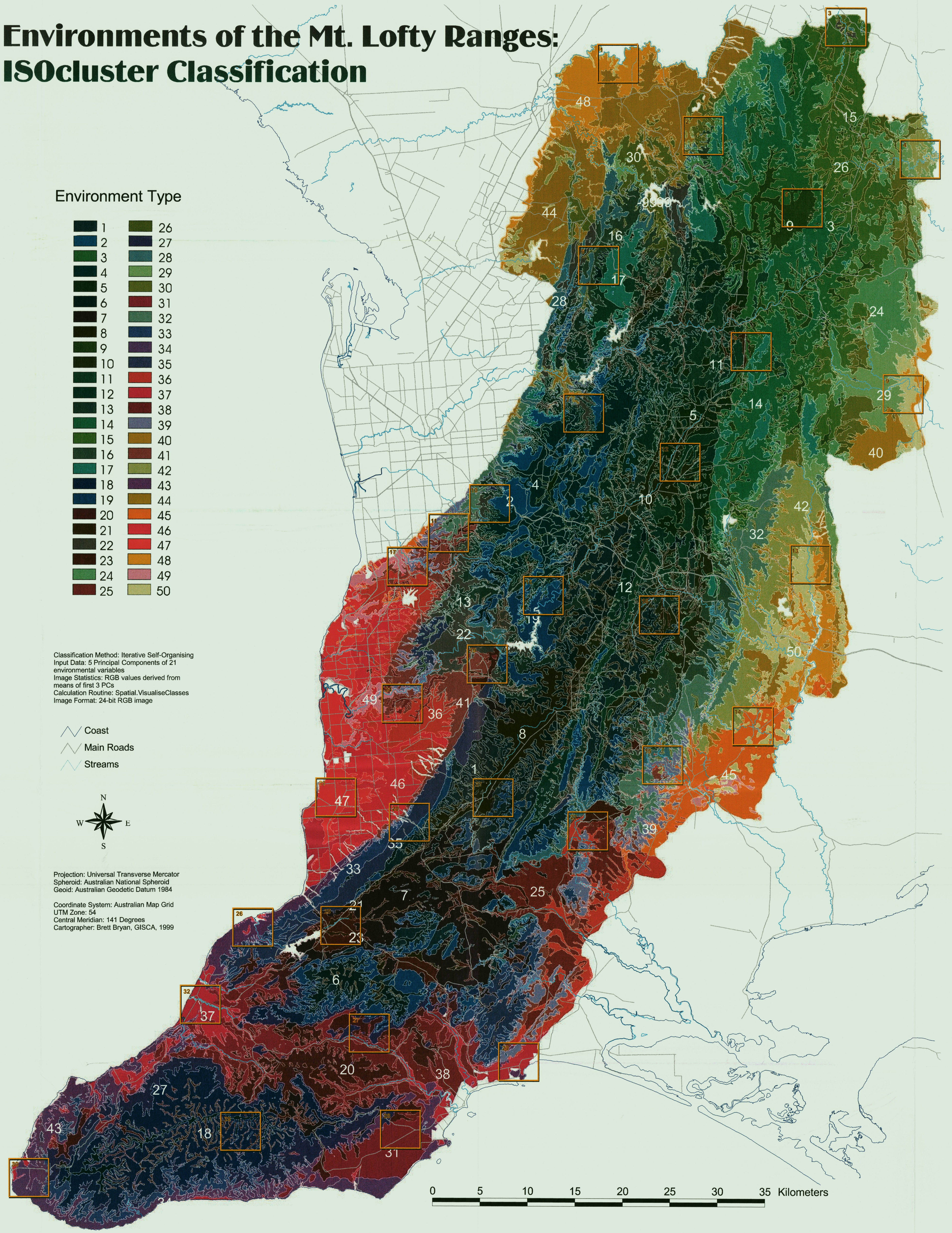
12. Woodside

13. Harrogate/Bremer headwaters


14. Woodchester/Bremer River


15. Paris Creek near Strathalbyn


16. Upper reaches of Mt. Bold Reservoir



Environment Type

■ 1	■ 26
■ 2	■ 27
■ 3	■ 28
■ 4	■ 29
■ 5	■ 30
■ 6	■ 31
■ 7	■ 32
■ 8	■ 33
■ 9	■ 34
■ 10	■ 35
■ 11	■ 36
■ 12	■ 37
■ 13	■ 38
■ 14	■ 39
■ 15	■ 40
■ 16	■ 41
■ 17	■ 42
■ 18	■ 43
■ 19	■ 44
■ 20	■ 45
■ 21	■ 46
■ 22	■ 47
■ 23	■ 48
■ 24	■ 49
■ 25	■ 50

Classification Method: Iterative Self-Organising
Input Data: 5 Principal Components of 21 environmental variables
Image Statistics: RGB values derived from means of first 3 PCs
Calculation Routine: Spatial.VisualiseClasses
Image Format: 24-bit RGB image

- Coast
- Main Roads
- Streams

N
W E
S

Projection: Universal Transverse Mercator
Spheroid: Australian National Spheroid
Geoid: Australian Geodetic Datum 1984

Coordinate System: Australian Map Grid
UTM Zone: 54
Central Meridian: 141 Degrees
Cartographer: Brett Bryan, GISCA, 1999

17. Sturt Gorge/Flagstaff Hill

18. South of Mt. Barker

19. Kangarilla

20. Sellicks Hill

21 Meadows Creek.

22. Ashbourne near Cox's Scrub

23. Port Elliot

24. McLaren Vale

25. Myponga

26. Myponga Beach

27. Inman Valley

28. Newland Head

29. Second Valley

30. Cape Jervois

31. Aldinga

32. Normanville