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1. Project Definition & Planning

1.1. Project Request

Department:	CALM
System:	RECINFO
Document:	Project Request

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1

Requested by: Swan District.

Start Date: December 12, 1993 Estimated completion date: _____

Estimated Workdays: _____ Estimated Costs: _____

Description of project:

Products to be produced: Project description

Benefits:

Title. Project approval Project signoff.

1.2. Statement of Scope

Department:	CALM
System:	RECINFO
Document:	Statement of scope

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1

1. Project: RECINFO -

2. Objective:

Provide an automated system for managing recreational facilities.

3. Scope:

The project will address the requirement to provide the Tourism & Recreation etc., to monitor activities in the management of nature reserves.

This project covers:-

Detailed analysis of requirements

Rationalisation of existing manual systems and conversion of these to an automated system to eliminate inadequacies of the existing manual systems and to provide better management of resources.

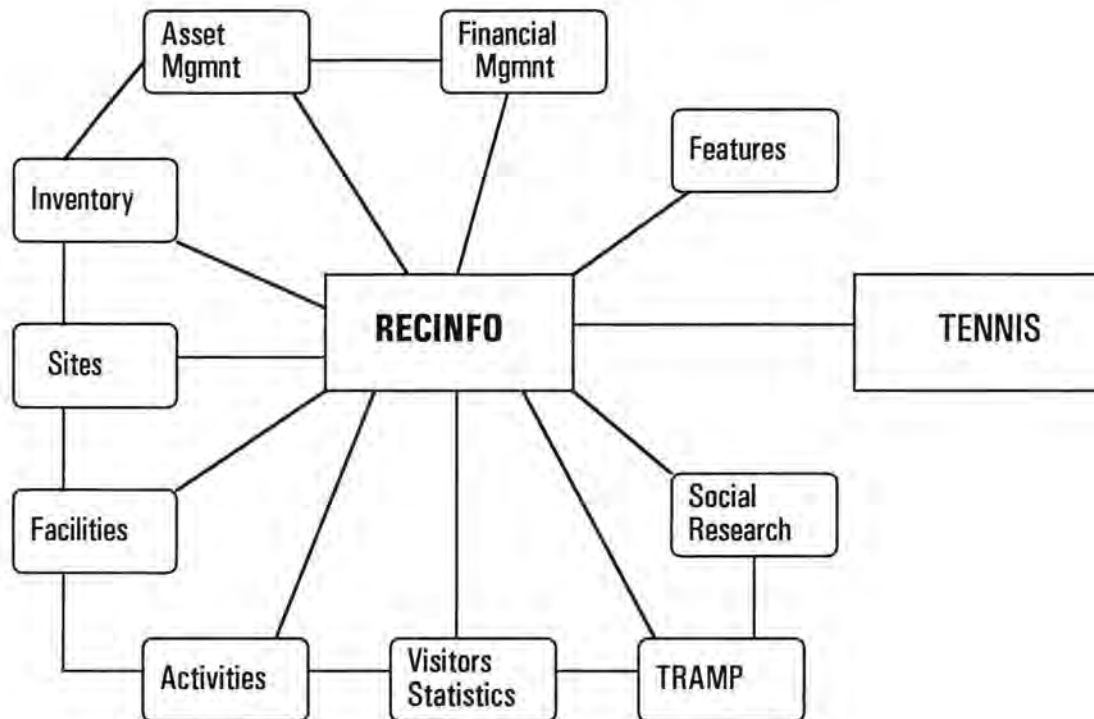
Normalisation of data to allow relationships between systems to be established and maintained.

Provision for online querying and report generation to be obtained using the most suitable and economical hardware and softwares available.

1.3. Project Data Model

Department:	CALM
System:	RECINFO
Document:	Project Data Model

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1

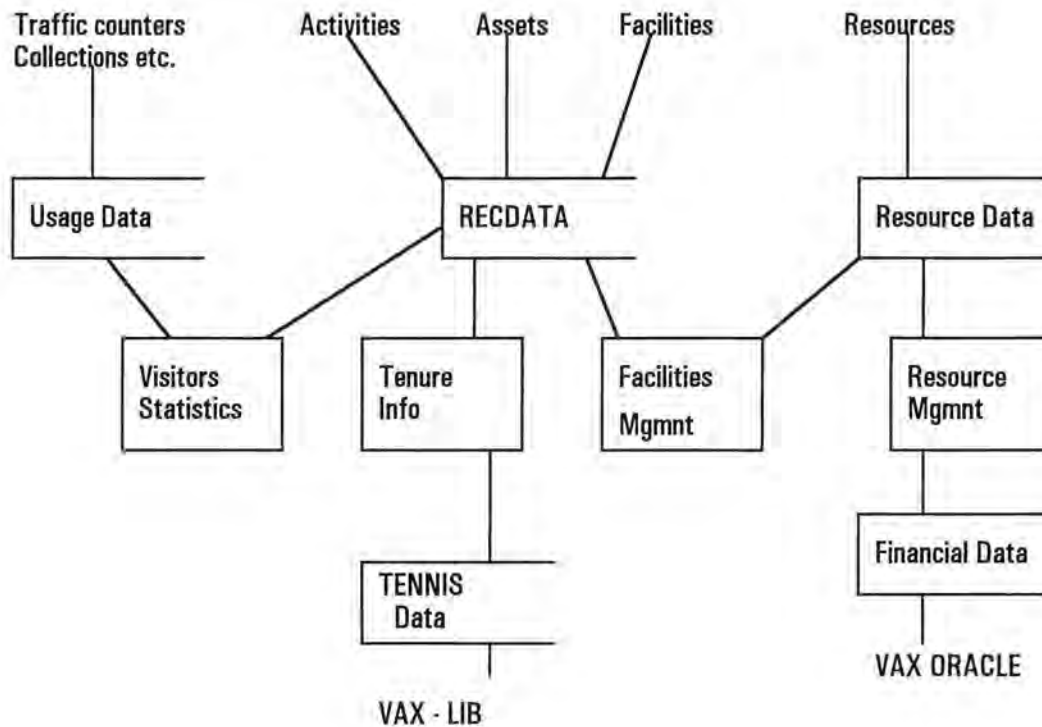


2. Information Plan

2.1. Information Flow Diagram

Department:	CALM
System:	RECINFO
Document:	Information Flow Diagram

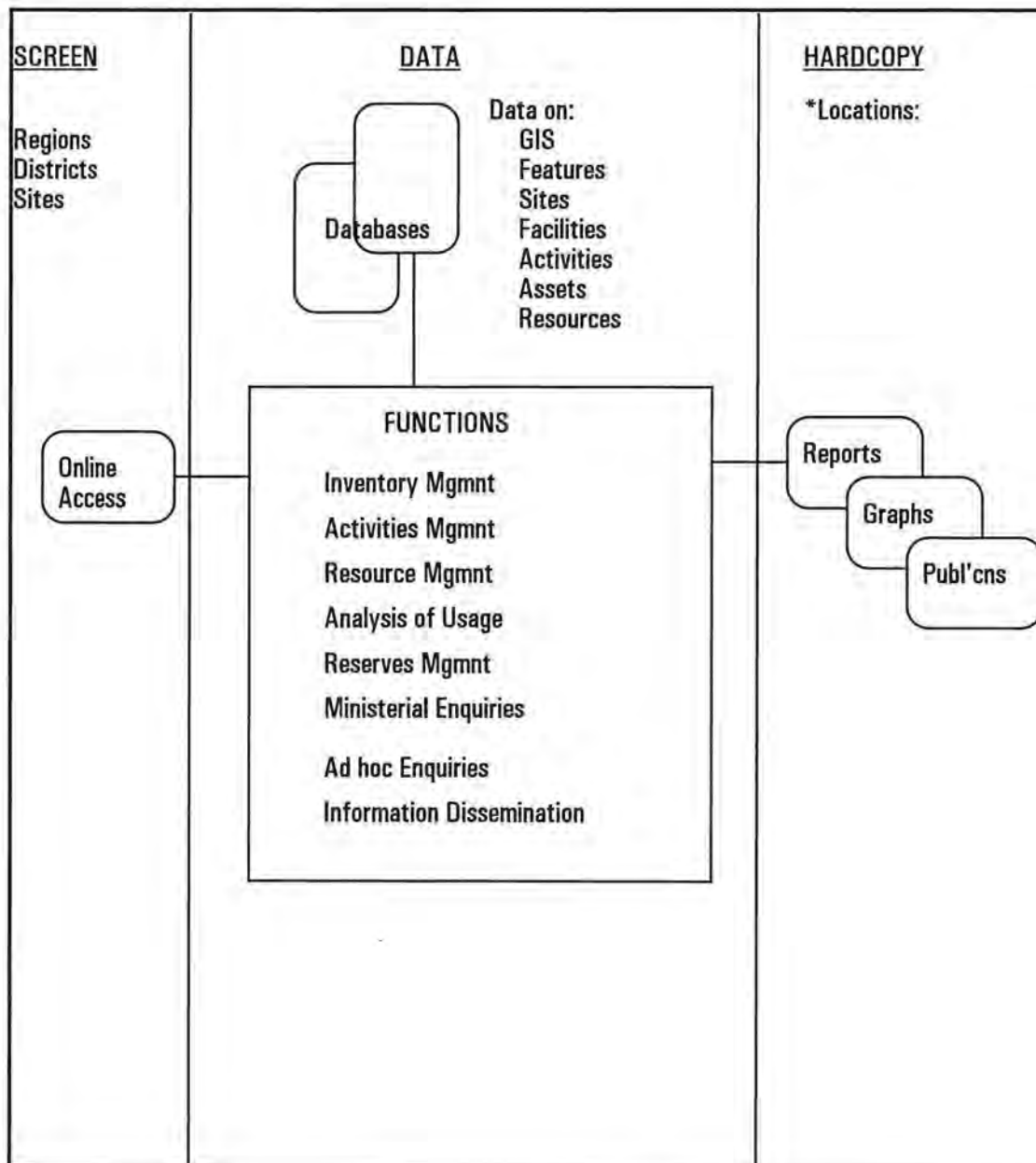
Prepared by: M. Choo	Reviewed by:	
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2.2. Conceptual Overview

Department:	CALM
System:	RECINFO
Document:	Conceptual Overview

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1



2.3. Key Data Types

Department:	CALM
System:	RECINFO
Document:	Key Data Types

Prepared by: M. Choo	Reviewed by:
Date:	Date:

page 1 of 1

Description	Item	Est. Volume		Est. storage		Maintenance Activity		
		at instln	> 1 yr	at instln	> 1 yr	Adds	Changes	Deletes
Activities (ACTIVITY)	50							
Districts (DISTRICT)	40							
Inventory items (ASSET_M)	90							
Facilities (FACILITY)	45							
Features (FEATURE)	100							
Local Authorities (L_AUTH)	55							
Landscape types (LSCAPE)	55							
National Parks (NPARKS)	65							
Officers / Staff (NAMES)	75							
Offices (OFFICE)	110							
Towns (TOWNS)	65							
Regional Offices								
Sites (SITES)	180							
Maps								
Tenure Information (TENURE)	50							
Arial Photos								
Soil types (SOILTYPE)	50							
Vegetation types (VEGTYPE)	55							
Road types (ROADTYPE)	60							
Landforms (LFORM)	50							
Visitors Info (VISTAT)	100							
Suppliers (SUPPLIER)	170							
Asset by Sites (S_ASSETS)	160							
Facilities by Sites (S_FAC)	40							
Features by Sites (S_FEATRE)	70							
Geology at Sites (S_GEOL)	55							
Landforms at Sites	55							
Log of activities on assets (ASSETLOG)	70							

Scanned Images at Sites (S_SCANNED)	200k							
Soli types at Sites (S_SOILS)	95							
Towns associated with sites (S_TOWNS)	155							
Tracks t Sites (S_TRACKS)	135							
Vegetation at Sites (S_VEG)	40							
Water at Sites (S_WATER)	135							
Weeds at Sites (S_WEEDS)	85							

2.4. Calculation Descriptions

Department:	CALM
System:	RECINFO
Document:	Calculation Description

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1

Visitor statistics:

1. Number of Vehicles (counter)

Cars - Counter value / 2

Coaches - ?

3.1 Inventory of workstations

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1

RECPROJ.DOC M. Choo 10 Dec 1993

4. Interface Requirements

4.1 Interfacing Systems

Department:	CALM
System:	RECINFO
Document:	Interfacing Systems

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1

Interfacing Systems: TENNIS

Owner: LIB

Requirements: Interactive online access to current information; read only data.

Approach: Negotiate agreement with system owner/custodian for access rights and implement system on PC platform at the required district offices and where needed.

Interfacing Systems: RED - Rare & Endangered Database

Owner: SID

Requirements: Online access to current information; read only data.

Approach: Negotiate agreement with system owner/custodian for access rights and implement system on PC platform at the required district offices and where needed.

5. Technical Specifications

5.1. Technical Considerations

Department:	CALM
System:	RECINFO
Document:	Resolution of major technical considerations

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1

This memorandum documents the major technical considerations affecting the architecture of the REDINFO system.

Current Situation

1. There is no automated system at present.
2. The level of expertise and support at each office is limited.
3. An office may be remote and facilities may be basic.
4. Funding is limited.

Requirement:

1. Fully automated user friendly system with a common corporate repository of information ie. a centralised data pool.
2. Comprehensive generalised system that will operate independently at each office.
3. The system will be operated from a number of CALM officers at different parts of the state. Computing facilities at these offices range from good to basic. and there may not be reliable communications with the mainframes at Como.
4. Updates will be carried out locally at the offices, however, the data is corporate in nature and any update will have to be reflected across all offices (there is a requirement to access data about facilities in adjoining reserves/parks).
5. Automated ability to extract data from the central pool and provide data to each office. Not all data from the common data pool will be required at an office (ie. only subsets are required).
6. Graphics is necessary.
7. At each office, a fair amount of disk storage will be needed (data, pictures etc..)
8. Integration to specialised systems required (eg. TENNIS, RED).

Design Considerations

1. Updates from different locations but there is a requirement for a centrally stored common pool of data with automatic backup facilities (may be VAX, LAN & WAN).
2. Each site office will only need access to subsets of data from the common pool. Update to date information is required at each site (updates from other offices will be required).
3. Each office will not be able to download and hold all the data from the common pool?
4. Cost - limited funding available for one-off installation & conversion and operating costs.

5. Support - remote sites will have support / expertise for basic systems & equipment (ie. PCs).
6. User level of expertise will be low and support will be minimal.
7. Use of 4GLs with good graphics is important.
8. Standard approach across all offices and use of common code lists is required.

DESIGN

The project will be divided into the following major modules:

- . Assets* inventory
- Visitors Information
- . Assets* management
- Visitors Statistics

note: * - includes facilities and features.

5.2. Hardware & Software Evaluation

Department:	CALM
System:	RECINFO
Document:	Hardware & Software platform evaluations

Prepared by: M. Choo	Reviewed by:
Date:	Date:

page 1 of 1

Purpose: To determine the most suitable and cost justifiable platform to operate the system.

5.2.1. Recommendations/Conclusions

Use both Vax and PC's.

5.2.2. Summary of evaluation process

1. Hardware:

1.1. Vax with terminal access by the end user. (cheap)

Advantages:- ability to store all the data in one location, has storage capacity, has automatic back up facilities, upgrades will be performed by ISB. ~~expertise available with Dept.~~

Disadvantages: Some users may not have fast line to VAX so response can be poor, not user friendly, system down time will affect all users, ISB charges for storage and use of VAX. ~~slow development.~~ Graphics? No access to info electronic data by PC for local manipulation.

1.2. Vax with PC access by the end user.

Advantages:- ability to store all the data in one location (ie currency & integrity), has storage capacity and speed of VAX, has automatic back up facilities, upgrades will be performed by ISB; depending on configuration, can even have distributed processing; PCs are cheap and cost effective, easy to use, friendly and integrates well with other office systems, .

Disadvantages: Some users may have slow line to VAX (graphics information will be a problem unless true distributed processing is available and even then some data may have to be duplicated), dependent on all sites having connectivity to the Vax.; VAX system down time will affect all users, ISB charges for storage and use of VAX. ~~New technology - but expensive~~

1.3. PCs and workstations (IBM Compatible PCs & McIntosh PCs).

Advantages:- Cheap and cost effective, easy to use, friendly and integrates well with other office systems, dynamic industry with much to offer in the future.

Disadvantages: Without LAN / WAN, difficult to share common information, no automatic backup facilities, PCs still prone to breakdowns. ~~(difficult to merge i.e. corporate info)~~

2. Softwares & System Configurations

2.1. VAX Oracle for all DATA retrieval (SQL Forms).

Advantages: preserve data integrity, current information available at any time, non-duplication of information hence less complications, possibility of integrating with CALM's new ASSET register system; some features already available on VAX and some expertise available in CALM. ~~Software knowledge~~

Disadvantages: ~~dependent on all sites being on a network~~ response to Graphics will be slow as data has to be transmitted down the communications line; CALM does not have Graphics component, user access via terminals - cumbersome and difficult to use. ~~development slow & clumsy. less feature available (old technology)~~

2.2. VAX Oracle for all DATA retrieval with PC Oracle at user end.

Advantages: preserve data integrity, current information available at any time, non-duplication of information hence less complications; can develop an integrated system with all the required features. Possibility of distributed processing, possibility of integrating with CALM's newly acquired ASSET register system; some expertise available in CALM.

Disadvantages: Graphics modules and PC oracle (or its runtime version) have to be purchased for each PC. - very costly. ~~For true distributed processing, all sites will have to be on LANs and run under WINDOWS NT; graphics performance will be slow unless selective datasets are stored at the sites (some data duplication).~~

2.3. VAX Oracle for all DATA retrieval with Paradox/Windows (PC) at user end.

Advantages: good graphics interface, readily available, good prospects of growth and improvement in performance, easy to use, friendly, cheap option, can develop an integrated system with all the required features. possibility of integrating with CALM's newly acquired ASSET register system. any number of paradox runtime copies can be created at no cost; some expertise available in CALM. , easy slow

Disadvantages: VAX Graphics modules have to be purchased.; true distributed processing not possible. *slow response* *graphics performance will be slow unless selective datasets are stored at the sites (some data duplication).* *all PCs have to be on LAN + WAN* *DATA BASE some needed.* *has to be purchased for each PC.*

2.4. VAX Oracle for all DATA retrieval with Access/Windows (PC) at user end.

as section 2.3 above, but there is no expertise currently in CALM. *but no SQL window available but SQL connect window available. No info on runtime module.* *can use some but*

2.5. Gupta SQL

Disadvantage - Runtime module charge per PC

2.6. VAX Oracle for SOME DATA with Paradox/Windows (PC) at user end.

Advantages: good graphics interface, readily available, good prospects of growth and improvement in performance, easy to use, friendly, cheap option, can develop an integrated system with all the required features. possibility of integrating with CALM's newly acquired ASSET register system. any number of paradox runtime copies can be created at no cost; some expertise available in CALM.

Disadvantages: VAX Graphics modules have to be purchased.; true distributed processing not possible. graphics performance will be slow unless selective datasets are stored at the sites (some data duplication) data duplication (only available at at each site), complications with data integrity and accuracy as sites might store data relating to different sites, problem with access to data from different sites, require each site to diligently perform backups and have its own offsite backup storage facility.

2.7. VAX Oracle for SOME DATA with Access/Windows (PC) at user end.

as section 2.6 above, but there is no expertise currently in CALM.

(2.8) PC data my PC software (Paradox/Windows)

Vax oracle for all data with subsets on PC software at user end.

- advantage - portability - data can be updated directly - field eg. inventory / assets of laptops.

2.9 true distributed processing not available with L4m.

5.3. Options & Costs

Department:	CALM
System:	RECINFO
Document:	Options & Costs

Prepared by: M. Choo	Reviewed by:	
Date:	Date:	page 1 of 1

1. Hardware

1.1. VAX available at Information Systems Branch (ISB). ISB is a business unit ; storage cost - \$ _____

1.1. PCs - 486DX33 with 200Mb HD etc.. \$2800

1.2. Ink jet printer

HP Deskjet 500 \$500

1.3. Lazer printer

HP Lazerjet 4L \$1000

HP Lazerjet 4NL \$1500

1.4. Colour printer

HP Deskjet 500C \$650

2. Software

2.1. VAX Oracle - *my SQL* available - no cost

2.2. PC Oracle
Oracle runtime - per PC -

2.3. Gupta SQL

2.4. Access / Windows \$350
ACCESS SQL link \$ *1200*

Runtime per PC - no cost

Runtime generator \$?

2.5. Paradox/ Windows \$250 / *PC*
PARADOXSQL link \$ *2000*
Paradox windows workgroup \$610
Runtime generator \$710
Runtime per PC - no cost *or*

2.6. DBASE

5.4.. Recommendation

Department:	CALM
System:	RECINFO
Document:	Recommendation Hardware + Software
Prepared by: M. Choo	Reviewed by:
Date:	Date:

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1. Corporate information

Data updated at the individual sites/offices will be collated together and stored in a common pool in one location. It is recommended that the data will be stored and manipulated using ORACLE on the CALM VAX.

The arrangement will be able to provide ample storage as well as back-up and restore facilities.

2. Site based information

This will be PC based (network aware where LANs have been established) and will operate in a 'WINDOWS' environment. The software will have SQL links to facilitate exchange with ORACLE in the VAX environment. Data stored remotely will primarily be graphics data.

The following hardware configuration is recommended:

IBM compatible 486DX33 or above with minimum of 8 Mb RAM, 200MbHD, 1.44MbFDD
SVGA non-interlaced monitor.

Ink jet or Lazer Printer depending on requirements of the site (small remote site with small volume of printing should use inkjet printers whereas those with requirement to print large volumes should use lazewrs.

3. Development Software

3.1. Vax

ORACLE / SQL interface.

3.2. PCs

PARADOX/WINDOWS / SQL interface or Microsoft ACCESS / SQL interface. - one to be decided on.

4. Production Environment

IBM PC WINDOWS environment
RECDATA system operating RUNTIME version of development software.

Site

VISSTAT ② How to know how many in a vehicle.
 ① how do distinguish classes of vehicles - buses,
 - Motor bike
 - cars
 - boats.

DATE
↓

Counter/2
 (Vehicle count)
 → average
 cost vehicle/day
 (date1 - date2)

Comments.

- total vehicle/month.
 - month.
 - ~~total for area.~~
 - Season
 - Weekday.
- All.
 Region
 District
 sites.

breakdown by
↓

Classes.					Total
	①. buses	cars	bikes	boat.	
Sites.	# # visitors \$	# # visitors \$	# # visitors \$	# # visitors \$	

SWAN REGION

PARK/SITE *****	COUNTER READING/ EXTRAPOLA- TION FOR 12 MTHS (T1) -STAFF TRIPS (T) *****	BUS/ COACH NOS. (B) *****	1991/92				TOTAL VISITS Cv + Bp + Other (to nearest '000) *****	LAST YEAR'S TOTAL AND COMMENTS *****
			CAR/ BOAT NOS. T-B (C) *****	CAR/BOAT OCCUPANCY (Co) *****	CAR VISITORS C x Co (Cv) *****	BUS PASS. (Bp) *****		
1. AVON VALLEY	41 Mile Road 1,745 Quarry Road 3,548 5,293	- -	- - 5,293	 2.5	 13,233	-	 13,233 13,000	21,000. Current 1991/92 figure is more accurate than data collected previously, therefore a comparison is not possible.
2. FRED JACOBY PARK	Hampel North 11,000 Central 8,200 South 2,900 22,100	-	 22,100	 4.0	 88,400	-	 88,400 88,000	99,000. A small decrease of -11.1% for current financial year.
3. GARDEN ISLAND (seasonal)	Boats observed, based on weekend surveys only 1,889	-	 1,889	 3.0	 5,667	-	People on the beach: 2,521 5,667 8,188 8,000	10,000. A small decrease of -20% for current financial year.
4. GOORALONG	Counter vandalised. Data from 1990.						27,000	1990 data.
5. HERDSMAN LAKE	10,321 (extrapolated from 3 months of data received).	208	10,113	3.0	30,339	6,240	36,579 37,000	38,000. A very small decrease of -2.6%.
6. JOHN FORREST	Ticket Box 25,579 Scenic Drive 8,505 34,084	-	 34,084	 4.2	 143,153	-	 143,153 143,000	135,000. An increase of 5.9%.

Act_code	Description
BOATING	Boating
CANOEING	Canoeing
CLIMBING	
HIKING	
SWIMMING	Swimming
WALKING	

Asset_Code	Class	Description	Value	Lifespan
4WHEELDRIVE	VEHICLE			
BBQ GAS				
BBQ WOOD				
BILLBOARD	BILLBOARD			
BUILDING	BUILDING			
CANOES				
CAR	VEHICLE			
CARAVANS				
FIRE TRUCK	VEHICLE			
KAYAKS				
MINIBUS	VEHICLE			
MOTOR BOAT	BOAT			
PADDLE BOAT	BOAT			
ROADSIGN	SIGNS			
SHOWERS	CONVENIENCE			
TOILETS	CONVENIENCE			
UTE	VEHICLE			
VANS	VEHICLE			

Facility	Descn	Cost
Accommodation	Accommodation	
Barbecues_wood	Barbecues_wood	
Barbecues_gas/electr	Barbecues_gas/electric	
Bins	Bins	
Birdhides	Birdhides	
Boardwalks/Bridges	Boardwalks/Bridges	
Camp_'walk-in'	Camp_'walk-in'	
Vehical	Vehical based tent	
Campervan/caravan	Campervan/caravan sites	
Fees	Fees	
Disabled	Disabled accessible facilities	
Information	Information shelters	
Kiosk/shops	Kiosk/shops	
Lookout/viewing	Lookout/viewing platforms	
Picnic	Picnic tables	
Playground/equipmen	Playground/equipment	
Seats	Seats	
Shelters/huts	Shelters/huts	
Showers	Showers	
Signs	Signs	
Pool	Pool	
Ovals	Ovals	
Golf	Golf courses	
Toilets	Toilets	
Visitor	Visitor centres	
Visitor	Visitor registration	
Water	Water supply	
Canoeing		
Swiming		
Fishing		
Drinking Water		
Barbecues		
Walking	Marked Walk Trail	
Boat L	Boat Launching	

house
unit
Flat
Caravan site.

~~Age~~

FACILITY ASSET.

Facility Code. Asset Code.

? how can we relate ASSET to Facility to Activities

District code	Region_code
Kununurra	Kimberley
Karratha	Pilbara
Geraldton	Greenough
Kalgoorlie	Goldfields
Mount Pleasant	Metropolitan
Kelmscott	Northern Forest
Bunbury	Central Forest
Manjimup	Southern Forest
Narrogin	Wheatbelt
Albany	South Coast
Nannup	Central Forest
Collie	Central Forest
Mundaring	Swan
Coas. Waters	Swan
Swan	Swan
Jarrah	Swan
Perth	Swan

F_Code	Features	Features Comments
River/s	River/s	
Landforms C	Coastal landforms	
Beach	Beach	
Fishing G	Good fishing	
History E / A	Aboriginal / European history	
Landform C	Cave landform	
Outcrop G	Granite outcrop	
Fauna	Fauna	
Flora	Flora	
Views	Views	
Wetlands	Wetlands	
Lookout	Lookout	
Features G	Geological features	
Woodlands	Woodlands	
Valleys R	River Valleys	
Forest K	Karri Forest	
Waterfall	Waterfall	
Forest J	Jarrah Forest	
Sandplain	Sandplain	
Shrubland	Shrubland	
Scenery C	Coastal Scenery	
Beaches	Beaches	
Reef C	Coral Reef	
Gorges I	Inland Gorges	
Forest M	Marri Forest	
Highground S	Spinifex Highground	
Dunes C	Coastal Dunes	
Caves	Caves	
Numbats	Numbats	
Woodland W	Wandoo Woodland	
Wilderness W I	Isolated Woodland Wilderness	
Scarp	Scarp	
Lake/s	Lake/s	
Mallee	Mallee	
Sandhills	Sandhills	
Cliffs L	Limestone Cliffs	
Scenery C	Coastal Scenery	
Gorges R	River Gorges	
Mountains	Mountains	
Sandplain I	Inland Sandplain	
Heath	Heath	
Gorge R A	Ancient River Gorge	
Country M	Mulga Country	
Lookout R D	Darling Range Lookout	
Dams	Dams	
Flora R	Roadside Flora	
Valley A	Ancient Valley	
Cliffs A	Ancient Cliffs	
Wildflowers	Wildflowers	
Lookout S D	Darling Scarp Lookout	
Forest T	Tuart Forest	
Trees	Trees	
Pools	Pools	
Palms	Palms	
Country S	Spinifex Country	
Spring i W	Wildflowers in Spring	
Desert P	Pinnacle Desert	
Outcrops G	Granite Outcrops	
Panorama S	Scenic Panorama	
Peaks G	Granite Peaks	
System L S	Salt Lake System	
Forest E	Eucalypt Forest	
Wetlands C	Coastal Wetlands	

F_Code	Features	Features Comments
Dunes S	Sand Dunes	
Fishing	Fishing	
Waterways	Waterways	
Site H	Historical Site	
Forests T	Tingle Forests	
Forests P	Pine Forests	
Woodland B	Banksia Woodland	
Crater M	Meteorite Crater	

LA_code	LA_Name
COLLIE NANNUP	Nannup Shire

Lscape_Code	Desc
1	Leeuwin Naturaliste Coast
2	Swan Coastal Plain
3	scout Coastal Plain
4	Darling plateau
4.1	Darling Uplands
4.2	Pemberton Slopes
5	Wheatbelt Plateau
5.1	Geraldton Plain
5.2	Dryanalra uplands
5.3	Merredin Plateau
5.4	Esperance Plain
6	Kalgoorlie Plain
7	The Nullarbor
7.1	Nullarbor Plain
7.2	Mardabilla Plain
7.3	Israclite Plain
8	Meekatharra Plateau
9	Kalbarri Sandplain
10	Shark Bay Peoinsulas
10.1	Edel
10.2	Peron
11	Carnarvon Coastal Plain
12	North West Cape Ranges
13	Wooramel Plains
13.1	Minilya Dunes
13.2	Talisker Plain
14	Ashburton Plain
15	Karratha Coastal Plain
16	De Grey Lowlands
17	Nullagllne Hills
18	Chichester Ranges
19	Fortescue Valley
20	Hanersley Ranges
20.1	Ashburton Valley
21	Gascoyne Ranges
21.1	Bonnet Creek Hills
22	Murchison Plateau
22.1	Kennedy Ranges
22.2	Macadam Hills
23	Great Victoria Desert Dunefields
23.1	Stanley Hills and Dunes
23.2	Carnegie Plain
23.3	Glengarry Hills
23.4	Lecman Sandplains
24	Warburton Ranges
25	Central Sandplains
25.1	Moeller Sandplain
25.2	Stansmere Ranges and Dunefield
25.3	Mackay Dunefield
25.4	McDonald Sandplain
25.5	Amadeus Lowlands
25.6	Rawlinson Petermann Ranges
25.7	Gungarungal Sandplain
26	Tanami Sandplain
27	Gibson Desert
28	Little Sandy Desert
28.1	Rudall Tablelands
29	Great Sandy Desert
30	Eighty Mile Plain
31	Dampler Tablelands
32	Fitzroy Plains
32.1	Fitzroy Ranges
33	Sturt Plateau

LScape_Code	Desc
34	Ord Plain
35	Springvale Hills
35.1	Springvale Hills
36	Leopold Durack Ranges
36.1	Fitzroy Uplands
36.2	Cart_Boyd Ranges
37	Yampl Peninsila
38	Cambridge Gulf Lowlands
39	Kimberley Plateau

Off_code	Off_name	Locn_code	Area	Phone	Area_code
Abb.I.J.	ABBOTT I.J.	COMO	Research		09
Alf.J.J.	ALFORD J.J.	WAWRC	Research		09
Alg.D.	ALGAR D.	WAWRC	Research		09
All.J.	ALLEN JUDE (BORL USR)	COMO	Wildlife	3670474	
And.C.	ANDERSON C.	WAWRC	Research		
Ann.A.R.	ANNELS A.R.	MANJI	Research		09
Arm.J.A.	ARMSTRONG J.A.	HERBIE	Research		09
Bak.S.G.	BAKKER S.G.	?HERBIE	Research		09
Bar.J.R.	BARTLE J.R.	COMO	Research		09
Ben.M.T.	BENKOVIC M.T.	?HERBIE	Research		09
Bir.T.C.	BIRMINGHAM T.C.	DWELLGP	Research		09
Bly.J.	BLYTHE J.	WAWRC	Research		09
Bow.R.J.	BOWLES R.J.	?DWELLG	Research		09
Bre.G.K.	BRENNAN G.K.	?COMO	Research		09
Bro.A.P.	BROWN A.P.	WAWRC	Research		09
Bue.R.M.	BUEHRIG R.M.	DWELLGP	Research		09
Bun.F.J.	BUNNY F.J.	COMO	Research		09
Bur.A.A.	BURBIDGE A.A.	WAWRC	Research		09
Bur.A.H.	BURBIDGE A.H.	WAWRC	Research		09
Bur.D.P.	BURTON D.P.	COMO	Research		09
Bur.N.D.	BURROWS N.D.	WAWRC	Research		09
Bur.T.E.	BURBIDGE T.E.	COMO	Research		09
But.T.B.	BUTCHER T.B.	COMO	Research		09
Cad.L.M.	CADE L.M.	WAWRC	Research		09
Cap.N.	CAPORN NORM (BORL USR)	COMO	Wildlife	3670474	
Car.D.L.	CARTER D.L.	?COMO	Research		09
Cha.A.R.	CHAPMAN A.R.	HERBIE	Research		09
Cho.H.C.	CHOO H.C.	WAWRC	Research		09
Chr.P.E.	CHRISTENSEN P.E.	MANJI	Research		09
Cle..P.	CLEARY PAT	WANN	N.dist	4051222	09
Cli.H.	CLIFT HUGH	WAWRC			
Coa.D.J.	COATES D.J.	HERBIE	Research		09
Cor.D.H.	CORBYN D.H.	HERBIE	Research		09
Cow.R.S.	COWAN R.S.	HERBIE	Research		09
Cra.C.E.	CRANE C.E.	COMO	Research		09
Cra.R.J.	CRANFIELD R.J.	HERBIE	Research		09
Cro.D.S.	CROMBIE D.S.	DWELLGP	Research		09
Cul.M.J.	CULLY M.J.	COMO	Research		09
Dav.E.M.	DAVISON E.M.	COMO	Research		09
DeT.P.	DE TORES P.J.	WAWRC	Research		09
Dev.D.M.	DEVLIN D.M.	?DWELLG	Research		09
Dic.S.G.	DICK S.G.	MANJI	Research		09
Dil.M.J.	DILLON M.J.	DWELLGP	Research		09
Dor.J.H.	DORLANDT J.H.	COMO	Research		09
Dum.I.C.	DUMBRELL I.C.	BUSLTO	Research		09
Eyg.J.B.	EYGENRAAM J.B.	?HERBIE	Research		09
F					
Fai.R.G.	FAIRMAN R.G.	DWELLGP	Research		09
Fan.C.S.	FANG CHENG SHAH	HERBIE			
Far.C.J.	FARRELL C.J.	WAWRC	Research		09
Far.J.D.	FARR J.D.	MANJI	Research		09
Fau.K.A.	FAUNT K.A.	?DWELLG	Research		09
Fri.G.R.	FRIEND G.R.	WAWRC	Research		09
Fri.J.A.	FRIEND J.A.	WAWRC	Research		09
Ful.P.J.	FULLER P.J.	WAWRC	Research		09
Gib.N.	Gibson N.	WAWRC	Research		09
Gil.R.C.	GILES R.C.	DWELLGP	Research		09
Gio.P.G.	GIOIA P.G.	WAWRC	Research		09
Glo.B.R.	GLOSSOP B.R.	?COMO	Research		09
God.G.R.	GODFREY G.R.	?COMO	Research		09
Hal.S.A.	HALSE S.A.	WAWRC	Research		09
Ham.V.L.	HAMLEY V.L.	HERBIE	Research		09
Han.W.R.	HANKS W.R.	?COMO	Research		09

Off_code	Off_name	Locn_code	Area	Phone	Area_code
Har.J.M.	HARVEY J.M.	WAWRC	Research		09
Har.R.J.	HARPER R.J.	ALBANY	Research		09
Has.B.N.	HASSON B.N.	?COMO	Research		09
Hea.J.S.	HEALEY J.S.	MANJI	Research		09
Hen.J.W.	HENDERSON J.W.	?COMO	Research		09
Hes.P.J.	HESSLEWOOD P.J.	WAWRC	Research		09
Hew.P.J.	HEWETT P.J.	MANJI	Research		09
Hic.R.B.	HICK R.B.	WAWRC	Research		09
Hin.R.A.	HINGSTON R.A.	BUSLTO	Research		09
Hol.P.	HOLLINGS PETER	COMO	Compsvc		
Hop.A.J.	HOPKINS A.J.	WAWRC	Research		09
Hop.S.D.	HOPPER S.D.	WAWRC	Research		09
Imm.J.	IMMES J.	WAWRC	Research		09
Ini.G.B.	INIONS G.B.	?COMO	Research		09
Jen.P.J.	JENKINS P.J.	BUSLTO	Research		09
Kei.G.J.	KEIGHERY G.J.	WAWRC	Research		09
Ken.K.F.	KENNEALLY K.F.	HERBIE	Research		09
Kin.J.E.	KINNEAR J.E.	WAWRC	Research		09
Kin.J.K.	KINAL J.K.	DWELLGP	Research		09
Kni.K.J.	KNIGHT K.J.	?HERBIE	Research		09
Koc.B.L.	KOCH B.L.	HERBIE	Research		09
L					
Lan.J.A.	LANE J.A.	WAWRC	Research		09
Lan.M.A.	LANGLEY M.A.	WAWRC	Research		09
Lan.N.S.	LANDER N.S.	HERBIE	Research		09
Lef.T.D.	LEFTWICH T.D.	WAWRC	Research		09
Les.B.G.	LES B.G.	?DWELLG	Research		09
Lew.M.R.	LEWIS M.R.	COMO	Research		09
Lid.G.L.	LIDDELOW G.L.	MANJI	Research		09
Lyo.M.N.	LYONS M.N.	WAWRC	Research		09
Mac.T.D.	MACFARLANE T.D.	HERBIE	Research		09
Mai.K.G.	MAISEY K.G.	WAWRC	Research		09
Mar.N.G.	MARCHANT N.G.	HERBIE	Research		09
Mas.B.R.	MASLIN B.R.	HERBIE	Research		09
Mas.M.L.	MASON M.L.	DWELLGP	Research		09
Maz.R.A.	MAZANEC R.A.	DWELLGP	Research		09
Mcc.W.L.	MCCAW W.L.	MANJI	Research		09
Mcd.D.G.	MCDONALD D.G.	?COMO	Research		09
Mcd.M.E.	MCDONALD M.E.	?COMO	Research		09
Mce.S.	MCEVOY SARAH	COMO	Wildlife		
McG.J.D.	MCGRATH J.D.	BUSLTO	Research		09
McK.N.L.	MCKENZIE N.L.	WAWRC	Research		09
McP.I.J.	MCPHARLIN I.J.	?HERBIE	Research		09
Mer.M.J.	MERRIFIELD M.J.	COMO	Research		09
Mit.D.S.	MITCHELL D.S.	WAWRC	Research		09
Mon.J.	MONCK JENNY	?MANJI	Research		09
Moo.R.W.	MOORE R.W.	BUSLTO	Research		09
Mor.B.R.	MORGAN B.R.	DWELLGP	Research		09
Mor.K.D.	MORRIS K.D.	WAWRC	Research		09
Mun.D.R.	MUNRO D.R.	WAWRC	Research		09
Narrogin	CALM - NARROGIN	NARROGI			
Nea.J.E.	NEAL J.E.	MANJI	Research		09
Onu.M.L.	ONUS M.L.	WAWRC	Research		09
Par.C.M.	PARKER C.M.	HERBIE	Research		09
Pat.S.J.	PATRICK S.J.	HERBIE	Research		09
Pea.D.J.	PEARSON D.J.	WAWRC	Research		09
Pea.G.B.	PEARSON G.B.	WAWRC	Research		09
Per.G.	PERRY GILLIAN	HERBIE	Research		09
Pet.N.E.	PETTIT N.E.	?COMO	Research		09
Pig.J.P.	PIGOTT J.P.	NARROGI	Research		09
Pit.J.A.	PITCHER J.A.	?COMO	Research		09
Por.C.C.	PORTLOCK C.C.	DWELLGP	Research		09
Pre.M.A.	PREE M.A.	MANJI	Research		09

NP_ID	Name	Class
CAPE RANGE	Cape Range National Park	
YALGORUP	Yalgorup N.P.	
YANCHEP	Yanchep national park	

Office	Address	Phone	Area _Code
Albany	44 Serpentine Road, Albany, 6330	417133	098
Bunbury	North Boyanup Road, P.O. BOX 733, Bunbury, 6230	254300	097
Busselton		521677	097
Dwellingup		5381001	
Exmouth		491676	099
Fitzroy Crossing		915030	091
Geraldton	7th Floor, Town Towers, P.O. BOX 72, Geraldton 6530	215955	099
Harvey		291505	097
Jarrahdale		5255004	
Kalgoorie	Hannan Street, P.O. BOX 366, Kalgoorie , 6430	212677	090
Karratha	Welcome Road,S.G.I.O. Building,P.O. BOX 835 , Karratha , 6714	868288	091
Kelmscott	3044 Albany Highway, Kelmscott, 6111	3905977	09
Kununurra	Konkerberry Drive,P.O. box 942 Kununurra, 6743	680200	091
Manjimup	Brain Street, Manjimup, 6258	711988	097
Mount Pleasant	5 The Esplanade, Mount Pleasant, 6153	3460777	09
Mundaring		2951955	
Nannup		561101	097
Narrogin	Hough Street, P.O. BOX 100, Narrogin, 6312	811113	098
Pemberton		761207	097
Walpole		401027	098
Wanneroo		4051222	09

Road_Type	Description	Class
BITUMEN	Bitumen	
CEMENT		
DIRT		
GRAVEL	Gravel	
METAL	Blue metal	
PAVED	Paved	

Soil_Type	Description
CLAY	
LATERRITE	
LIMESTON	
LOAM	
MUD	
ROCK	
SAND	
SANDSTO	

Supp_code	Bus_name	Contact	Phone	Area_code	Address_1
AMS	Applied MicroSystems	Ashley McCracken	3215900	09	Unit 6/325 Harborne St,
BORLAND	Borland Pacific	David Loughhead		09	Trish Elkington (03 521 355
COMPCORP	Computer CORP Pty Ltd	Craig DeSouza	3222822	09	392 Oxford St, Mt. Hawthor
COMPVILL	Computer Village	peter (technical)	2279988	09	(Jackie Greenshields - Tos
CONCEPT	Concept Audio Visual Pty Ltd	Geoff Brown	2212131	09	
COPYSPEC	Copispec	Jackie Greenshield	3626155	09	103 Burswood Rd, Vic Park
DALCON	Dalcon Electronics	Louis Pang 01894507	2716200	09	4 Weld Court, Morley, 6062
HEARNE	Hearne Marketing Software	Margaret Atkins	8661766	03	458 St Kilda Rd,
HISOFT	Hisoft Computers	Anna Mudrock bignos	4817900	09	11 Ventnor St
JBE	JAYs Business Equipment	John Doherty			
MICROAUS	Micro Australia - Upgrades HG		8828837	02	
MICROSOF	Microsoft				
MONCRIEF	MONCRIEFF				
OSBORNE	Osborne computers pty ltd	tina & Aldo			
PCC	Perfect Computer Solutions	Wynn & Ken Stranger	2752700	09	3 Growse Pl., Noranda 606
PLAZAC	Plaza cameras				
RSAP	Remote sensing app cntre				
SAS	SAS Institute Aust. Pty Ltd		9082244	02	Private Bag 7, Neutral Bay,
SSUPP	State supplies	pauline hardwick			
TEKPAC	Tek Pacific - Upgrades HG		6638700	02	
TOSHIBAC	Toshiba - pc perth	Mason Wong	4469700	09	Computing services
TOSHIBAH	Toshiba - hotline	WADIH			fax: 02 8051903
TOSHIBAT	Toshiba - Technical Svces	Paul Ower	8878014	02	

1	Address_2	Address_3	
St, 521 3555) awthorn Toshiba ic Park, y, 6062 da 6062 ral Bay,	Osborne park, W.A. 578 Murray St., W. Perth Morley West Perth N.S.W. 09 4469700 (answering service 008 023596	Charlotte King (02 953 9500) (Liz Flatters) W.A. 6100 Suite 36, Melbourne 3004 W.A. 6001 fax: 3751815	

Ten_code	Ten_Desc
CATR	CALM Act Timber Reserve
CP	Conservation Park
MNR	Marine Nature Reserve
MP	Marine Park
NP	National Park
NR	Nature Reserve
OR	Other Reserves
SF	State Forest

Town_ID	Name	Class
ALBANY	Albany	CITY
BUNBURY	Bunbury	CITY
GERALDTON	Geraldton	CITY
KARRATHA	Karratha	TOWN
MANJIMUP	Manjimup	TOWN
NANNUP	Nannup	SMALL TO
PERTH	Perth	CITY

Veg_code	Veg_Desc
HEATH MALLEY RAIN FORES	Heath (Coastal)

Site_code	Site_Name	Gen_area	District_code	Region_code	Status	Coll_Off	Coll date	Sup_offi
Alexander	Alexander Morrison							
Avon	Avon Valley							
Badgingarra	Badgingarra							
Barrabup pool	Barrabup pool		Nannup	Central Forest				
Beedelup	Beedelup							
Black Point	Black Point		Nannup	Central Forest				
Blackboy	Blackboy							
Blackwood	Blackwood River							
Bob's H	Bob's Hollow							
Boorabbin	Boorabbin							
Boranup B	Boranup Beach							
Boranup C	Boranup Campground							
Boranup D P S	Boranup Drive Picnic Sites							
Boranup F	Boranup Forest							
Boranup S L	Boranup Scenic Lookout							
Bridgetown J P	Bridgetown Jarrah Park							
Brockman	Brockman							
Bunker Bay	Bunker Bay							
Canal R	Canal Rocks							
Cane break	Cane break		Nannup	Central Forest				
Cane break P	Cane break Pool							
Cape A	Cape Arid							
Cape LG	Cape LeGrand							
Cape Naturaliste	Cape Naturaliste							
Cape R	Cape Range							
Claymore	Claymore							
Collie	Collie River							
Collier	Collier Range							
Conto F	Conto Field							
Conto S	Conto Spring							
Cosy Corner	Cosy Corner							
D'Entrecasteaux	D'Entrecasteaux							
Drover's	Drover's Cave							
Dryandra	Dryandra							
Drydale	Drydale River							
Dwellingup	Dwellingup							
Ellen Brook	Ellen Brook							
Eucla	Eucla							
Ferndale	Ferndale Picnic Site							
Fitzgerald	Fitzgerald River							

Site_code	Site_Name	Gen_area	District_code	Region_code	Status	Coll_Off	Coll date	Sup_offi
Frank	Frank Hann							
Geikie	Geikie Gorge							
Gervasse	Gervasse Picnic Area							
Glen Mervyn Dam	Glen Mervyn Dam							
Golden Valley	Golden Valley							
Goongarrie	Goongarrie							
Gooseberry	Gooseberry Hill							
Greenmount	Greenmount							
Grimwade P	Grimwade Pool							
Hamel	Hamel							
Hamelin Bay	Hamelin Bay							
Hamersley	Hamersley Range							
Harvey	Harvey							
Harvey B J	Harvey Big Jarrah							
Harvey F	Harvey Falls							
Hassell	Hassell							
Hidden	Hidden Valley							
Hoffman	Hoffman Old Mill							
Honeymoon Pool	Honeymoon Pool		Collie	Central Forest				
Injidup	Injidup							
Jarrahdale	Jarrahdale							
John	John Forrest							
Kalamunda	Kalamunda							
Kalbarri	Kalbarri							
Kangaroo	Kangaroo Nature Trail							
Karri Gully	Karri Gully		Nannup	Central Forest				
Lake Jasper	Lake Jasper		Nannup	Central Forest				
Lane_Poole	Lane_Poole Reserve							
Layman P S	Layman Picnic Site							
Leewin_Naturaliste	Leewin_Naturaliste							
Lennard D	Lennard Drive							
Lesmurdie	Lesmurdie Falls							
Logue B C	Logue Brook Dam_Caravan pa							
Logue B R	Logue Brook Dam_The Rock							
Ludlow	Ludlow Forest							
Ludlow F P S	Ludlow Forest Picnic Site							
Lyall's P A	Lyall's Picnic Area							
Manjimup	Manjimup							
Millstream_Chichester	Millstream_Chichester							
Moore	Moore River							
Moses Rock	Moses Rock							

Site_code	Site_Name	Gen_area	District_code	Region_code	Status	Coll_Off	Coll date	Sup_offi
Mundaring	Mundaring							
Nambung	Nambung							
Nannup A	Nannup Arboretum							
Neerabup	Neerabup							
Palmer	Palmer Rd. Picnic Sites							
Peak	Peak Charles							
Pemberton	Pemberton							
Point R C	Point Road Campground							
Porongurup	Porongurup							
Quindanning	Quindanning Rd./Harvey River							
Red Gully	Red Gully		Nannup	Central Forest				
Rocky C	Rocky Crossing							
Rudall	Rudall River							
SD_WB	Scenic Drive_Westralia Block							
Saddlebank	Saddlebank							
Sandpit	Sandpit Picnic Area							
Scott	Scott							
Scott R	Scott River Ski Area							
Serpentine	Serpentine							
Shannon	Shannon Forest							
Sir James	Sir James Mitchell							
Skippy R	Skippy Road							
South Coast	South Coast		Nannup	Central Forest				
Stirling D	Stirling Dam							
Stirling R	Stirling Range							
Stockton	Stockton							
Stokes	Stokes							
Sue's Bridge	Sue's Bridge							
Sugarloaf	Sugarloaf							
Tathra	Tathra							
The Ferns	The Ferns		Collie	Central Forest				
Torndirrup	Torndirrup							
Towerrinning L	Towerrinning Lake							
Tunnel	Tunnel Creek							
Walpole	Walpole							
Walpole N	Walpole Nornalup							
Walyunga	Walyunga							
Wanneroo	Wanneroo							
Warner Glen	Warner Glen							
Warren	Warren							
Water W	Water Wheel							

Site_code	Site_Name	Gen_area	District_code	Region_code	Status	Coll_Off	Coll date	Sup_offi
Watheroo	Watheroo							
Wellington Dam	Wellington Dam		Collie	Central Forest				
Wellington Dam B	Wellington Dam Banks							
Wellington Dam W	Wellington Dam Wall							
West	West Cape Howe							
Whittakers	Whittakers Mill							
William	William Bay							
Willow Springs	Willow Springs		Nannup	Central Forest				
Willow Springs A	Willow Springs Arboretum							
Willowdale	Willowdale Arboretum							
Windjana	Windjana Gorge							
Wolf	Wolf Creek Crater							
Wrights Bridge	Wrights Bridge		Nannup	Central Forest				
Yalgorup	Yalgorup							
Yalgorup L	Yalgorup Lake Haywood							
Yalgorup P	Yalgorup Preston							
Yalgorup T	Yalgorup Tims Thicket							
Yanchep	Yanchep							

[illegible]

GMT Plan Ref	VRM	INT_Plan Ref	Future Plans	

Fac_code	Asset_code
Accommodation	FLAT
Accommodation	HOUSE
Barbecues	BBQ GAS
Barbecues	BBQ WOOD
Barbecues_gas/	
Barbecues_woo	
Bins	
Birdhides	
Boardwalks/Brid	
Boat L	
Camp_'walk-in'	
Campervan/cara	
Canoeing	
Disabled	
Drinking Water	
Fees	
Fishing	
Golf	
Information	
Kiosk/shops	
Lookout/viewing	
Ovals	
Picnic	
Playground/equi	
Pool	
Seats	
Shelters/huts	
Showers	
Signs	
Swimming	
Toilets	
Vehical	
Visitor C	
Visitor R	
Walking	
Water	

Asset_no	Seqno	Activity	Activity_dte	Cost	Off_code	Supp_code
AVON/0000	1	New Installat'n		200.00		
AVON/0000	2	Prev. Maint.				
AVON/0000	1	Valuation		100.00		
COSY/0000	1	New Installat'n		1,000.00		

13 January 1994

S_ASSETS

Page 1

Asset_no	Site_code	Asset_code	Asset_locn	Value	Date_value	Off_code	Supp_code
AVON/0000	Avon	BBQ GAS					
AVON/0000	Avon	BILLBOARD					
AVON/0000	Avon	BBQ WOOD					
COSY/0000	Cosy Corner	BBQ WOOD					
COSY/0000	Cosy Corner	BBQ WOOD					
COSY/0000	Cosy Corner	BILLBOARD					

Site_Code	Facility	Number
Avon	Barbecues_wood	
Alexander	Camp_'walk-in'	
Avon	Camp_'walk-in'	
Avon	Toilets	
Avon	Canoeing	
Badgingarra		
Blackwood	Camp_'walk-in'	
Blackwood	Barbecues_wood	
Blackwood	Toilets	
Blackwood	Canoeing	
Blackwood	Fishing	
Blackwood	Swimming	
Boranup	Camp_'walk-in'	
Boranup	Barbecues	
Boranup	Toilets	
Cape A	Camp_'walk-in'	
Cape A	Campervan/caravan	
Cape A	Drinking Water	
Cape A	Barbecues	
Cape A	Toilets	
Cape A	Fishing	
Cape A	Swimming	
Cape LG	Camp_'walk-in'	
Cape LG	Campervan/caravan	
Cape LG	Drinking Water	
Cape LG	Barbecues	
Cape LG	Disabled	
Cape LG	Toilets	
Cape LG	Fishing	
Cape LG	Swimming	
Cape R	Camp_'walk-in'	
Cape R	Campervan/caravan	
Cape R	Drinking Water	
Cape R	Toilets	
Cape R	Fishing	
Cape R	Swimming	
Collie	Camp_'walk-in'	
Collie	Barbecues	
Collie	Canoeing	
Collie	Fishing	
Collie	Swimming	
D'Entrecasteaux	Camp_'walk-in'	
D'Entrecasteaux	Canoeing	
D'Entrecasteaux	Fishing	
D'Entrecasteaux	Swimming	
Dryandra	Camp_'walk-in'	
Dryandra	Campervan/caravan	
Dryandra	Drinking Water	
Dryandra	Barbecues	
Dryandra	Toilets	
Dwellingup	Camp_'walk-in'	
Dwellingup	Drinking Water	
Dwellingup	Barbecues	
Dwellingup	Toilets	
Dwellingup	Fishing	
Fitzgerald	Camp_'walk-in'	
Fitzgerald	Barbecues	
Fitzgerald	Toilets	
Fitzgerald	Fishing	
Fitzgerald	Swimming	
Geikie	Camp_'walk-in'	
Geikie	Campervan/caravan	
Geikie	Drinking Water	

Site_Code	Facility	Number
Geikie	Barbecues	
Geikie	Toilets	
Geikie	Swimming	
Hamersley	Camp_'walk-in'	
Hamersley	Campervan/caravan	
Hamersley	Drinking Water	
Hamersley	Barbecues	
Hamersley	Toilets	
Hamersley	Swimming	
Harvey	Camp_'walk-in'	
Harvey	Barbecues	
Harvey	Canoeing	
Harvey	Fishing	
Harvey	Swimming	
Jarrahdale	Camp_'walk-in'	
Jarrahdale	Barbecues	
Jarrahdale	Toilets	
John	Drinking Water	
John	Barbecues	
John	Toilets	
John	Swimming	
Kalbarri	Barbecues	
Kalbarri	Toilets	
Kalbarri	Swimming	
Lane_Poole	Camp_'walk-in'	
Lane_Poole	Drinking Water	
Lane_Poole	Barbecues	
Lane_Poole	Toilets	
Lane_Poole	Canoeing	
Lane_Poole	Fishing	
Lane_Poole	Swimming	
Leewin_Naturali	Camp_'walk-in'	
Leewin_Naturali	Campervan/caravan	
Leewin_Naturali	Drinking Water	
Leewin_Naturali	Barbecues	
Leewin_Naturali	Toilets	
Leewin_Naturali	Fishing	
Leewin_Naturali	Swimming	
Lesmurdie	Barbecues	
Ludlow	Barbecues	
Ludlow	Toilets	
Manjimup	Drinking Water	
Manjimup	Barbecues	
Manjimup	Disabled	
Manjimup	Fishing	
Manjimup	Swimming	
Millstream_Chic	Camp_'walk-in'	
Millstream_Chic	Campervan/caravan	
Millstream_Chic	Barbecues	
Millstream_Chic	Toilets	
Mundaring	Drinking Water	
Mundaring	Barbecues	
Mundaring	Disabled	
Mundaring	Toilets	
Nambung	Fishing	
Nambung	Swimming	
Peak	Camp_'walk-in'	
Pemberton	Camp_'walk-in'	
Pemberton	Campervan/caravan	
Pemberton	Drinking Water	
Pemberton	Barbecues	
Pemberton	Toilets	
Pemberton	Canoeing	

Site_Code	Facility	Number
Pemberton	Fishing	
Pemberton	Swimming	
Porongurup	Barbecues	
Porongurup	Toilets	
Scott	Canoeing	
Scott	Fishing	
Scott	Swimming	
Serpentine	Drinking Water	
Serpentine	Barbecues	
Serpentine	Disabled	
Serpentine	Toilets	
Serpentine	Swimming	
Shannon	Camp_'walk-in'	
Shannon	Campervan/caravan	
Shannon	Drinking Water	
Shannon	Barbecues	
Shannon	Disabled	
Shannon	Toilets	
Shannon	Fishing	
Shannon	Swimming	
Stirling	Camp_'walk-in'	
Stirling	Drinking Water	
Stirling	Barbecues	
Stirling	Disabled	
Stirling	Toilets	
Stokes	Camp_'walk-in'	
Stokes	Toilets	
Stokes	Fishing	
Stokes	Swimming	
Torndirrup	Fishing	
Torndirrup	Swimming	
Tunnel	Barbecues	
Tunnel	Toilets	
Walpole	Barbecues	
Walpole	Toilets	
Walpole	Canoeing	
Walpole	Fishing	
Walpole	Swimming	
Walpole N	Camp_'walk-in'	
Walpole N	Campervan/caravan	
Walpole N	Drinking Water	
Walpole N	Barbecues	
Walpole N	Toilets	
Walpole N	Canoeing	
Walpole N	Fishing	
Walpole N	Swimming	
Walyunga	Camp_'walk-in'	
Walyunga	Campervan/caravan	
Walyunga	Drinking Water	
Walyunga	Barbecues	
Walyunga	Toilets	
Walyunga	Canoeing	
Wanneroo	Barbecues	
Warren	Camp_'walk-in'	
Warren	Barbecues	
Warren	Canoeing	
Warren	Fishing	
Warren	Swimming	
Watheroo	Toilets	
West	Fishing	
West	Swimming	
William	Barbecues	
William	Disabled	

Site_Code	Facility	Number
William	Toilets	
William	Fishing	
William	Swimming	
Windjana	Camp 'walk-in'	
Windjana	Campervan/caravan	
Windjana	Drinking Water	
Windjana	Barbecues	
Windjana	Toilets	
Yalgorup	Barbecues	
Yalgorup	Toilets	
Yalgorup	Canoeing	
Yalgorup	Fishing	
Yalgorup	Swimming	
Yanchep	Drinking Water	
Yanchep	Barbecues	
Yanchep	Disabled	
Yanchep	Toilets	
Yalgorup P	Barbecues	
Yalgorup P	Swimming	
Yalgorup P	Toilets	
Yalgorup L	Barbecues	
Yalgorup L	Toilets	
Whittakers	Barbecues	
Hamel	Drinking Water	
Willowdale	Barbecues	
Hoffman	Barbecues	
Hoffman	Fishing	
Hoffman	Swimming	
Hoffman	Toilets	
Hoffman	Drinking Water	
Hoffman	Camp 'walk-in'	
Logue B R	Barbecues	
Logue B R	Swimming	
Logue B R	Drinking Water	
Saddlebank	Barbecues	
Saddlebank	Fishing	
Saddlebank	Swimming	
Kangaroo	Walking	
Logue B C	Barbecues	
Logue B C	Fishing	
Logue B C	Canoeing	
Logue B C	Swimming	
Logue B C	Toilets	
Logue B C	Drinking Water	
Logue B C	Boat L	
Logue B C	Campervan/caravan	
Blackboy	Barbecues	
Blackboy	Walking	
Harvey F	Fishing	
Harvey F	Drinking Water	
Rocky C	Barbecues	
Rocky C	Fishing	
Rocky C	Swimming	
Rocky C	Drinking Water	
Quindanning	Barbecues	
Quindanning	Fishing	
Quindanning	Drinking Water	
Stirling D	Barbecues	
Stirling D	Fishing	
Stirling D	Canoeing	
Stirling D	Walking	
Stirling D	Drinking Water	
Stirling D	Lookout/viewing	

Site_Code	Facility	Number
Gervasse	Barbecues	
Sandpit	Barbecues	
Honeymoon Poo	Barbecues	
Honeymoon Poo	Fishing	
Honeymoon Poo	Swimming	
Honeymoon Poo	Canoeing	
Honeymoon Poo	Walking	
Honeymoon Poo	Toilets	
Honeymoon Poo	Drinking Water	
Honeymoon Poo	Camp_'walk-in'	
The Ferns	Barbecues	
The Ferns	Fishing	
The Ferns	Swimming	
The Ferns	Walking	
The Ferns	Drinking Water	
The Ferns	Camp_'walk-in'	
Lennard D	Barbecues	
Lennard D	Fishing	
Lennard D	Swimming	
Lennard D	Canoeing	
Lennard D	Drinking Water	
Lennard D	Camp_'walk-in'	
Wellington Dam	Barbecues	
Wellington Dam	Walking	
Wellington Dam	Toilets	
Wellington Dam	Drinking Water	
Wellington Dam	Camp_'walk-in'	
Wellington Dam	Lookout/viewing	
Wellington Dam	Campervan/caravan	
Wellington Dam	Swimming	
Wellington Dam	Drinking Water	
Palmer	Barbecues	
Palmer	Fishing	
SD_WB	Barbecues	
SD_WB	Fishing	
Stockton	Barbecues	
Stockton	Fishing	
Stockton	Swimming	
Stockton	Canoeing	
Stockton	Toilets	
Stockton	Drinking Water	
Stockton	Boat L	
Lyall's P A	Barbecues	
Glen Mervyn Da	Barbecues	
Glen Mervyn Da	Fishing	
Glen Mervyn Da	Swimming	
Glen Mervyn Da	Canoeing	
Glen Mervyn Da	Toilets	
Glen Mervyn Da	Drinking Water	
Glen Mervyn Da	Camp_'walk-in'	
Glen Mervyn Da	Boat L	
Towerrinning L	Barbecues	
Towerrinning L	Fishing	
Towerrinning L	Swimming	
Towerrinning L	Canoeing	
Towerrinning L	Toilets	
Towerrinning L	Boat L	
Grimwade P	Barbecues	
Grimwade P	Swimming	
Grimwade P	Drinking Water	
Golden Valley	Barbecues	
Golden Valley	Walking	
Golden Valley	Toilets	

Site_Code	Facility	Number
Golden Valley	Lookout/viewing	
Golden Valley	Disabled	
Ferndale	Barbecues	
Ferndale	Fishing	
Ferndale	Drinking Water	
Wrights Bridge	Barbecues	
Wrights Bridge	Fishing	
Wrights Bridge	Swimming	
Wrights Bridge	Canoeing	
Wrights Bridge	Toilets	
Wrights Bridge	Drinking Water	
Wrights Bridge	Camp_'walk-in'	
Karri Gully	Barbecues	
Karri Gully	Walking	
Karri Gully	Toilets	
Bridgetown J P	Barbecues	
Bridgetown J P	Walking	
Bridgetown J P	Toilets	
Nannup A	Barbecues	
Nannup A	Toilets	
Barrabup pool	Barbecues	
Barrabup pool	Fishing	
Barrabup pool	Swimming	
Barrabup pool	Canoeing	
Barrabup pool	Toilets	
Barrabup pool	Drinking Water	
Cane break	Barbecues	
Cane break	Walking	
Cane break	Toilets	
Sue's Bridge	Barbecues	
Sue's Bridge	Fishing	
Sue's Bridge	Swimming	
Sue's Bridge	Canoeing	
Sue's Bridge	Toilets	
Sue's Bridge	Drinking Water	
Sue's Bridge	Camp_'walk-in'	
Sue's Bridge	Boat L	
Warner Glen	Barbecues	
Warner Glen	Fishing	
Warner Glen	Swimming	
Warner Glen	Canoeing	
Warner Glen	Boat L	
Scott R	Barbecues	
Scott R	Fishing	
Scott R	Swimming	
Scott R	Canoeing	
Scott R	Toilets	
Water W	Barbecues	
Water W	Fishing	
Water W	Walking	
Water W	Toilets	
Skippy R	Fishing	
Cosy Corner	Fishing	
Cosy Corner	Swimming	
Cosy Corner	Toilets	
Hamelin Bay	Barbecues	
Hamelin Bay	Fishing	
Hamelin Bay	Swimming	
Hamelin Bay	Canoeing	
Hamelin Bay	Toilets	
Hamelin Bay	Drinking Water	
Hamelin Bay	Boat L	
Hamelin Bay	Campervan/caravan	

Site_Code	Facility	Number
Boranup C	Barbecues	
Boranup C	Toilets	
Boranup C	Camp_'walk-in'	
Boranup S L	Barbecues	
Boranup S L	Toilets	
Boranup S L	Lookout/viewing	
Boranup D P S	Barbecues	
Point R C	Barbecues	
Point R C	Toilets	
Point R C	Camp_'walk-in'	
Conto F	Barbecues	
Conto F	Walking	
Conto F	Toilets	
Conto F	Camp_'walk-in'	
Conto F	Disabled	
Boranup B	Fishing	
Boranup B	Swimming	
Conto S	Barbecues	
Conto S	Swimming	
Conto S	Toilets	
Bob's H	Fishing	
Cane break P	Barbecues	
Cane break P	Fishing	
Cane break P	Swimming	
Cane break P	Toilets	
Cane break P	Drinking Water	
Cane break P	Camp_'walk-in'	
Ellen Brook	Fishing	
Ellen Brook	Walking	
Ellen Brook	Toilets	
Moses Rock	Fishing	
Moses Rock	Swimming	
Injidup	Barbecues	
Injidup	Fishing	
Injidup	Swimming	
Injidup	Toilets	
Injidup	Camp_'walk-in'	
Canal R	Barbecues	
Canal R	Fishing	
Canal R	Toilets	
Canal R	Boat L	
Sugarloaf	Fishing	
Cape Naturalist	Walking	
Cape Naturalist	Toilets	
Cape Naturalist	Lookout/viewing	
Bunker Bay	Fishing	
Bunker Bay	Swimming	
Bunker Bay	Walking	
Bunker Bay	Toilets	
Bunker Bay	Lookout/viewing	
Layman P S	Barbecues	
Layman P S	Walking	
Layman P S	Toilets	
Ludlow F P S	Barbecues	
Claymore	Barbecues	

Site_Code	F_code	Comments
Alexander	Landforms C	
Alexander	Beach	
Alexander	Fishing G	
Alexander	History E / A	
Alexander	Landform C	
Alexander	Outcrop G	
Alexander	Fauna	
Alexander	Flora	
Alexander	Views	
Alexander	Wetlands	
Alexander	Lookout	
Alexander	Features G	
Alexander	Woodlands	
Alexander	Valleys R	
Alexander	Forest K	
Alexander	Waterfall	
Alexander	Forest J	
Alexander	Sandplain	
Alexander	Shrubland	
Alexander	Scenery C	
Alexander	Beaches	
Alexander	Reef C	
Alexander	Gorges I	
Alexander	Forest M	
Alexander	Highground S	
Alexander	Dunes C	
Alexander	Caves	
Alexander	Numbats	
Alexander	Woodland W	
Alexander	Wilderness W I	
Alexander	Scarp	
Alexander	Lake/s	
Alexander	Mallee	
Alexander	Sandhills	
Alexander	Cliffs L	
Alexander	Scenery C	
Alexander	Gorges R	
Alexander	Mountains	
Alexander	Sandplain I	
Alexander	Heath	
Alexander	Gorge R A	
Alexander	Country M	
Alexander	Lookout R D	
Alexander	Dams	
Alexander	Flora R	
Alexander	Valley A	
Alexander	Cliffs A	
Alexander	Wildflowers	
Alexander	Lookout S D	
Alexander	Forest T	
Alexander	Trees	
Alexander	Pools	
Alexander	Palms	
Alexander	Country S	
Alexander	Spring i W	
Alexander	Desert P	
Alexander	Outcrops G	
Alexander	Panorama S	
Alexander	Peaks G	
Alexander	System L S	
Alexander	Forest E	
Alexander	Wetlands C	
Alexander	Dunes S	

Site_Code	F_code	Comments
Alexander	Fishing	
Alexander	Waterways	
Alexander	Site H	
Alexander	Forests T	
Alexander	Forests P	
Alexander	Woodland B	
Alexander	Crater M	
Avon	Landforms C	
Avon	Beach	
Avon	Fishing G	
Avon	History E / A	
Avon	Landform C	
Avon	Outcrop G	
Avon	Fauna	
Avon	Flora	
Avon	Views	
Avon	Wetlands	
Avon	Lookout	
Avon	Features G	
Avon	Woodlands	
Avon	Valleys R	
Avon	Forest K	
Avon	Waterfall	
Avon	Forest J	
Avon	Sandplain	
Avon	Shrubland	
Avon	Scenery C	
Avon	Beaches	
Avon	Reef C	
Avon	Gorges I	
Avon	Forest M	
Avon	Highground S	
Avon	Dunes C	
Avon	Caves	
Avon	Numbats	
Avon	Woodland W	
Avon	Wilderness W I	
Avon	Scarp	
Avon	Lake/s	
Avon	Mallee	
Avon	Sandhills	
Avon	Cliffs L	
Avon	Scenery C	
Avon	Gorges R	
Avon	Mountains	
Avon	Sandplain I	
Avon	Heath	
Avon	Gorge R A	
Avon	Country M	
Avon	Lookout R D	
Avon	Dams	
Avon	Flora R	
Avon	Valley A	
Avon	Cliffs A	
Avon	Wildflowers	
Avon	Lookout S D	
Avon	Forest T	
Avon	Trees	
Avon	Pools	
Avon	Palms	
Avon	Country S	
Avon	Spring i W	
Avon	Desert P	

Site_Code	F_code	Comments
Avon	Outcrops G	
Avon	Panorama S	
Avon	Peaks G	
Avon	System L S	
Avon	Forest E	
Avon	Wetlands C	
Avon	Dunes S	
Avon	Fishing	
Avon	Waterways	
Avon	Site H	
Avon	Forests T	
Avon	Forests P	
Avon	Woodland B	
Avon	Crater M	
Badgingarra	Landforms C	
Badgingarra	Beach	
Badgingarra	Fishing G	
Badgingarra	History E / A	
Badgingarra	Landform C	
Badgingarra	Outcrop G	
Badgingarra	Fauna	
Badgingarra	Flora	
Badgingarra	Views	
Badgingarra	Wetlands	
Badgingarra	Lookout	
Badgingarra	Features G	
Badgingarra	Woodlands	
Badgingarra	Valleys R	
Badgingarra	Forest K	
Badgingarra	Waterfall	
Badgingarra	Forest J	
Badgingarra	Sandplain	
Badgingarra	Shrubland	
Badgingarra	Scenery C	
Badgingarra	Beaches	
Badgingarra	Reef C	
Badgingarra	Gorges I	
Badgingarra	Forest M	
Badgingarra	Highground S	
Badgingarra	Dunes C	
Badgingarra	Caves	
Badgingarra	Numbats	
Badgingarra	Woodland W	
Badgingarra	Wilderness W I	
Badgingarra	Scarp	
Badgingarra	Lake/s	
Badgingarra	Mallee	
Badgingarra	Sandhills	
Badgingarra	Cliffs L	
Badgingarra	Scenery C	
Badgingarra	Gorges R	
Badgingarra	Mountains	
Badgingarra	Sandplain I	
Badgingarra	Heath	
Badgingarra	Gorge R A	
Badgingarra	Country M	
Badgingarra	Lookout R D	
Badgingarra	Dams	
Badgingarra	Flora R	
Badgingarra	Valley A	
Badgingarra	Cliffs A	
Badgingarra	Wildflowers	
Badgingarra	Lookout S D	

Site_Code	F_code	Comments
Badgingarra	Forest T	
Badgingarra	Trees	
Badgingarra	Pools	
Badgingarra	Palms	
Badgingarra	Country S	
Badgingarra	Spring i W	
Badgingarra	Desert P	
Badgingarra	Outcrops G	
Badgingarra	Panorama S	
Badgingarra	Peaks G	
Badgingarra	System L S	
Badgingarra	Forest E	
Badgingarra	Wetlands C	
Badgingarra	Dunes S	
Badgingarra	Fishing	
Badgingarra	Waterways	
Badgingarra	Site H	
Badgingarra	Forests T	
Badgingarra	Forests P	
Badgingarra	Woodland B	
Badgingarra	Crater M	
Barrabup pool	Landforms C	
Barrabup pool	Beach	
Barrabup pool	Fishing G	
Barrabup pool	History E / A	
Barrabup pool	Landform C	
Barrabup pool	Outcrop G	
Barrabup pool	Fauna	
Barrabup pool	Flora	
Barrabup pool	Views	
Barrabup pool	Wetlands	
Barrabup pool	Lookout	
Barrabup pool	Features G	
Barrabup pool	Woodlands	
Barrabup pool	Valleys R	
Barrabup pool	Forest K	
Barrabup pool	Waterfall	
Barrabup pool	Forest J	
Barrabup pool	Sandplain	
Barrabup pool	Shrubland	
Barrabup pool	Scenery C	
Barrabup pool	Beaches	
Barrabup pool	Reef C	
Barrabup pool	Gorges I	
Barrabup pool	Forest M	
Barrabup pool	Highground S	
Barrabup pool	Dunes C	
Barrabup pool	Caves	
Barrabup pool	Numbats	
Barrabup pool	Woodland W	
Barrabup pool	Wilderness W I	
Barrabup pool	Scarp	
Barrabup pool	Lake/s	
Barrabup pool	Mallee	
Barrabup pool	Sandhills	
Barrabup pool	Cliffs L	
Barrabup pool	Scenery C	
Barrabup pool	Gorges R	
Barrabup pool	Mountains	
Barrabup pool	Sandplain I	
Barrabup pool	Heath	
Barrabup pool	Gorge R A	
Barrabup pool	Country M	

Site_Code	F_code	Comments
Barrabup pool	Lookout R D	
Barrabup pool	Dams	
Barrabup pool	Flora R	
Barrabup pool	Valley A	
Barrabup pool	Cliffs A	
Barrabup pool	Wildflowers	
Barrabup pool	Lookout S D	
Barrabup pool	Forest T	
Barrabup pool	Trees	
Barrabup pool	Pools	
Barrabup pool	Palms	
Barrabup pool	Country S	
Barrabup pool	Spring i W	
Barrabup pool	Desert P	
Barrabup pool	Outcrops G	
Barrabup pool	Panorama S	
Barrabup pool	Peaks G	
Barrabup pool	System L S	
Barrabup pool	Forest E	
Barrabup pool	Wetlands C	
Barrabup pool	Dunes S	
Barrabup pool	Fishing	
Barrabup pool	Waterways	
Barrabup pool	Site H	
Barrabup pool	Forests T	
Barrabup pool	Forests P	
Barrabup pool	Woodland B	
Barrabup pool	Crater M	
Beedelup	Landforms C	
Beedelup	Beach	
Beedelup	Fishing G	
Beedelup	History E / A	
Beedelup	Landform C	
Beedelup	Outcrop G	
Beedelup	Fauna	
Beedelup	Flora	
Beedelup	Views	
Beedelup	Wetlands	
Beedelup	Lookout	
Beedelup	Features G	
Beedelup	Woodlands	
Beedelup	Valleys R	
Beedelup	Forest K	
Beedelup	Waterfall	
Beedelup	Forest J	
Beedelup	Sandplain	
Beedelup	Shrubland	
Beedelup	Scenery C	
Beedelup	Beaches	
Beedelup	Reef C	
Beedelup	Gorges I	
Beedelup	Forest M	
Beedelup	Highground S	
Beedelup	Dunes C	
Beedelup	Caves	
Beedelup	Numbats	
Beedelup	Woodland W	
Beedelup	Wilderness W I	
Beedelup	Scarp	
Beedelup	Lake/s	
Beedelup	Mallee	
Beedelup	Sandhills	
Beedelup	Cliffs L	

Site_Code	F_code	Comments
Beedelup	Scenery C	
Beedelup	Gorges R	
Beedelup	Mountains	
Beedelup	Sandplain I	
Beedelup	Heath	
Beedelup	Gorge R A	
Beedelup	Country M	
Beedelup	Lookout R D	
Beedelup	Dams	
Beedelup	Flora R	
Beedelup	Valley A	
Beedelup	Cliffs A	
Beedelup	Wildflowers	
Beedelup	Lookout S D	
Beedelup	Forest T	
Beedelup	Trees	
Beedelup	Pools	
Beedelup	Palms	
Beedelup	Country S	
Beedelup	Spring i W	
Beedelup	Desert P	
Beedelup	Outcrops G	
Beedelup	Panorama S	
Beedelup	Peaks G	
Beedelup	System L S	
Beedelup	Forest E	
Beedelup	Wetlands C	
Beedelup	Dunes S	
Beedelup	Fishing	
Beedelup	Waterways	
Beedelup	Site H	
Beedelup	Forests T	
Beedelup	Forests P	
Beedelup	Woodland B	
Beedelup	Crater M	
Black Point	Landforms C	
Black Point	Beach	
Black Point	Fishing G	
Black Point	History E / A	
Black Point	Landform C	
Black Point	Outcrop G	
Black Point	Fauna	
Black Point	Flora	
Black Point	Views	
Black Point	Wetlands	
Black Point	Lookout	
Black Point	Features G	
Black Point	Woodlands	
Black Point	Valleys R	
Black Point	Forest K	
Black Point	Waterfall	
Black Point	Forest J	
Black Point	Sandplain	
Black Point	Shrubland	
Black Point	Scenery C	
Black Point	Beaches	
Black Point	Reef C	
Black Point	Gorges I	
Black Point	Forest M	
Black Point	Highground S	
Black Point	Dunes C	
Black Point	Caves	
Black Point	Numbats	

Site_Code	Geology
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Site_Code	Landform
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Site_Code	S_Image
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Site_Code	Soils	Erodibility
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Site_Code	Nearest_town	Distance	Travel_Time	Access_mthd	Road_type	
	Perth					
	Fremantle					
	Bunbury					
Alexander	Perth	260				
Avon	Perth	80				
Badgingarra	Perth	200				
Beedelup	Perth	340				
Blackwood	Perth	342				
Boorabbin	Perth	450				
Boranup	Perth	306				
Brockman	Perth	340				
Cape	Perth	820				
Cape	Perth	740				
Cape	Perth	1260				
Collie	Perth	190				
Collier	Perth	960				
D'Entrecasteaux	Perth	380				
Drover's	Perth	258				
Dryandra	Perth	195				
Drydale	Perth	3060				
Dwellingup	Perth	97				
Eucla	Perth	1430				
Fitzgerald	Perth	410				
Frank	Perth	520				
Geikie	Perth	2680				
Goongarrie	Perth	700				
Gooseberry	Perth	20				
Greenmount	Perth	25				
Hamersley	Perth	1400				
Harvey	Perth	140				
Hassell	Perth	450				
Hidden	Perth	3300				
Jarrahdale	Perth	54				
John	Perth	25				
Kalamunda	Perth	25				
Kalbarri	Perth	590				
Lane_Poole	Perth	105				
Leewin_Naturali	Perth	260				
Lesmurdie	Perth	22				
Ludlow	Perth	220				
Manjimup	Perth	300				
Millstream_Chic	Perth	1500				
Moore	Perth	120				
Mundaring	Perth	34				
Nambung	Perth	230				
Neerabup	Perth	30				
Peak	Perth	580				
Pemberton	Perth	330				
Porongurup	Perth	480				
Rudall	Perth	1350				
Scott	Perth	360				
Serpentine	Perth	60				
Shannon	Perth	358				
Sir	Perth	340				
Stirling	Perth	450				
Stokes	Perth	600				
Tathra	Perth	300				
Torndirrup	Perth	460				
Tunnel	Perth	2460				
Walpole	Perth	420				
Walpole	Perth	430				
Walyunga	Perth	30				

Site_Code	Nearest_town	Distance	Travel_Time	Access_mthd	Road_type	
	Perth					
	Fremantle					
	Bunbury					
Alexander	Perth	260				
Avon	Perth	80				
Badgingarra	Perth	200				
Beedelup	Perth	340				
Blackwood	Perth	342				
Boorabbin	Perth	450				
Boranup	Perth	306				
Brockman	Perth	340				
Cape	Perth	820				
Cape	Perth	740				
Cape	Perth	1260				
Collie	Perth	190				
Collier	Perth	960				
D'Entrecasteaux	Perth	380				
Drover's	Perth	258				
Dryandra	Perth	195				
Drydale	Perth	3060				
Dwellingup	Perth	97				
Eucla	Perth	1430				
Fitzgerald	Perth	410				
Frank	Perth	520				
Geikie	Perth	2680				
Goongarrie	Perth	700				
Gooseberry	Perth	20				
Greenmount	Perth	25				
Hamersley	Perth	1400				
Harvey	Perth	140				
Hassell	Perth	450				
Hidden	Perth	3300				
Jarrahdale	Perth	54				
John	Perth	25				
Kalamunda	Perth	25				
Kalbarri	Perth	590				
Lane_Poole	Perth	105				
Leewin_Naturali	Perth	260				
Lesmurdie	Perth	22				
Ludlow	Perth	220				
Manjimup	Perth	300				
Millstream_Chic	Perth	1500				
Moore	Perth	120				
Mundaring	Perth	34				
Nambung	Perth	230				
Neerabup	Perth	30				
Peak	Perth	580				
Pemberton	Perth	330				
Porongurup	Perth	480				
Rudall	Perth	1350				
Scott	Perth	360				
Serpentine	Perth	60				
Shannon	Perth	358				
Sir	Perth	340				
Stirling	Perth	450				
Stokes	Perth	600				
Tathra	Perth	300				
Torndirrup	Perth	460				
Tunnel	Perth	2460				
Walpole	Perth	420				
Walpole	Perth	430				
Walyunga	Perth	30				

Site_Code	Nearest_town	Distance	Travel_Time	Access_mthd	Road_type	
Wanneroo	Perth	30				
Warren	Perth	345				
Watheroo	Perth	220				
West	Perth	430				
William	Perth	500				
Windjana	Perth	2500				
Wolf	Perth	3100				
Yalgorup	Perth	120				
Yanchep	Perth	50				

Road_descn	Parking	

Site_Code	Tracks	Track_Type	Track_direction	Track_Time	
		Walk_easy Well signposted Short Track_moderate Defined to unformed Distance Varies Bridle trail_for equestrian us			

Track_Commts	

Site_Code	Lscape_code	Vegetation	Endangered	Dieback_Status
-----------	-------------	------------	------------	----------------

Site_Code	Water	W_Potability	Co
	Sea Inland lake Inlet Estuary River Creek Swamp Pool Waterfall Dam Ephemeral Permanent Other		

Condition	

Site_code	Weeds	Area	Status
-----------	-------	------	--------

Sites	Barbecues	Boat L	Camp_ 'walk-in'	Campervan/caravan	Canoeing	Disabled	Drinking Water	Fishing	Lookout/viewing	Swimming	Toilets	Walking
Alexander			1									
Avon	1		1		1						1	
Badgingarra												
Barrabup pool	1				1		1	1		1	1	
Blackboy	1											1
Blackwood	1		1		1			1		1	1	
Bob's H								1				
Boranup	1		1								1	
Boranup B								1		1		
Boranup C	1		1								1	
Boranup D P S	1											
Boranup S L	1								1		1	
Bridgetown J P	1										1	1
Bunker Bay								1	1	1	1	1
Canal R	1	1						1			1	
Cane break	1										1	1
Cane break P	1		1				1	1		1	1	
Cape A	1		1	1			1	1		1	1	
Cape LG	1		1	1		1	1	1		1	1	
Cape Naturaliste									1		1	1
Cape R			1	1			1	1		1	1	
Claymore	1											
Collie	1		1		1			1		1		
Conto F	1		1			1					1	1
Conto S	1									1	1	
Cosy Corner								1		1	1	
D'Entrecasteaux			1		1			1		1		
Dryandra	1		1	1			1				1	
Dwellingup	1		1				1	1			1	
Ellen Brook								1			1	1
Ferndale	1						1	1				
Fitzgerald	1		1					1		1	1	
Geikie	1		1	1			1			1	1	
Gervasse	1											
Glen Mervyn Dam	1	1	1		1		1	1		1	1	
Golden Valley	1					1			1		1	1
Grimwade P	1						1			1		
Hamel							1					
Hamelin Bay	1	1		1	1		1	1		1	1	
Hamersley	1		1	1			1			1	1	

Sites	Barbecues	Boat L	Camp_'walk-in'	Campervan/caravan	Canoeing	Disabled	Drinking Water	Fishing	Lookout/viewing	Swimming	Toilets	Walking
Harvey	1		1		1			1		1		
Harvey F							1	1				
Hoffman	1		1				1	1		1	1	
Honeymoon Pool	1		1		1		1	1		1	1	1
Injidup	1		1					1		1	1	
Jarrahdale	1		1								1	
John	1						1			1	1	
Kalbarri	1									1	1	
Kangaroo												1
Karri Gully	1										1	1
Lane_Poole	1		1		1		1	1		1	1	
Layman P S	1										1	1
Leewin_Naturaliste	1		1	1			1	1		1	1	
Lennard D	1		1		1		1	1		1		
Lesmurdie	1											
Logue B C	1	1		1	1		1	1		1	1	
Logue B R	1						1			1		
Ludlow	1										1	
Ludlow F P S	1											
Lyll's P A	1											
Manjimup	1					1	1	1		1		
Millstream_Chichester	1		1	1							1	
Moses Rock								1		1		
Mundaring	1					1	1				1	
Nambung								1		1		
Nannup A	1										1	
Palmer	1							1				
Peak			1									
Pemberton	1		1	1	1		1	1		1	1	
Point R C	1		1								1	
Porongurup	1										1	
Quindanning	1						1	1				
Rocky C	1						1	1		1		
SD_WB	1							1				
Saddlebank	1							1		1		
Sandpit	1											
Scott					1			1		1		
Scott R	1				1			1		1	1	
Serpentine	1					1	1			1	1	
Shannon	1		1	1		1	1	1		1	1	
Skippy R								1				

Sites	Barbecues	Boat L	Camp_ 'walk-in'	Campervan/caravan	Canoeing	Disabled	Drinking Water	Fishing	Lookout/viewing	Swimming	Toilets	Walking
Stirling	1		1			1	1				1	
Stirling D	1				1		1	1	1			1
Stockton	1	1			1		1	1		1	1	
Stokes			1					1		1	1	
Sue's Bridge	1	1	1		1		1	1		1	1	
Sugarloaf								1				
The Ferns	1		1				1	1		1		1
Torndirrup								1		1		
Towerrinning L	1	1			1			1		1	1	
Tunnel	1										1	
Walpole	1				1			1		1	1	
Walpole N	1		1	1	1		1	1		1	1	
Walyunga	1		1	1	1		1				1	
Wanneroo	1											
Warner Glen	1	1			1			1		1		
Warren	1		1		1			1		1		
Water W	1							1			1	1
Watheroo											1	
Wellington Dam B							1			1		
Wellington Dam W	1		1	1			1		1		1	1
West								1		1		
Whittakers	1											
William	1					1		1		1	1	
Willowdale	1											
Windjana	1		1	1			1				1	
Wrights Bridge	1		1		1		1	1		1	1	
Yalgorup	1				1			1		1	1	
Yalgorup L	1										1	
Yalgorup P	1									1	1	
Yanchep	1					1	1				1	

CROSSTAB

Features

Category 1	Beach	Beaches	Caves	Cliffs A	Cliffs L	Country M	Country S	Crater M	Dams	Desert P	Dunes C	Dunes S	Fauna	Features G	Fishing	Fishing G
Alexander	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Avon	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Badgingarra	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barrabup pool	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Beedelup	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Black Point	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Blackboy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Blackwood	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bob's H	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boorabbin	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boranup B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boranup C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boranup D P S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boranup F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boranup S L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bridgetown J P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Brockman	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bunker Bay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Canal R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cane break	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cane break P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cape A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cape LG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cape Naturalist	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cape R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Claymore	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Collie	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Collier	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Conto F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Conto S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cosy Corner	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D'Entrecasteaux	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Drover's	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dryandra	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Drydale	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dwellingup	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ellen Brook	1	1	1	1												

Act code	Comment
CLIMBING	
HIKING	
SWIMMING	
WALKING	

Map_no :

Northing :

SITE ACTIVITIES

code : Barrabup pool

Name : Barrabup pool

Status :

Gen_area :

District_code : Nannup

Region_code : Central Forest

Act code	Comment
BOATING	
CANOEING	
CLIMBING	
HIKING	
SWIMMING	
WALKING	

Map_no :

Northing :

SITE ACTIVITIES

code : Beedelup

Name : Beedelup

Status :

Gen_area :

District_code :

Region_code :

Act code	Comment
BOATING	
CANOEING	
CLIMBING	
HIKING	
SWIMMING	
WALKING	

Map_no :

Northing :

SITE ACTIVITIES

code : Black Point

Name : Black Point

Status :

Gen_area :

Report -
activities by
Site
↑
selection based
on site.

ASSETS

code : Alexander Site_Name : Alexander Morrison
District : Region : Status :

Asset no	Asset code	Asset locn	Value	Date value	Off code

ASSETS

code : Avon Site_Name : Avon Valley
District : Region : Status :

Asset no	Asset code	Asset locn	Value	Date value	Off code
AVON/0000	BBO GAS				
AVON/0000	BILLBOARD				
AVON/0000	BBO WOOD				

ASSETS

code : Badgingarra Site_Name : Badgingarra
District : Region : Status :

Asset no	Asset code	Asset locn	Value	Date value	Off code

ASSETS

SITES - NEAREST TOWNS

code : Alexander	Name : Alexander Morrison	Status : ☐
Gen_area :		District_code :
Region_code :		Local Auth :

Perth	Nearest town	Distance	Travel Time	Access method	Road type	Road descr
		250				

SITES - NEAREST TOWNS

code : Avon	Name : Avon Valley	Status : ☐
Gen_area :		District_code :
Region_code :		Local Auth :

Perth	Nearest town	Distance	Travel Time	Access method	Road type	Road descr
		80				

SITES - NEAREST TOWNS

code : Badgingarra	Name : Badgingarra	Status : ☐
Gen_area :		District_code :
Region_code :		Local Auth :

Perth	Nearest town	Distance	Travel Time	Access method	Road type	Road descr
		200				

PARKS

Assets in Balance Bce.

Age Group.

Material Specimen. - treated timber
Form - tree study.

Supplier

Name.

address.

Comment.

Reviews

Name.

No.

Loc.

etc...

Asset types

BBQ.

Bench Seats.

Chape Room.

Chibi frame.

Gym. Frame.

Play Houses.

etc...

Asset Material

Alumi-

Subreglers

Wood.

Geborniet steel Ch.

Asset Form

Keep off the grass / tube
No dogs allowed. / spg,
Roller.
single
Spring
Dual seat

Assets.

Asset #.

Asset code
Asset #.
Asset Desc.

Ref. No.

Surface
Surface code

Date Imp.

Surface Import.

Reserve #

Reserve Name

Date Purchased.

Asset

Supplier.

Eqmt Compliance.

Asset status

Surface "

Accident

Eqmt testig Date.

Surface compliance.

Surface testig date.

Current Value.

All Assets

Asset Name.

Age gr.

Code.

Material 1

Form 2.

Reserve

No

Name.

Locn.

Ward.

Play Area.

Site Plan.

Supplier.

Name.

Add.

Sub. / town / state.

Postcode.

phone.

Fax.

contact -

Swags & Roundabouts.

Asset Description.

Balance Desc.

Ref No. . . .

Surface Desc.

Natural Turf.

Accidents Lpt: 1.

Last Asset Inspection. 04/12/92.

Last Surface Insp. —

Asset Status. Immediate Action

Surface Status —

Eqmt Compliance c. BS 5698 Y/N N

Surface - - - - - N

Reserve Name: Civic Park.

Reserve #: A2.

Supplier: Local Parks.

Current Val: £50

Date Purchased: 11/3/84. Asset #: 48 Cost \$ 250.

Location - Woods - site plan #

Accident.

Budget.

Allocated budget. 50

Date of Expt. 4/7/93

Amount this date. 100.

Balance - 50.

Comment - Remove this balance

Reports.

Assets on Selected Resins.

All records.

All Assets.

Surfaces

Resins

Supplies.

FEATURE ARTICLE



Ask any management or business efficiency expert how to increase productivity and profitability and one of the first points will be the requirement for individuals working together and in groups to share information. Interestingly that is also the premise from which workgroup technology was born.



Over the past 18 months, the word Workgroup has entered the technology lexicon, unfortunately its definition has become a little muddled as players have used the name to label everything from simple PC networks to interoffice mail packages.

But the reality is that Workgroup technology is a great deal more.

The confusion generated about the real definition and use of Workgroup technology has resulted in myths about its effectiveness and application in the wider enterprise environment.

Part of the problem relates to the fact that few vendors are able to offer a true workgroup enabled product which does not lock the user into a proprietary system that requires a great deal of customised development and thereby defeating the purpose of the original information sharing premise.

Workgroup computing has grown out of the need to provide more 'mobile' data sharing.

The portable computer, with its associated communication devices such as the modem, has gone part of the way. However, this does not address wider and more complex data requirements.

Take for example the scenario of an insurance representative in the field who is selling financial products and services to customers and needs to access a central database to be able to quote updated market figures.

Usually this process is undertaken via floppy disks or via the fax machine with the obvious associated logistic problems.

The bottom line that the exchange of corporate critical information needs careful management.

Borland has addressed this with its Workgroup technology, which has now been incorporated into products like Quattro Pro and Paradox and is available in the Borland Workgroup Enabling Kit which allows developers to upgrade other Borland and non-Borland product to the workgroup environment.

'Borland is here now with a flexible, scalable workgroup solution while others are still in the pipeline,' Borland Australia's Managing Director, Belinda Hanna, says.

'The basis of our workgroup offerings is that they are based around our Object Exchange and client/server philosophies. Borland's implementation of workgroup is very powerful because it extends from the user level up. In other words it provides a scal-

Borland Workgroups Offering Real World F

able solution allowing it to be utilised by two people or a large corporation.

'Other offerings lock the user into a proprietary system which requires the learning of new technology and a large dollar investment in installation and implementation. Borland has taken the view that we will not lock in users but rather provide an 'open' system offering the flexibility for the users of other vendors' products to become workgroup aware.'

'Borland is here now with a workgroup solution while others are still in the pipeline'

The implementation of workgroup together with SQL connectivity is a major plank in the Borland strategy.

While the usage of client/server is still relatively small the concept has high mind share and is rapidly gaining popularity. A good example of the way in which new technologies and processes are adopted can be seen in the network arena. For many users networks, because of their initial instability, were not seen as a good bet, however, we are now reliant on networking technology.

For client/server the same process is applying.

Borland now has one of the most complete client/server solutions ranging from the desktop to middle-ware, the Integrated Databases API (IDAPI), through to the server where Borland's InterBase SQL server is now making strong inroads into the traditional market base.

OBJECT EXCHANGE AND MIDDLEWARE

At the centre of workgroup technology is the ability to share data and applications. Borland has answered this requirement with the Object Exchange (OBEX) which is the communications agent to the rest of the world through most of the major messaging and networking services.

OBEX supports sharing and access to information across a variety of connectivity solutions, whether they are continuously available or only occasionally connected.

OBEX is not in itself an application but rather it functions as middleware by interacting with the operating system and messaging services to provide applications with automatic information exchange capability.

WORKGROUP TECHNOLOGY

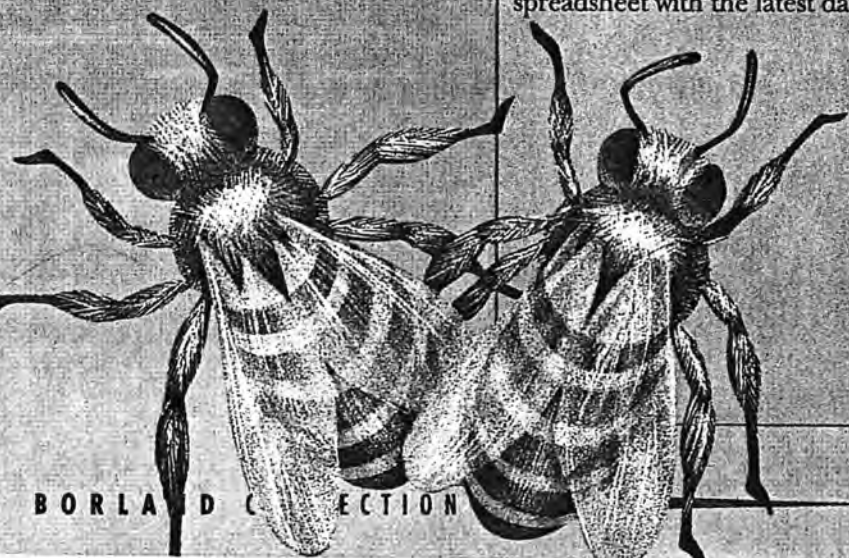
In The Field

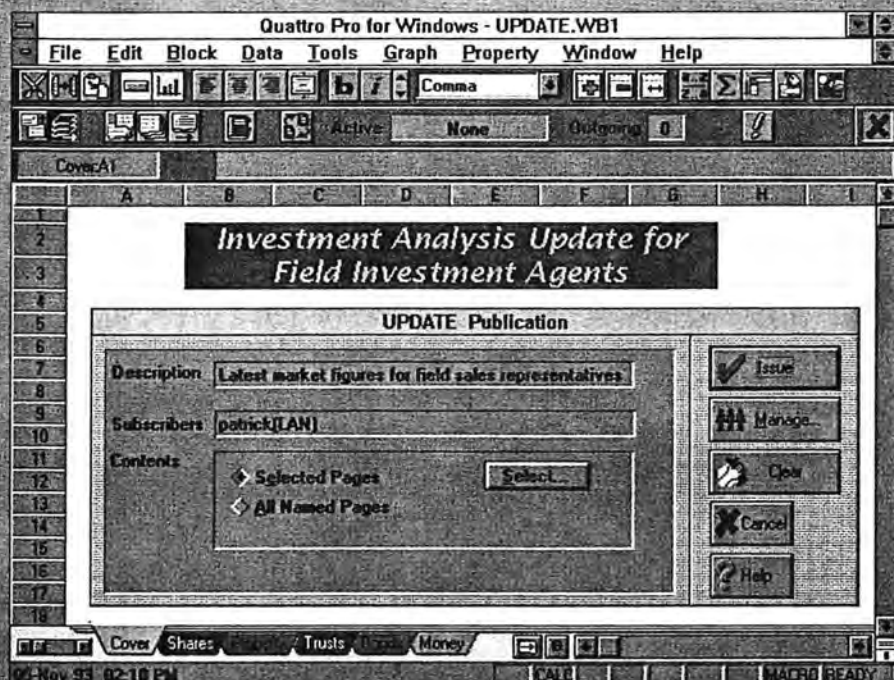
The following example will help you understand how Borland's Workgroup Technology can be used in different environments:

THE SALES FORCE

A pharmaceuticals company has 15 sales representatives servicing Eastern Australia. The reps know a great deal about drugs but very little about computers. Each sales person is provided with a notebook computer running a simple Paradox for Windows order entry application in table format. Via modem the rep is able to press a key to mail the table. Through the workgroup enabling Paradox for Windows packages the table into an OBEX message while the rep is reading his or her e-mail. OBEX sends the orders to a central order desk. The order entry server sits in auto-polling mode and simply grabs the table, triggering an order update program. Since the sales manager also subscribes to the order data, he or she gets an updated table sent to her. A Quattro Pro for Windows macro then updates her sales analysis spreadsheet with the latest data.

exibility





Quattro Pro Workgroup Edition users can share spreadsheet pages or whole notebooks with others over a wide variety of mail transports.

Unlike a number of other software vendors, Borland does not sell an e-mail system, but has decided to offer an open system that can support a wide range of e-mail transports ranging from simple LAN based e-mail to global transports like MCI mail.

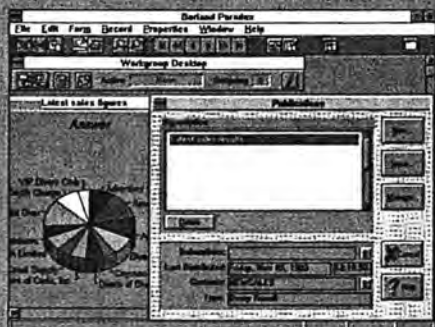
According to Belinda Hanna the purpose of the strategy has been to ensure that Borland customers are not locked into expensive and inflexible proprietary systems.

The architecture of the OBEX engine is also operating system independent. As an illustration of this WordPerfect Corporation recently announced a joint development with Borland to deliver OBEX to its WordPerfect Office customers. Apple Computers have also announced interoperability between OBEX based Windows applications and Apple's AOCE-based PowerShare collaboration servers.

It is true that our roots are in the PC arena, however, we see that as a

major advantage. The fact is what we are doing is taking the software and environments people are used to and delivering them upwards from the PC base,* Ms Hanna said.

Borland's maturity as a company is clearly seen in the fact that our products are responsible for looking after critical data for millions of users. That means that our users have the confidence that their vital information is secure with Borland. We are now applying that same level of security and confidence to the mini and server environments.*



Paradox Workgroup Edition users can set up ongoing publications for co-workers to subscribe to.

WORKGROUP/OBJECT EXCHANGE DEFINITION

ADDRESS BOOK A PW table or QPW notebook holding the addresses and aliases of workgroup members.

ALIAS A user's nickname that you can use in place of a full address.

MAIL You *mail* a spreadsheet or table once to others in your workgroup; mailing does not establish a relationship.

OBJECT A single unit of information that you send out. You can exchange any object that PW understands: tables and their families, forms, reports, queries, OLE objects, and non-PW files. In QPW you can also share notebook pages, sets of pages, or entire notebooks.

POLL You *poll* to send and pick up objects. OE checks for any messages to transmit and picks up any objects waiting for you.

PUBLISH You *publish* a spreadsheet or table in an on-going relationship to others by creating a remote link to their notebooks and tables.

SUBSCRIBE By accepting the objects, others *subscribe* to your publication. Just as with a magazine, both publishers and subscribers can end the relationship.

WORKGROUP Any group of individuals who need to work together and share information for a time, make up a *workgroup*. Usually membership changes as the goals and structures of an organization change. When a group identifies new tasks, new workgroups often dissolve when they complete their tasks. The fluid nature of workgroups requires tools flexible enough to support them and keep up with the changes.

Object : SITEVISS

MethodName : Var

Source : Var
datefrom,dateto string
endVar

Object : SITEVISS

MethodName : open

Source : method open(var eventInfo Event)
if eventInfo.isPreFilter()
then
; This code executes for each object on the form.
else
; This code executes only for the form.
datefrom = strval(today())
dateto = strval(today())
endif
endmethod

Object : #Page2

MethodName : open

Source : method open(var eventInfo Event)
maximize()
endmethod

Object : #Page2.#Button51

MethodName : pushButton

Source : method pushButton(var eventInfo Event)
var
dlgform form
tv tableview
tc,tca tcursor
qstmt query
dateqry, fldval string
sdtefrom,sdteto date
dlgrtn anytype
arry array[] string
endvar
while dlgform.openasdialog("dlgfrmto.fsl",winstyledialogframe,800,800,2880,2880)
dateqry = dlgform.wait()
dateqry.breakapart(arry,":")
dlgform.close()
if arry[1] = "0" then
quitloop
endif
datefrom = substr(arry[2],1,arry[1])
sdtefrom = dateval(datefrom)
dateto = substr(arry[2],smallint(arry[1])+1,size(arry[2])-1)
sdteto = dateval(dateto)
fldval = ""

```

fldval.view("Enter the site, H - help or blank for all")
if upper(fldval) = "H" then
    tv.open("sites.db")
    tv.wait()
    fldval = tv.site_code.value
    tv.close()
endif

qstmt = Query

VISTAT.DB | Site_code | Vehicle | date |
| Check ~fldval| calc sum as total| >= ~sdtefrom, <= ~sdteto, calc ~sdtefrom as datefrom,
calc ~sdteto as dateto |

EndQuery

if not executeqbe(qstmt) then
    errorshow()
endif

; append to table for reporting
tc.open("Vistats.db")
tc.edit()
tc.empty()
;tc.endedit()
tca.open(":\priv:answer.db")
;tca.add(tc,true)
while not tca.eot()
    tc.insertafterrecord()
    tc.site_code = tca.site_code
    tc.datefrom = tca.datefrom
    tc.dateto = tca.dateto
    tc.total = tca.total
    tc.postrecord()
    tca.nextrecord()
endwhile
tca.close()

dlgform.open("Vismry.FsL")
quitloop
endwhile
endmethod

```

Object : #Page2.#Button25

MethodName : pushButton

```
Source : method pushButton(var eventInfo Event)
var
    dlgform form
    returnstr string
endvar
dlgform.open("ORDRPTS.FDL")
{minimize()
returnstr = string(dlgform.wait())
if returnstr="OK" then
    maximize()
    dlgform.close()
else
    show()
    dlgform.close()
endif}
endmethod
```

Object : #Page2.#Button22

MethodName : pushButton

```
Source : method pushButton(var eventInfo Event)
close()
endmethod
```

Object : #Page2.#Button4

MethodName : pushButton

```
Source : method pushButton(var eventInfo Event)
var
    dlgform form
    tv tableview
    tc,tca tcursor
    qstmt query
    dateqry, fldval string
    sdtefrom, sdteto date
    dlgrtn anytype
    arry array[] string
endvar
while dlgform.openasdialog("dlgfrmto.fsl",winstyledialogframe,800,800,2880,2880)

    dateqry = dlgform.wait()
    dateqry.breakapart(arry,":")

    dlgform.close()
    if arry[1] = "0" then
        quitloop
    endif
    datefrom = substr(arry[2],1,arry[1])
    sdtefrom = dateval(datefrom)
    dateto = substr(arry[2],smallint(arry[1])+1,size(arry[2])-1)
    sdteto = dateval(dateto)

    if not dlgform.openasdialog("dlgdate.fsl",winstyledialogframe,200,200,2880,2880) then
        quitloop
    endif
    dateqry = dlgform.wait()
    dlgform.close()
```

```

if dateqry = "Exit" then
    quitloop
endif

fldval = ""
fldval.view("Enter the site, H - help or blank for all")

if upper(fldval) = "H" then
    tv.open("sites.db")
    tv.wait()
    fldval = tv.site_code.value
    tv.close()
endif
switch
    case dateqry = "YR":

        qstmt = Query

        VISTAT.DB | Site_code      | Vehicle      | Yr      | date      |
| Check ~fldval | calc sum as total| check as period | >= ~sdtefrom, <= ~sdteto |

        EndQuery

        case dateqry = "MTH":

            qstmt = Query

            VISTAT.DB | Site_code      | Vehicle      | Mth      |
| Check ~fldval | calc sum as total| check as period |

            EndQuery

        EndQuery

    case dateqry = "YRMTH":

        qstmt = Query

        VISTAT.DB | Site_code      | Yr      |
| Check ~fldval | check _a      |

        VISTAT.DB | Mth      | Vehicle      |
| check _b,calc _a + "/" + _b as period |calc sum as total |

        EndQuery

    endswitch

if not executeqbe(qstmt) then
    errorshow()
endif

tc.open("Vistats.db")
tc.edit()
tc.empty()
;tc.endedit()
tca.open("":priv:answer.db")
;tca.add(tc,true)
while not tca.eot()
    tc.insertafterrecord()

```

```

        tc.site_code = tca.site_code
        tc.period = tca.period
        tc.total = tca.total
        tc.postrecord()
        tca.nextrecord()
    endwhile
    tca.close()

    qstmt = Query

    SITES.DB | Site_code | Site_Name | Gen_area | District_code | Region_code |
              | Check_EG01 | Check   | Check   | Check   | Check   |

    SITES.DB | Status |
              | Check |

    VStatS.DB | Site_code |
              | _EG01   |

    EndQuery

    if not executeqbe(qstmt) then
        errorshow()
    endif

    tc.open("Vissites.db")
    tc.edit()
    tc.empty()
    tc.endedit()
    tca.open("priv:answer.db")
    tca.add(tc,true)

    dlgform.open("Vistat.FsL")

    quitloop
endwhile
endmethod

```

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Act_class	ALPHA	15	0	*	N				
Descn	ALPHA	40	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Asset_Code	ALPHA	15	0	*	N				A
Class	ALPHA	15	0		N				
Description	ALPHA	40	0		N				
Value	NUMERIC	1	0						
Lifespan	SHORT	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Asset_no	ALPHA	10	0	*	N				
Seqno	SHORT	1	0	*					
Asset_code	ALPHA	15	0		N				A
Item	ALPHA	10	0		N				
Cons_type	ALPHA	4	0		N				C
Date_inst	DATE	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Asset_no	ALPHA	10	0	*	N				S
Seqno	SHORT	1	0	*					
Activity	ALPHA	15	0		N				
Activity_dte	DATE	1	0						
Cost	NUMERIC	1	0						N S
Off_code	ALPHA	12	0		N				
Supp_code	ALPHA	12	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_Table Lookup	_Table Lookup Type	_Invariant Field ID
Act_code	ALPHA	10	0	*	N					0	1
Act_class	ALPHA	15	0		N				ACTYCLSS.DB	3	2
Description	ALPHA	40	0		N					0	3

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Asst_Class	ALPHA	15	0	*	N				
Desn	ALPHA	40	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Cons_type	ALPHA	4	0	*	N				
Item	ALPHA	10	0	*	N				
Description	ALPHA	50	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
DISTRICT	ALPHA	4	0	*				
DISTRICT_NAME	ALPHA	25	0					
REGION	ALPHA	4	0					
COST_CENTRE	NUMERIC	1	0					
LAST_UPDATED_BY	NUMERIC	1	0					
LAST_UPDATE_DATE	DATE	1	0					
CREATED_BY	NUMERIC	1	0					
CREATION_DATE	DATE	1	0					
FO_CONVERSION_CODE	NUMERIC	1	0					
DISTRICT_NO	NUMERIC	1	0					
DISTRICT_1CHR	ALPHA	1	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
REGION	ALPHA	4	0	*				
REGION_NAME	ALPHA	25	0					
COST_CENTRE	NUMERIC	1	0					
LAST_UPDATED_BY	NUMERIC	1	0					
LAST_UPDATE_DATE	DATE	1	0					
CREATED_BY	NUMERIC	1	0					
CREATION_DATE	DATE	1	0					
REGION_NO	NUMERIC	1	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
District code	ALPHA	15	0	*					
Regn_code	ALPHA	8	0	*	N				R

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Dist_code	ALPHA	8	0	*	N				R
Regn_code	ALPHA	8	0		N				
Dist_name	ALPHA	15	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Fac_code	ALPHA	15	0	*	N				
Asset_code	ALPHA	15	0	*	N				A

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Fac_code	ALPHA	15	0	*					
Descn	ALPHA	30	0		N				
Cost	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Facility	ALPHA	20	0						
Descn	ALPHA	30	0		N				
Cost	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Facility	ALPHA	20	0		N				
Descn	ALPHA	30	0						
Cost	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Fac_class	ALPHA	15	0	*	N				
Descn	ALPHA	30	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Fac_code	ALPHA	15	0	*	N				
Descn	ALPHA	30	0						
Cost	NUMERIC	1	0						
Fac_class	ALPHA	15	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Fea_Code	ALPHA	15	0	*	N				
Features	ALPHA	40	0		N				
Features Comments	ALPHA	40	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Fea_Code	ALPHA	15	0	*	N				
Features	ALPHA	40	0		N				
Features Comments	ALPHA	40	0						
Pict	GRAPHIC	0	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
LA_code	ALPHA	12	0	*	N				
LA_Name	ALPHA	40	0	*	N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
LFORM_type	ALPHA	10	0	*	N				
Desc	ALPHA	40	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
LScape_Code	ALPHA	10	0						
Desc	ALPHA	40	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site	ALPHA	15	0						
Period	ALPHA	4	0						
Tot_cost	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Category 1	ALPHA	15	0						
1990	NUMERIC	1	0						
1991	NUMERIC	1	0						
1992	NUMERIC	1	0						
1993	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Category 1	ALPHA	4	0						
Nanga Rd North	NUMERIC	1	0						
NangaRd Waroona	NUMERIC	1	0						
RIVER RD	NUMERIC	1	0						
SCARP ROAD	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Off_code	ALPHA	12	0	*					
Off_name	ALPHA	35	0						
Locn_code	ALPHA	8	0						
Area	ALPHA	8	0						
Phone	ALPHA	7	0						
Area_code	ALPHA	3	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
NP_ID	ALPHA	15	0	*	N				
Name	ALPHA	40	0		N				
Class	ALPHA	10	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Office	ALPHA	20	0	*	N				
Address	ALPHA	70	0		N				
Phone	ALPHA	7	0		N				
Fax	ALPHA	7	0						
Area _Code	ALPHA	3	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Regn_code	ALPHA	8	0	*	N				
Regn_name	ALPHA	40	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Road_Type	ALPHA	10	0	*	N			
Description	ALPHA	40	0		N			
Class	ALPHA	10	0		N			

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_Code	ALPHA	15	0	*	N				S
Act_code	ALPHA	10	0	*					
Comment	ALPHA	50	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_code	ALPHA	15	0	*	N				S
Asset_no	ALPHA	10	0	*	N				
Asset_code	ALPHA	15	0	*	N				A
Asset_locn	ALPHA	15	0						
Value	NUMERIC	1	0						
Date_value	DATE	1	0						
Off_code	ALPHA	12	0		N				N
Condition	ALPHA	2	0		N				
Supp_code	ALPHA	12	0		N				S
Comments	ALPHA	55	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_Code	ALPHA	15	0	*	N				S
Fac_code	ALPHA	15	0	*					
Fac_no	SHORT	1	0	*					
Number	SHORT	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_Code	ALPHA	15	0	*	N				S
Fea_code	ALPHA	15	0	*	N				F
Seq_no	SHORT	1	0	*					
Comments	ALPHA	50	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_Code	ALPHA	15	0						
Geology	ALPHA	40	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_Code	ALPHA	15	0						
Landform	ALPHA	12	0		N				
Aspect	ALPHA	8	0		N				
Slope	ALPHA	6	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_Code	ALPHA	15	0						
S_Image	GRAPHIC	0	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_Code	ALPHA	15	0						
Soils	ALPHA	40	0						
Erodibility	ALPHA	40	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_Code	ALPHA	15	0	*	N				S
Nearest_town	ALPHA	15	0	*	N				
Distance	SHORT	1	0						
Travel_Time	NUMERIC	1	0						
Access_mthd	ALPHA	30	0						
Road_type	ALPHA	10	0						
Road_descn	ALPHA	40	0						
Parking	ALPHA	30	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_Code	ALPHA	15	0						
Tracks	ALPHA	20	0						
Track_Type	ALPHA	15	0		N				
Track_direction	ALPHA	20	0		N				
Track_condn	ALPHA	2	0		N				
Track_Time	NUMERIC	1	0						
Track_Commts	ALPHA	40	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Site_Code	ALPHA	15	0					
Lscape_code	ALPHA	10	0					
Vegetation	ALPHA	10	0					
Endangered	ALPHA	1	0					
Dieback_Status	ALPHA	1	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_Code	ALPHA	15	0						
Water_Code	ALPHA	11	0		N				
W_Potability	ALPHA	1	0		N				
Untreated	ALPHA	1	0		N				
Req_treatmt	ALPHA	1	0		N				
HD_aprvd	ALPHA	1	0		N				
Condition	ALPHA	40	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_code	ALPHA	15	0						
Weeds	ALPHA	30	0						
Area	ALPHA	20	0						
Status	ALPHA	20	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Site_Code	ALPHA	15	0					
Fac_no	SHORT	1	0					
Facility	ALPHA	20	0					
Number	SHORT	1	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Asset_no	ALPHA	10	0	*	N				S
Seqno	SHORT	1	0	*					
Activity	ALPHA	15	0		N				
Activity_dte	DATE	1	0						
Cost	NUMERIC	1	0						
Off_code	ALPHA	12	0		N				N S
Supp_code	ALPHA	12	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site	ALPHA	15	0	*					
Period	ALPHA	5	0	*					
Cost_type	ALPHA	9	0	*					
Amount	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site	ALPHA	15	0	*					
Period	ALPHA	4	0	*					
Cost_type	ALPHA	9	0	*					
Amount	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site	ALPHA	15	0	*					
Period	ALPHA	5	0	*					
Cost_type	ALPHA	9	0	*					
Amount	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site	ALPHA	15	0	*	N				S
Period	ALPHA	5	0	*					
Vandalism	NUMERIC	1	0						
Staff_time	NUMERIC	1	0						
Staff_cost	NUMERIC	1	0						
Wage_time	NUMERIC	1	0						
Wage_cost	NUMERIC	1	0						
Plnt_mat	NUMERIC	1	0						
Police_co	NUMERIC	1	0						
Feecoll_cost	NUMERIC	1	0						
Revenue	NUMERIC	1	0						
Vol_time	NUMERIC	1	0						
Tot_cost	NUMERIC	1	0						
Tot_asst	NUMERIC	1	0						
Tot_vistr	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_code	ALPHA	15	0	*	N				D
Site_Name	ALPHA	30	0		N				
Gen_area	ALPHA	30	0		N				
Dist_code	ALPHA	8	0		N				
Regn_code	ALPHA	8	0		N				
Status	ALPHA	1	0						
Coll_Off	ALPHA	10	0						
Coll_date	DATE	1	0						
Sup_officer	ALPHA	10	0						
Ten_code	ALPHA	6	0		N				
Purpose	ALPHA	30	0						
Local_Auth	ALPHA	30	0		N				
Map_no	ALPHA	10	0						
Northing	ALPHA	10	0						
Easting	ALPHA	10	0						
Photo_Ref	ALPHA	12	0						
Base_Plan	ALPHA	1	0						
Rec_Plan_Ref	ALPHA	12	0						
MGMT_Plan_Ref	ALPHA	12	0						
VRM	ALPHA	1	0						
INT_Plan_Ref	ALPHA	12	0						
Future_Plans	ALPHA	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	Default Value	
Site_code	ALPHA	15	0	*	N				
Site_Name	ALPHA	30	0		N				
Gen_area	ALPHA	30	0		N				
Dist_code	ALPHA	8	0		N				
Regn_code	ALPHA	8	0		N				
Status	ALPHA	1	0						
Coll_Off	ALPHA	10	0						
Coll_date	DATE	1	0						
Sup_officer	ALPHA	10	0						
Ten_code	ALPHA	6	0		N				
Purpose	ALPHA	30	0						
Local_Auth	ALPHA	30	0		N				
Map_no	ALPHA	10	0						
Northing	ALPHA	10	0						
Easting	ALPHA	10	0						
Photo_Ref	ALPHA	12	0						
Base_Plan	ALPHA	1	0						
Rec_Plan_Ref	ALPHA	12	0						
MGMT_Plan_Ref	ALPHA	12	0						
VRM	ALPHA	1	0						
INT_Plan_Ref	ALPHA	12	0						
Future_Plans	ALPHA	1	0						

D

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Soil_Type	ALPHA	10	0	*	N				
Description	ALPHA	40	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Supp_code	ALPHA	12	0	*					
Bus_name	ALPHA	30	0						
Contact	ALPHA	20	0						
Phone	ALPHA	7	0						
Area_code	ALPHA	2	0						
Address_1	ALPHA	30	0						
Address_2	ALPHA	30	0						
Address_3	ALPHA	30	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site	ALPHA	15	0	*					
Period	ALPHA	4	0	*					
Acc_cost	NUMERIC	1	0						
Funds	NUMERIC	1	0						
Total_costs	NUMERIC	1	0						
Totvisitors	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Ten_code	ALPHA	6	0	*	N				
Ten_Desc	ALPHA	40	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site	ALPHA	15	0						
Period	ALPHA	4	0						
Vandalism	NUMERIC	1	0						
Type	ALPHA	9	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site	ALPHA	15	0	*					
Period	ALPHA	4	0	*					
Vandalism	NUMERIC	1	0						
Staff_time	NUMERIC	1	0						
Staff_cost	NUMERIC	1	0						
Wage_time	NUMERIC	1	0						
Wage_cost	NUMERIC	1	0						
Plnt_mat	NUMERIC	1	0						
Police_co	NUMERIC	1	0						
Feecoll_cost	NUMERIC	1	0						
Revenue	NUMERIC	1	0						
Vol_time	NUMERIC	1	0						
Tot_cost	NUMERIC	1	0						
Tot_asst	NUMERIC	1	0						
Tot_vistr	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Site	ALPHA	15	0	*				
Period	ALPHA	4	0	*				
Vandalism	NUMERIC	1	0					
Staff_time	NUMERIC	1	0					
Staff_cost	NUMERIC	1	0					
Wage_time	NUMERIC	1	0					
Wage_cost	NUMERIC	1	0					
Plnt_mat	NUMERIC	1	0					
Police_co	NUMERIC	1	0					
Feecoll_cost	NUMERIC	1	0					
Revenue	NUMERIC	1	0					
Vol_time	NUMERIC	1	0					
Tot_cost	NUMERIC	1	0					
Tot_asst	NUMERIC	1	0					
Tot_vistr	NUMERIC	1	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Town_ID	ALPHA	15	0	*	N			
Name	ALPHA	40	0		N			
Class	ALPHA	10	0		N			

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_Code	ALPHA	30	0		N				
Nearest town	ALPHA	15	0		N				
Distance	SHORT	1	0						
Travel Time	NUMERIC	1	0						
Mthd of Access	ALPHA	30	0						
Road type	ALPHA	10	0						
Road descn	ALPHA	40	0						
Parking	ALPHA	30	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Site	ALPHA	15	0					
Period	ALPHA	4	0					
Vandalism	NUMERIC	1	0					
Staff_time	NUMERIC	1	0					
Staff_cost	NUMERIC	1	0					
Wage_time	NUMERIC	1	0					
Wage_cost	NUMERIC	1	0					
Plnt_mat	NUMERIC	1	0					
Police_co	NUMERIC	1	0					
Feecoll_cost	NUMERIC	1	0					
Revenue	NUMERIC	1	0					
Vol_time	NUMERIC	1	0					
Tot_cost	NUMERIC	1	0					
Tot_asst	NUMERIC	1	0					
Tot_vistr	NUMERIC	1	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Veg_code	ALPHA	12	0		N				
Veg_Desc	ALPHA	40	0		N				

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_code	ALPHA	15	0	*					
Period	ALPHA	8	0	*					
Funds	NUMERIC	1	0						
Entry_Fees	NUMERIC	1	0						
Accident_Cost	NUMERIC	1	0						
Vandalism	NUMERIC	1	0						
Total_costs	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site_code	ALPHA	15	0						
Period_my	ALPHA	5	0						
Period_yr	ALPHA	4	0						
Cost	NUMERIC	1	0						
Fundtype	ALPHA	15	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site	ALPHA	15	0	*					
Period	ALPHA	4	0	*					
Acc_cost	NUMERIC	1	0						
Entry_Fees	NUMERIC	1	0						
Funds	NUMERIC	1	0						
Vandalism	NUMERIC	1	0						
Total_costs	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site	ALPHA	15	0	*					
Period	ALPHA	4	0	*					
Vandalism	NUMERIC	1	0						
Staff_time	NUMERIC	1	0						
Staff_cost	NUMERIC	1	0						
Wage_time	NUMERIC	1	0						
Wage_cost	NUMERIC	1	0						
Plnt_mat	NUMERIC	1	0						
Police_co	NUMERIC	1	0						
Feecoll_cost	NUMERIC	1	0						
Revenue	NUMERIC	1	0						
Vol_time	NUMERIC	1	0						
Tot_cost	NUMERIC	1	0						
Tot_asst	NUMERIC	1	0						
Tot_vistr	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Site	ALPHA	15	0					
Period	ALPHA	4	0					
Vandalism	NUMERIC	1	0					
Staff_time	NUMERIC	1	0					
Staff_cost	NUMERIC	1	0					
Wage_time	NUMERIC	1	0					
Wage_cost	NUMERIC	1	0					
Plnt_mat	NUMERIC	1	0					
Police_co	NUMERIC	1	0					
Feecoll_cost	NUMERIC	1	0					
Revenue	NUMERIC	1	0					
Vol_time	NUMERIC	1	0					
Assets	NUMERIC	1	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site	ALPHA	15	0	*					
Period	ALPHA	4	0	*					
Cost_type	ALPHA	9	0	*					
Sum of Tot_cost	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_code	ALPHA	15	0	*	N				S
Site_Name	ALPHA	30	0		N				
Gen_area	ALPHA	30	0		N				
District_code	ALPHA	15	0		N				D
Region_code	ALPHA	15	0		N				
Status	ALPHA	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Site	ALPHA	15	0	*					
Period	ALPHA	5	0	*					
Cost_type	ALPHA	9	0	*					
Amount	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Site_code	ALPHA	15	0	*				
Datefrom	DATE	1	0	*				
Date	DATE	1	0	*				
Counter	NUMERIC	1	0	*				
Vehicle	NUMERIC	1	0					
Comment	ALPHA	35	0					
Site	ALPHA	27	0					
Yr	ALPHA	4	0					
Mth	ALPHA	2	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value
Site_code	ALPHA	15	0	*				
Datefrom	DATE	1	0	*				
Date	DATE	1	0	*				
Counter	NUMERIC	1	0	*				
Vehicle	NUMERIC	1	0					
Comment	ALPHA	35	0					
Site	ALPHA	27	0					
Yr	ALPHA	4	0					
Mth	ALPHA	2	0					

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	
Site_code	ALPHA	15	0	*					
Period	ALPHA	8	0	*					
Datefrom	DATE	1	0						
Dateto	DATE	1	0						
Total	NUMERIC	1	0						
Total_cost	NUMERIC	1	0						

Field Name	Type	Size	Dec	Key	_Required Value	_Min Value	_Max Value	_Default Value	_
Water_code	ALPHA	11	0	*	N				
Description	ALPHA	40	0		N				