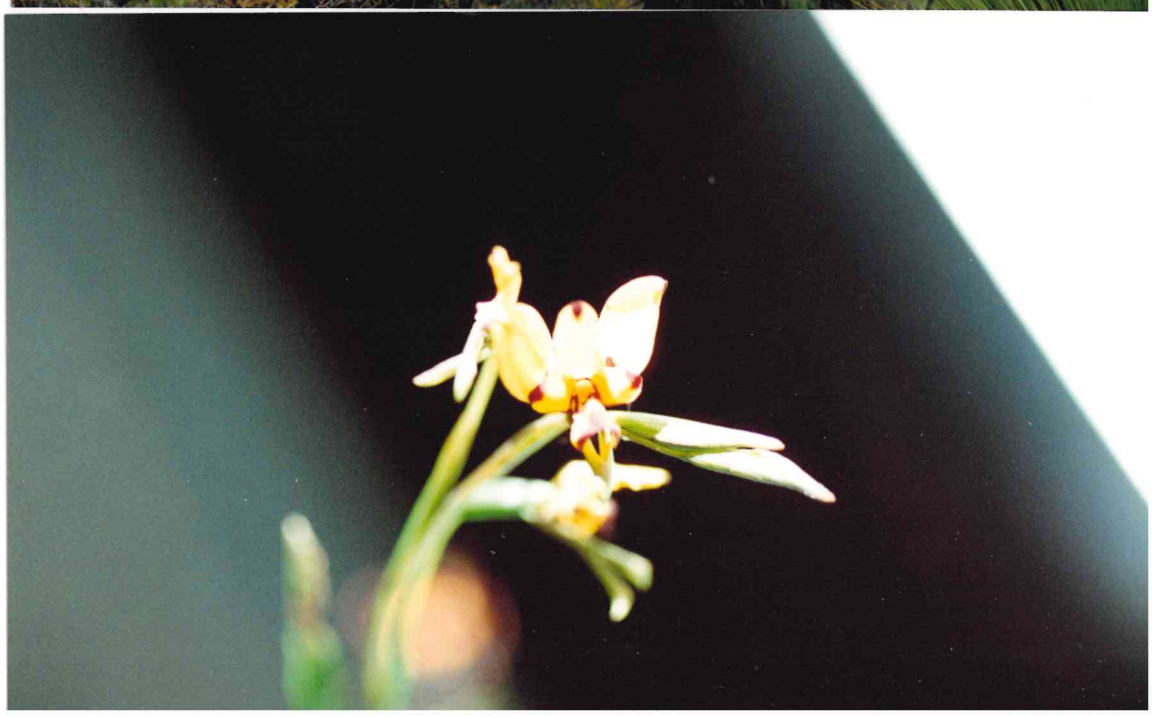


BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA NW Corner Waylunga NP **SITE NUMER** WAYLO1

DATE TRIP 3/9/96 **RECORDERS** AM ML

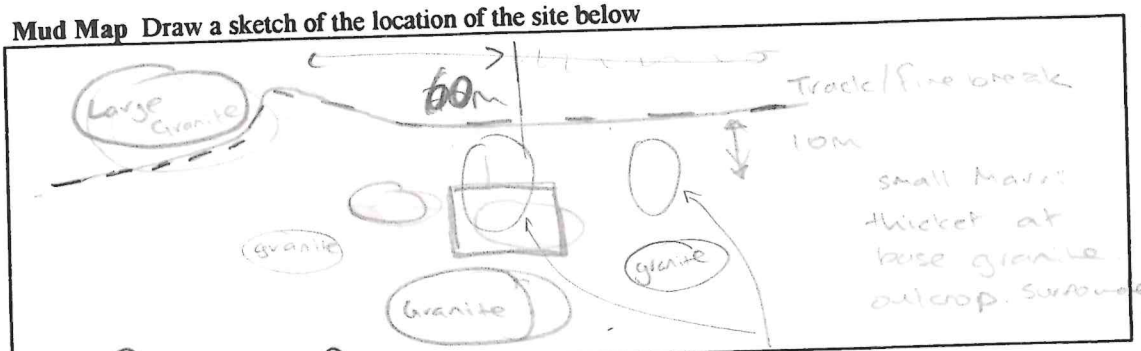
DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

Run 15
Aerial photo 5090
→ N 910400
4.1.91

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



dunts 2011 Cuspa-ppo 2011 ✗ Mart: patches

Road Location Firebreak at west edge of NW corner Waylunga NP.

Geographic Location **Latitude** 31·42 21·7 **S** **Longitude** 116 03 05·5 **E** **Altitude** 180m
GPS ✓ **Accuracy** 6·9 (2D00)
Map Sheet AVON VALLEY

Photograph **Name** **Number** #1 Roll #1

Topographic Position (Circle the correct response)

Upland	*Lower slope*
Upper slope	*Valley*
Midslope	*Washline*

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** 2 ***Aspect*** **N NE E SE S SW W NW** 7.5

Surface Soil Sandy loam Dk brown ***Depth to Rock*** 30cm ***Colour*** Dk Brown with fragments of granite

Exposed Rock type Granite % surface cover <5% size range 3-15cm

Litter 70 % surface cover 5 Depth (cm)

Bare Ground 5 % surface cover)

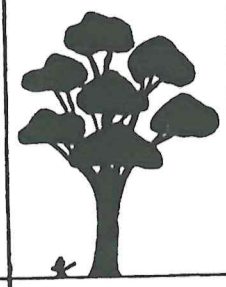
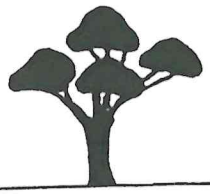
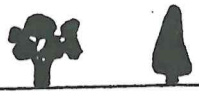
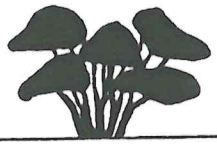
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

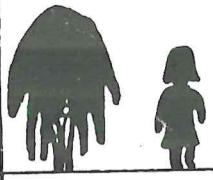
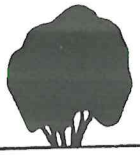
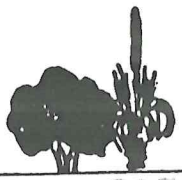
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

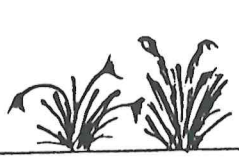
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					 30m 10m
COVER CLASS (%)	15	10-30			
DOMINANT SPECIES		Mauri	Calothamnus		
			X. preissii		
			H. ericoides		
			Hypocalymma		

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					 2m 1m
COVER CLASS (%)			30-70%	10-30%	10-30%
DOMINANT SPECIES			H. ericoides	Dryandra	D. nivea
			Calothamnus	Hibbertia hypericoides	X. gracilis
			X. preissii		Dryandra erythrocorys
			X. gracilis		

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				 1m
COVER CLASS (%)		Drosera erythrorhiza		–
DOMINANT SPECIES		B. umbellata		–
		A. xanthopodium		–
		L. hugelii		

4. VEGETATION CONDITION

Comments 4 of 5. Nearly pristine. Some areas from adjacent paddocks & tracks.

Weeds ∴ 1-5!

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA NW corner Waylunga NP **SITE NUMER** WAYL02

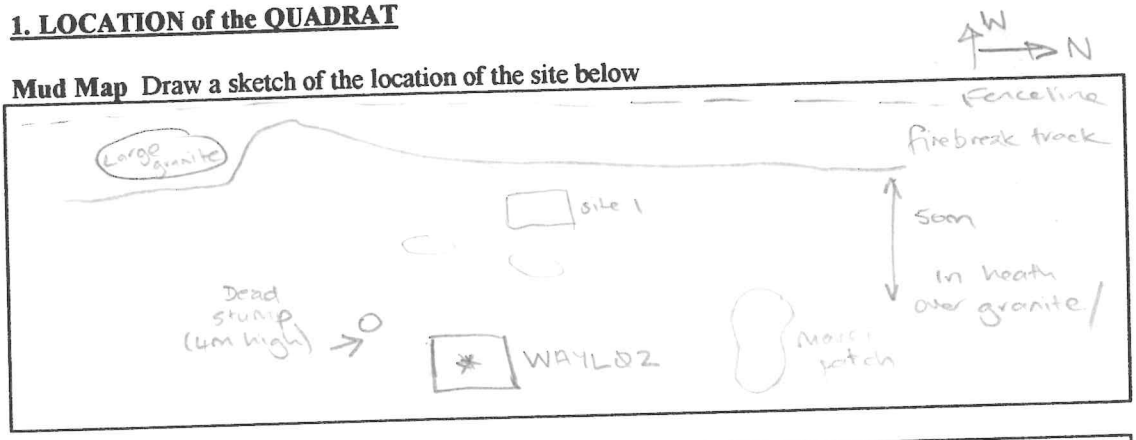
DATE TRIP 3/9/96 **RECORDERS** AM ML

DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location , Firebreak along NW corner, NW Waylunga NP

Geographic Location **Latitude** 31°42'20.8" S **Longitude** 116°03' 05.0 E **Altitude** ~~250m~~ ? 190M
GPS ✓ **Accuracy** ~~3.2~~ (HDOP) 7.4 ~~(PDOP=7.4)~~
Map Sheet AVON VALLEY

Photograph **Name** **Number** 2 + #3 Roll 1

Topographic Position (Circle the correct response)
Upland - on ridge
Upper slope ← 4 see below ✓
Midslope
Lower slope
Valley
Washline

2. SITE DATA Circle the correct response

Slope **flat** **gentle** 2 **steep** ***Aspect*** **N NE E SE S SW W NW** Bs 7.5

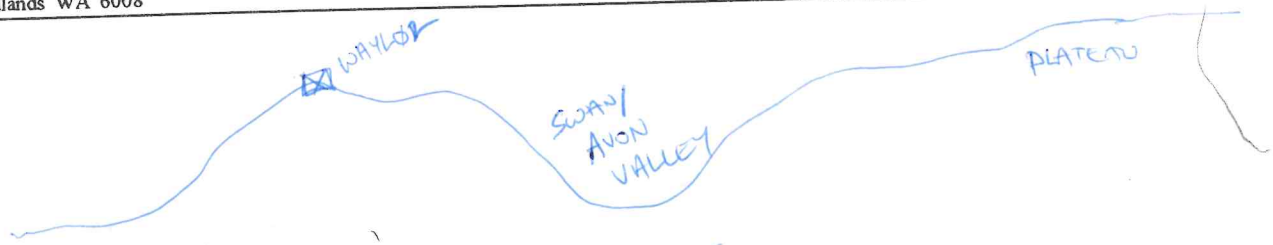
Surface Soil Gritty clay loam ***Depth to Rock*** clay loam grit ?? 0-50cm ***Colour*** Dk Brown

Exposed Rock type Granite % surface cover 20 size range 5cm - 50cm

Litter 20-30 % surface cover Depth (cm) 0-5cm

Bare Ground 20 % surface cover)

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008



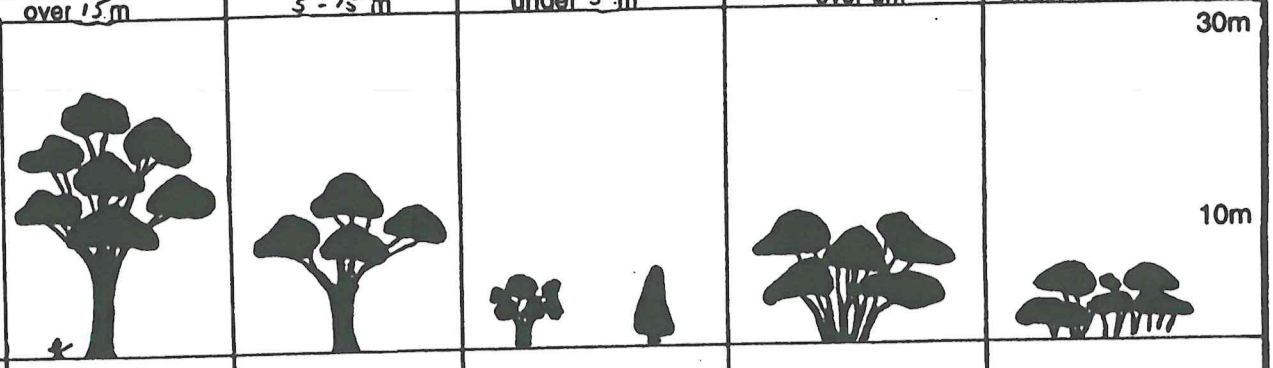
1st Ridge - granite + quartzite - upperslopes

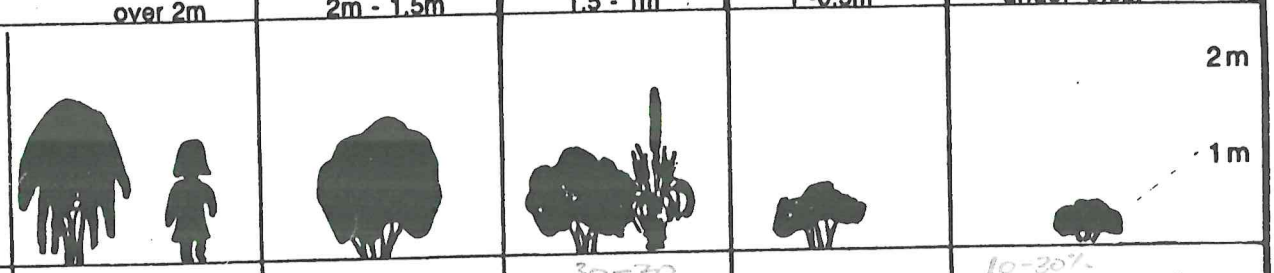
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

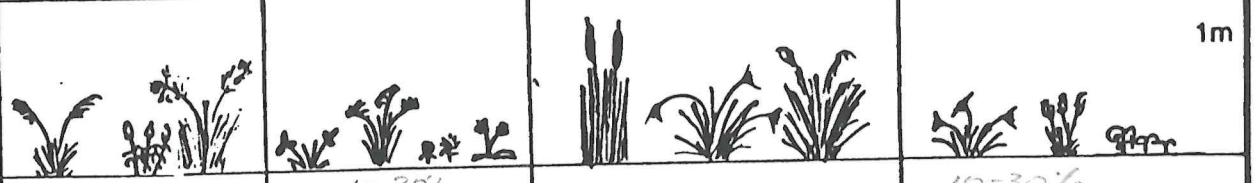
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		30-70%	30-70		10-30%
DOMINANT SPECIES		H. ericaea M. fulgens (?) Calothamnus	D. falcata D. horida (?) Trymalium ledifolium		Stylidium bulbiferum Conospyla sericea ~~Arthropodium~~ Banya sphaerocephala

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				
COVER CLASS (%)	2-10%	10-30% ~~2-10%~~		10-30% dep.
DOMINANT SPECIES	Briza maxima	Arthropodium Tricoryne Hypochoeris		~~Banya sphaerocephala~~ ~~Pomaderris racea~~ ~~Dasera erythrorhiza~~

Styl. bulbiferum
Banya sphaerocephala

4. VEGETATION CONDITION

Comments Mixed heath of H. ericaea, Calothamnus & Melaleuca + Dryandra with emergent blackboys.

Condition = 4. →

Rescore = 3½ ∴ 2 - Annual weeds

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WALY02 **SITE NUMER** _____

DATE TRIP 27/11/96 **RECORDERS** AM

DATE TRIP Revisit **RECORDERS** _____

DATE TRIP _____ **RECORDERS** _____

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below

Road Location

Geographic Location	**Latitude** **GPS** **Map Sheet**	**S Longitude** **Accuracy**	**E Altitude**

Photograph	**Name**	**Number**

Topographic Position (Circle the correct response)

Upland	***Lower slope***
Upper slope	***Valley***
Midslope	***Washline***

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** ***Aspect*** **N NE E SE S SW W NW**

Surface Soil	***Depth to Rock***	***Colour***
Exposed Rock type	% surface cover	size range
Litter	% surface cover	Depth (cm)
Bare Ground	% surface cover)	

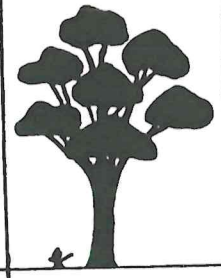
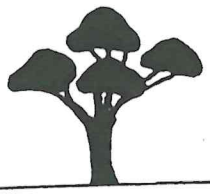
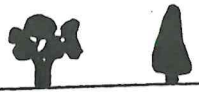
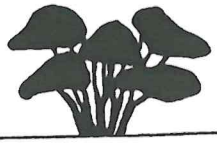
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

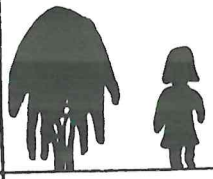
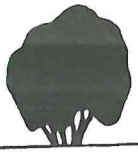
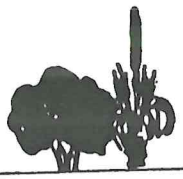
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

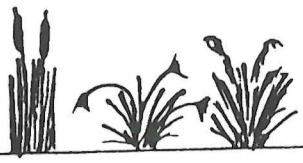
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					 30m 10m
COVER CLASS (%)					
DOMINANT SPECIES					

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					 2m 1m
COVER CLASS (%)			30-70%	30-70%	10-30%
DOMINANT SPECIES			H. ericacea M. fulgens cal. quad	Microcorys sp Hibb D. fraseri Dry. arcuata	Hibb hypericifolia Hibb comm.

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				 1m
COVER CLASS (%)		MD 30-70%		10-30%
DOMINANT SPECIES		Anthropodium Tricoryne Bonya sp. Styl. bulbiferum		dep. terete - rough

4. VEGETATION CONDITION

Comments

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA NW corner Wayllunga NP **SITE NUMER** Way/03

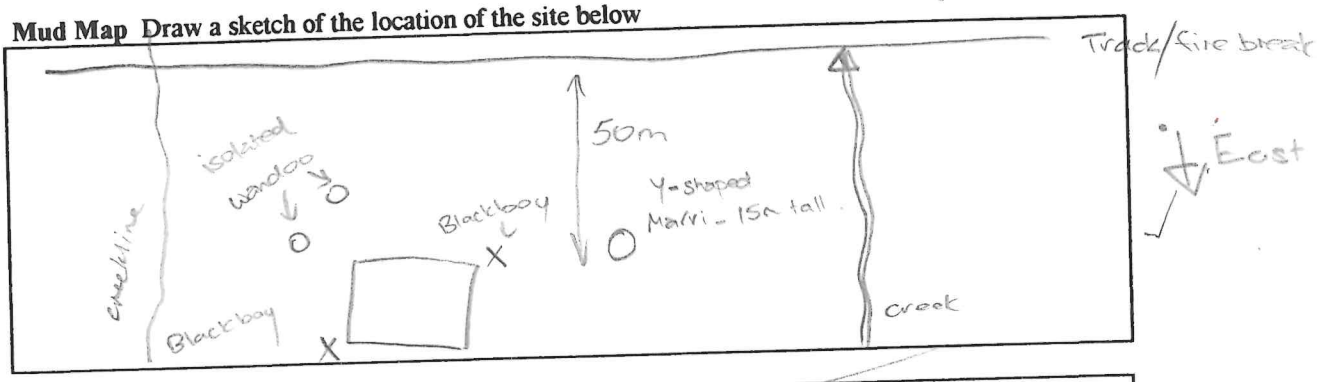
DATE TRIP 3/9/96 **RECORDERS** AM ML

DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location

Geographic Location **Latitude** 31 42 058 S **Longitude** 116 03' 07-2" E **Altitude** ~~[illegible]~~ 180m
GPS ✓ **Accuracy** DOP 2-9
Map Sheet Avon Valley

Photograph **Name** **Number** #4+5 Roll #1

Topographic Position (Circle the correct response)

Upland ***Lower slope***
Upper slope ***Valley***
Midslope - next to creek line 3 ***Washline***

2. SITE DATA Circle the correct response

Slope **flat** — **gentle** **steep** 1°0 ***Aspect*** **N** **NE** **E** **SE** **S** **SW** **W** **NW** (from memory - 0)

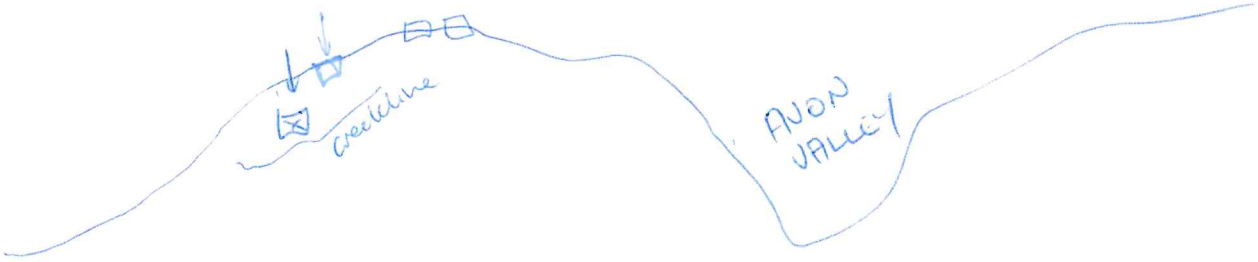
Surface Soil Gritty clay sticky clay ***Depth to Rock*** 0.5 - 1 m ***Colour*** Dk Brown

Exposed Rock type granite / % surface cover size range 3 - 10cm

Litter 30 % surface cover Depth (cm) 2-3 cm

Bare Ground / % surface cover)

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

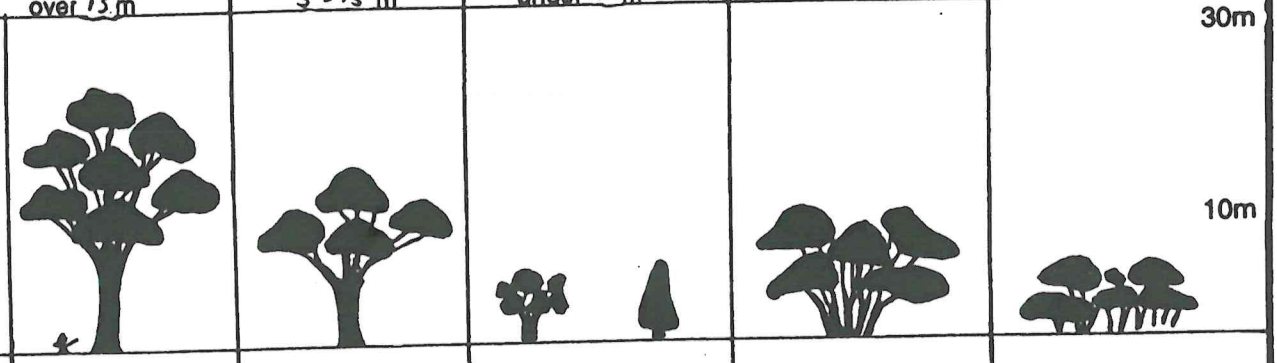


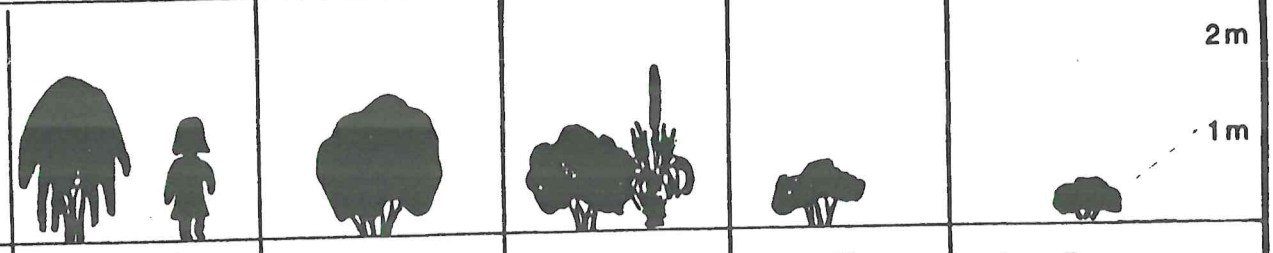
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

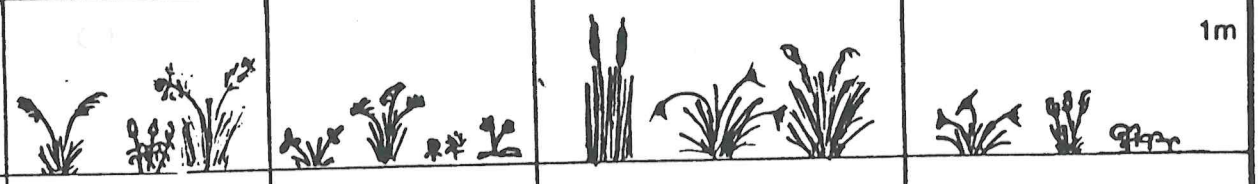
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10%		Gal 30-70%	30-70	10-30
DOMINANT SPECIES	~~X-pr.~~ Xanthorrhoea preissii		Calothamnus Hakea erinacea Acacia pulchella	Hibbertia hypericoides Dryandra falcata Grevillia pilulifera	Leucopogon - ? Dryandra nivea

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				
COVER CLASS (%)		2-10%		–
DOMINANT SPECIES		Gladiolus unnamed grass		–

4. VEGETATION CONDITION

Comments In heath dominated by Isopogon, H. erinacea, Calothamnus + H. augustifolium with frequent upper layer X. preisii

x (4)

condtn =

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Waylupup NP Norman Boundary **SITE NUMER** WAYL04

DATE TRIP 4/9/96 **RECORDERS** AM ML

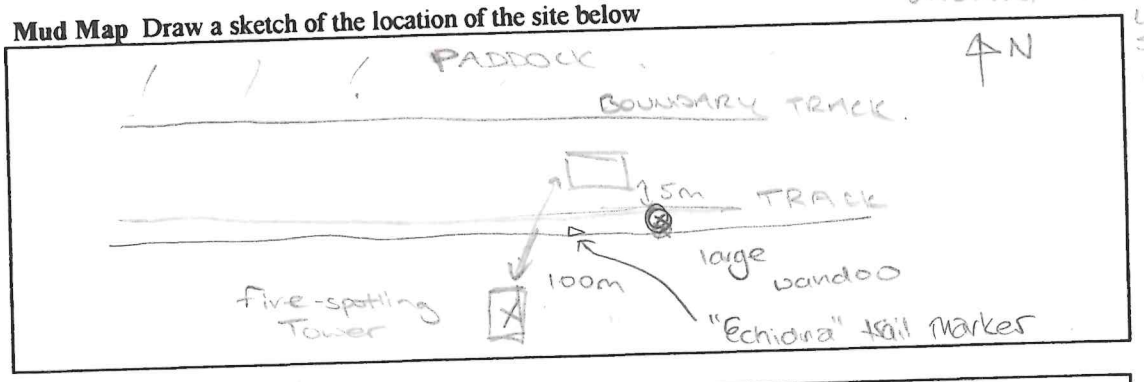
DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below

unburnt E. accedens with shrubby u/storey



Road Location

Geographic Location **Latitude** 31 42 34.6 **S** **Longitude** 116 03 47.6 **E** **Altitude** 260m
GPS ✓ **Accuracy** HDOP 5-7
Map Sheet AVON VALLEY.

WAYL03 = shots 5+6

Photograph **Name** **Number** 7+8
6+7 Roll #1

Topographic Position (Circle the correct response)

Upland ***Lower slope***
Upper slope ***Valley***
Midslope ***Washline***

upper Valley slope = 4

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** 2

Aspect **N NE E SE S SW W NW** ! for N easterly!

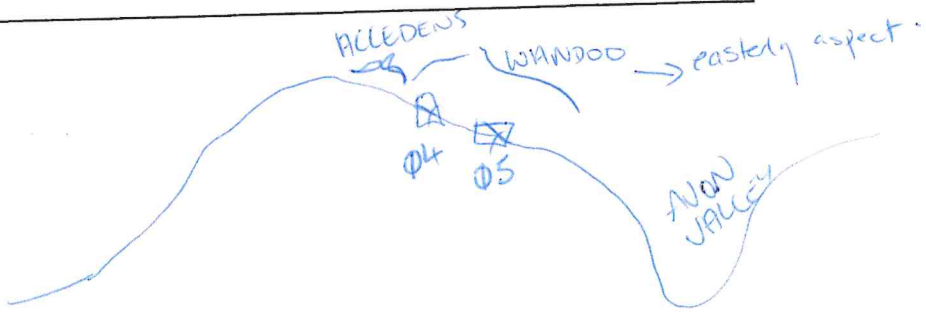
Surface Soil Gravelly loam ***Depth to Rock*** >1m ***Colour*** Dk Brown

Exposed Rock type Gravel % surface cover 30% size range 1-3cm

Litter 50 % surface cover Depth (cm) 5-15cm

Bare Ground 10 % surface cover)

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

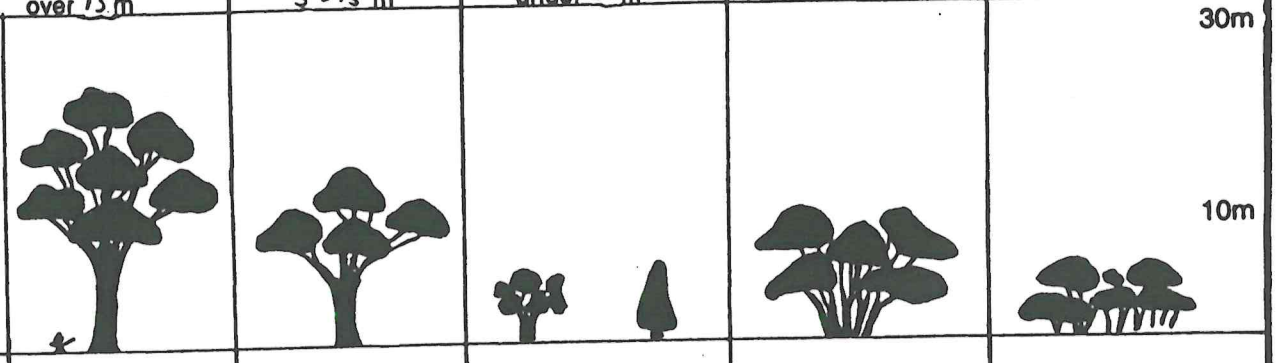


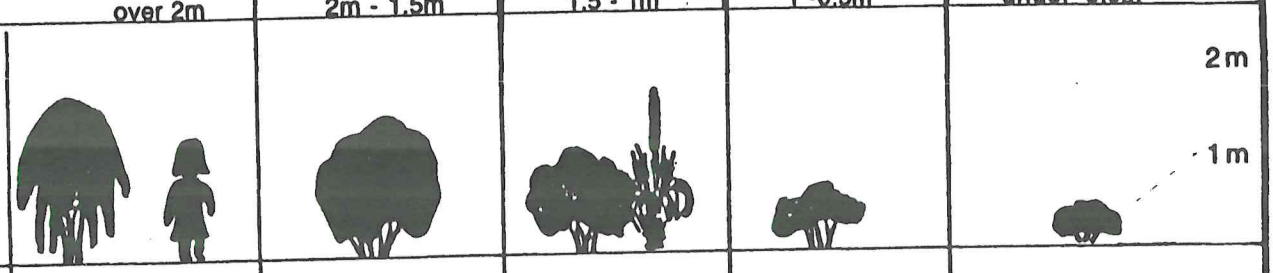
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

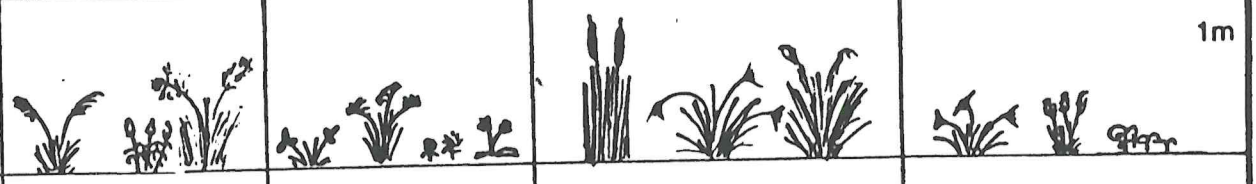
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10%	10-30%		
DOMINANT SPECIES		E. accedens	E. accedens		
		E. wandoo	E. wandoo		
			E. calophylla		

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			10-30%		2-10%
DOMINANT SPECIES			H. lissocarpa		Bossiaea eriocarpa
			Macrozamia		Dryandra nivea
			H. hypericoides		Dryandra bipinnatifida

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				
COVER CLASS (%)	2-10%	2-10%		-
DOMINANT SPECIES	Briza minor	Lagenifera huegelii		-
	Briza maxima	Arthropodium capillipes		-
	Danthonia sp	Romulea rosea		

4. VEGETATION CONDITION

Comments Unburnt 3½/5

Good condition

History grazing. but good condition

205

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northern boundary WAYLUNG NPU **SITE NUMER** WAYLØ5

DATE TRIP 4/9/96 **RECORDERS** AM ML

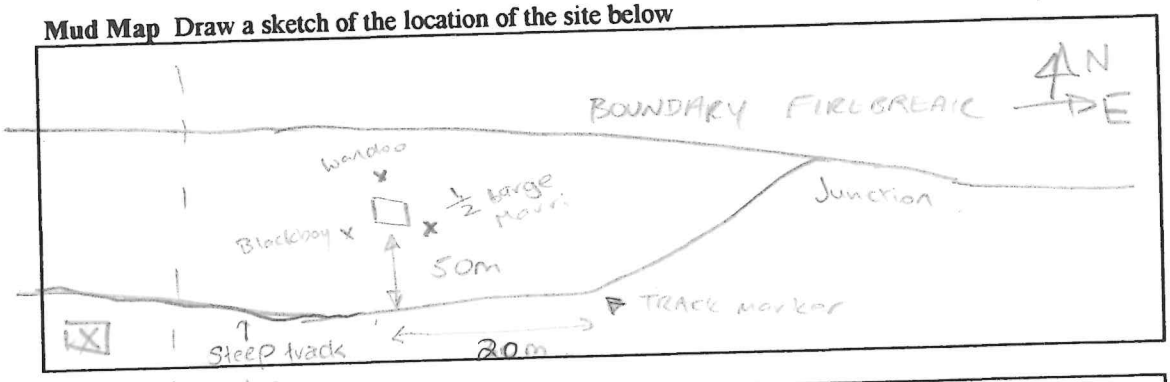
DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

~300 m from WAYLØ4 (at 3rd trail marker)

Mud Map Draw a sketch of the location of the site below



Road Location

Geographic Location **Latitude** 31 42 35.5 **S** **Longitude** 116 03 57.2 **E** **Altitude** –
GPS ✓ **Accuracy** – HDOP 2.4
Map Sheet AVON VALLEY

Photograph **Name** **Number** 9 + 10 (8 + 9 Roll #1) Roll #1

Topographic Position (Circle the correct response)

Upland	*Lower slope*
Upper slope	*Valley*
Midslope	*Washline*

4 Valley

Becoming midslope! of valley!

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** 2 ***Aspect*** **N NE E SE S SW W NW** ! evokery!

Surface Soil Granitic gravelly 100mm ***Depth to Rock*** >1m ***Colour*** Dk Brown

Exposed Rock type Granite **% surface cover** 1% **size range** 1-3cm

Litter 30 **% surface cover** **Depth (cm)** 5cm

Bare Ground 1 **% surface cover)**

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

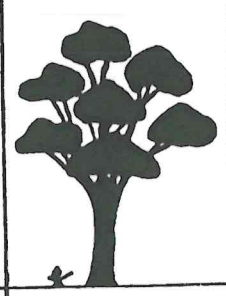
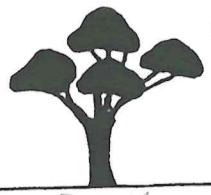
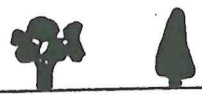
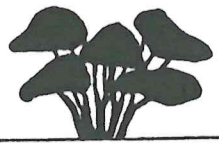
Soil depth is an overestimate!

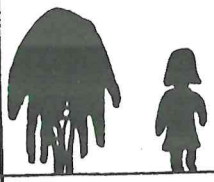
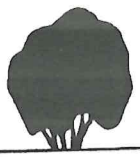
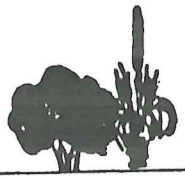
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					 30m 10m
COVER CLASS (%)		2-10% ~~20-30%~~	2-10%		
DOMINANT SPECIES		E. wandoo E. colophylla	E. wandoo		

	SHRUBS over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	SHRUBS under 0.5m
LIFE FORM					2m 1m
COVER CLASS (%)			10-30%	30-70% ~~10-30%~~	10-30%
DOMINANT SPECIES		~~H. lissocarpa~~	H. erinacea	H. lissocarpa Dryandra armata H. angustifolium	H. hypericoides Leucopogon D. nivea

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				 1m
COVER CLASS (%)		30-70%		--
DOMINANT SPECIES		Chaemosila Neurodine Crassperia sp Romulea rosea		-- -

4. VEGETATION CONDITION

Comments Emergent X. preissii / X. acanthostachya ? with reflexed & skirt.
4½/5

v good condition
1-6

Avon Valley ~~East~~ West Bank.

450m from junction to WAYL05 heading (W)

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA SYDS RAPIDS. WAYL. NP SYDS RAPIDS **SITE NUMER** WAYL06

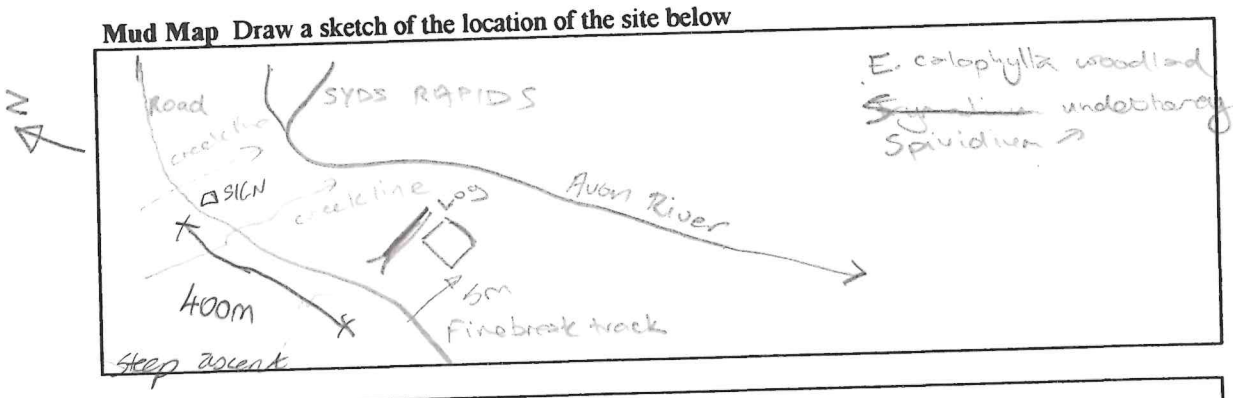
DATE TRIP 4/9/96 **RECORDERS** AM ML

DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location

Geographic Location **Latitude** 31 43 10.0 **S** **Longitude** 116 04 24.5 **E** **Altitude** 70m
GPS — **Accuracy** PDOP 3.6
Map Sheet Avon valley

Photograph **Name** **Number** 12 (# 11 Roll 1)

Topographic Position (Circle the correct response)

Upland ***Lower slope***
Upper slope of Avon valley ***Valley***
Midslope ***Washline***

Midslope Valley - on map! : code 8

2. SITE DATA Circle the correct response

Slope **flat** ~~**gentle**~~ MOD **steep** 2.5 ***Aspect*** **N NE E SE S SW W NW** 8

Surface Soil Loam ***Depth to Rock*** >1m ***Colour*** Dk Brown Dk Brown-Black

Exposed Rock type Granite % surface cover 1% size range 10-20cm

Litter 40 % surface cover Depth (cm) 3-8cm

Bare Ground 1 % surface cover)

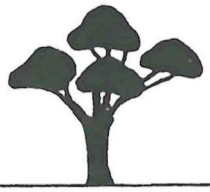
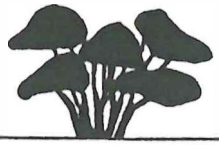
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

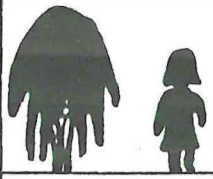
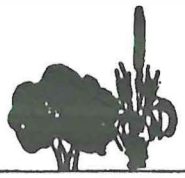
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					30m  10m
COVER CLASS (%)		10-30%			
DOMINANT SPECIES		E. calophylla			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					2m  1m
COVER CLASS (%)	30-70%	30-70%	30-70%		10-30%
DOMINANT SPECIES	Spiridium	→ Spiridium	→		Dryandra nivea
	Leptospermum erubescens				Dryandra sessilis
					Phyllanthus calycinus

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				1m 
COVER CLASS (%)	30-70%			-
DOMINANT SPECIES	Briza maxima			-
				-

4. VEGETATION CONDITION

Comments 3½ → Weed invasion → annuals - in u/storey

V poor condition!
- freq. fire
- grazing
- weed invasion (annuals)

3.5

Avon Valley ~~East~~ West Bank.

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Waylunga NP (Pebble race) Upper carpark (H2O tank) **SITE NUMER** WAYL07

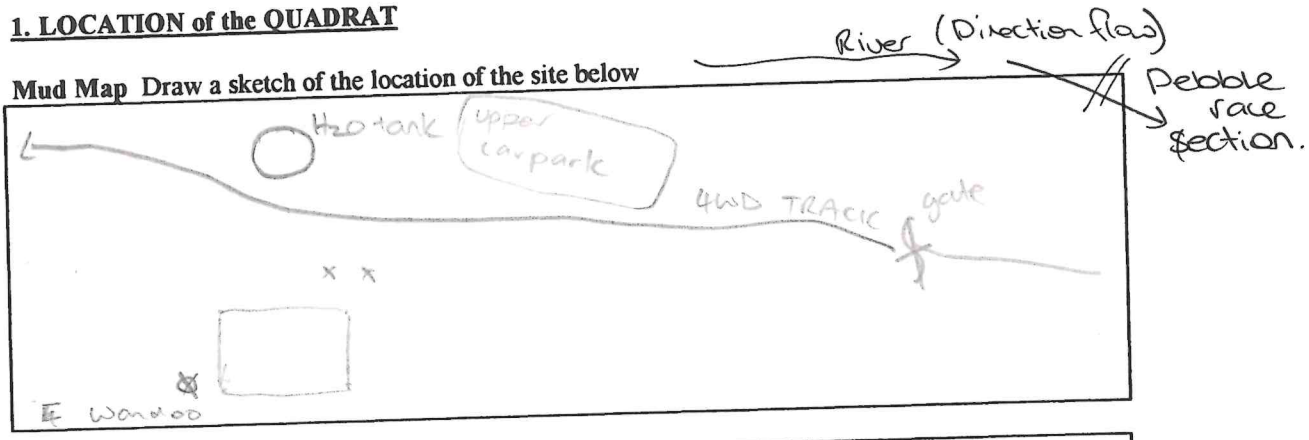
DATE TRIP 4/9/96 **RECORDERS** AM ML

DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location Near upper carpark pebble race. Firebreak access.

Geographic Location **Latitude** 31 43 59.8 **S** **Longitude** 116 04 17.8 **E** **Altitude** 40m
GPS ✓ **Accuracy** HDOP 1.8
Map Sheet Avon Valley

Photograph **Name** **Number** 13

Topographic Position (Circle the correct response)

Upland	*Lower slope*
Upper slope	*Valley*
Midslope	*Washline*

Lower valley slope
9

2. SITE DATA Circle the correct response

Slope **flat** **gentle** (1.5) **steep** ***Aspect*** **N NE E SE S SW W NW** (easterly)

Surface Soil gritty clay / sandy clay ***Depth to Rock*** >1m ***Colour*** Med brown

Exposed Rock type (granite) 0.5 % surface cover 0-5 size range 1-2cm

Litter 0-5 % surface cover Depth (cm) 1cm

Bare Ground 20 % surface cover)

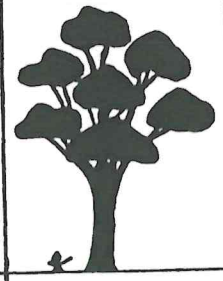
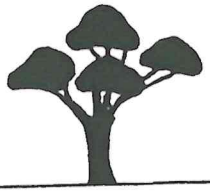
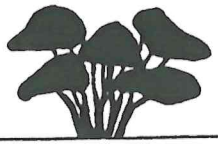
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

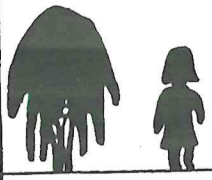
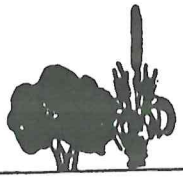
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

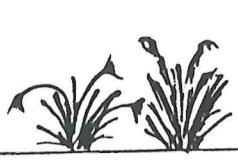
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					 30m 10m
COVER CLASS (%)		2-10%			
DOMINANT SPECIES		E. wandoo			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					 2m 1m
COVER CLASS (%)				30 — 70	D. rivularis
DOMINANT SPECIES				Hypocalymma angustifolium H. hypericoides A. pulchella	

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				 1m
COVER CLASS (%)		Borya sphaerocephala		—
DOMINANT SPECIES		Drosera menziesii Sowerbaea laxiflora D. stolonifera		—

4. VEGETATION CONDITION

Comments Mixed ~~stand~~ short shrub layer - open E. wandoo woodland.

condⁿ index? Some minor annual weeds.

Full complement of annual weeds

~~Not too~~ Didn't appear too grazed =2.

didn't appear too grazed =2

Avon Valley East Bank.

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Walyunga NP Woolooroo Bk. ~~Woolooroo~~ **SITE NUMER** WAYL Ø8

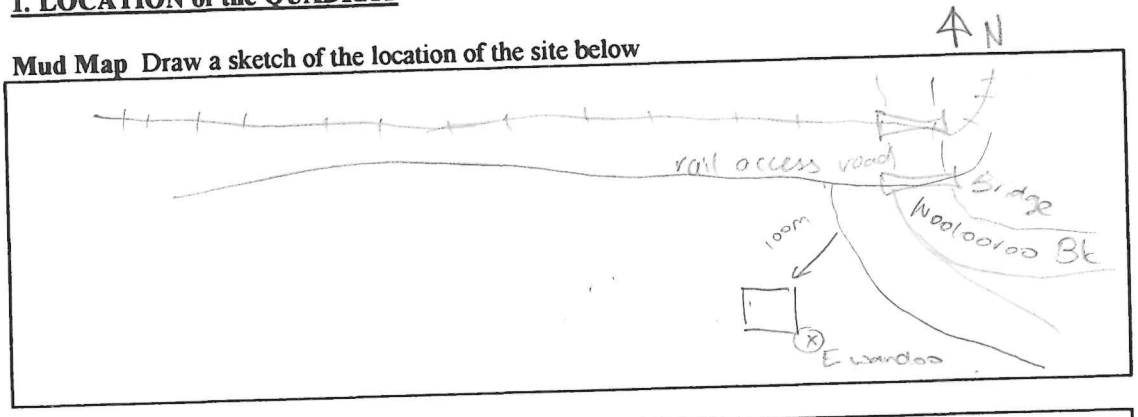
DATE TRIP 5/9/96 **RECORDERS** AM ML

DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location Next to Woolooroo Bk ~~acc~~ rail access track

Geographic Location **Latitude** 31 ~~44~~ 21.4 **S** **Longitude** 116 04 29.4 **E** **Altitude** 40m
GPS ✓ **Accuracy** PDOP 6.1
Map Sheet AVON VALLEY

Photograph **Name** **Number** 14 (#13 Roll #1)

Topographic Position (Circle the correct response)
Upland *Lower slope* - of valley
Upper slope *Valley* 9
Midslope *Washline*

2. SITE DATA Circle the correct response

Slope **flat** **gentle** 1.5 **steep** ***Aspect*** **N NE E SE** westerly **S SW W NW**

Surface Soil Gritty clay ***Depth to Rock*** >1m ***Colour*** Mod Dk Brown

Exposed Rock type Granite/Quartz % surface cover 0.5% size range ~~1-2cm~~ ½-2 (cm)

Litter 1% ~~dus~~ % surface cover Depth (cm) 1cm

Bare Ground 20 % surface cover)

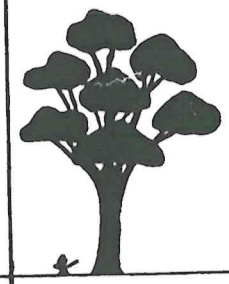
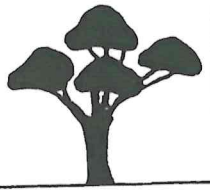
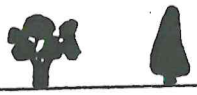
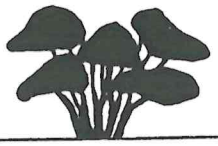
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

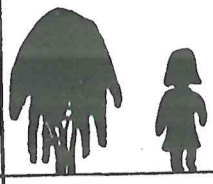
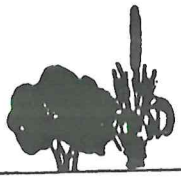
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					30m  10m
COVER CLASS (%)		2-10%			
DOMINANT SPECIES		E. wandoo			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM				10-30% ~~30-70%~~ 	2m 1m
COVER CLASS (%)				H. erinacea H. →	30-70%
DOMINANT SPECIES				~~H. lissocarpha~~ H. angustifolium ~~H. nivea~~	D. nivea Verticordia sp. H. myrtoides

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				1m 
COVER CLASS (%)		30-70%		–
DOMINANT SPECIES		rich hab layer mixed. Borya sphaerocephala		–

4. VEGETATION CONDITION

Comments Emergent H. erinacea ✓. (1-5m) Yes!

3½/4

3½→4 Condition - weed invasion

2

Rewed slide. low H. lissocarpha ✓ } Both taxa in plot.
Emergent H. erinacea Yes!

Aerial photo
5096 1991

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Walyunga NP - East Bank - near lookout **SITE NUMER** WALYL09

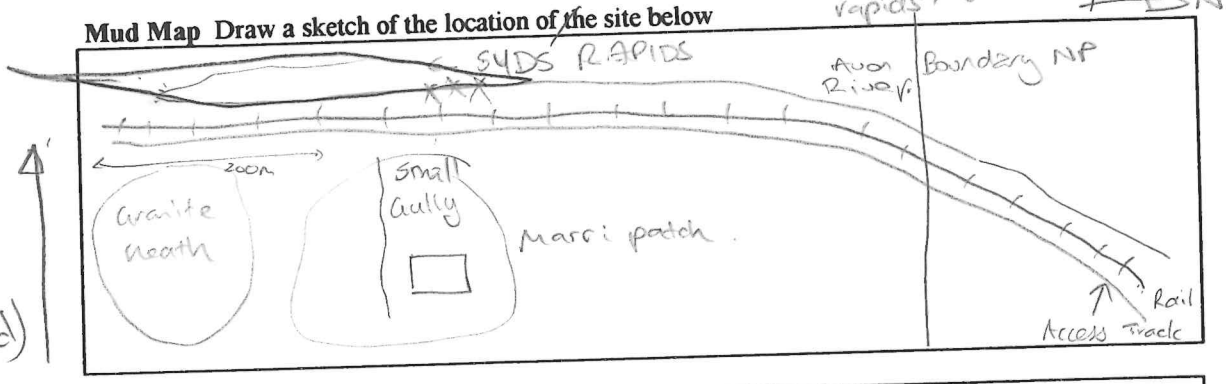
DATE TRIP 5/9/96 **RECORDERS** AM ML

DATE TRIP _____ **RECORDERS** _____

DATE TRIP _____ **RECORDERS** _____

1. LOCATION of the QUADRAT Must be able to view wide section of rapids,

Mud Map Draw a sketch of the location of the site below



Road Location

Geographic Location **Latitude** 31 42 57.0S **Longitude** 116 04 51.6E **Altitude** 70m
GPS ✓ **Accuracy** PDOP ~~6.9~~ 6.9
Map Sheet AVON valley

Photograph **Name** **Number** 15 (#14 Roll #1)

Topographic Position (Circle the correct response)

Upland	*Lower slope*
Upper slope	*Valley*
Midslope	*Washline*

~~Valley Midslope 8~~
midslope = ~~8~~ 9
7

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** 3 ***Aspect*** **N NE E SE S SW W NW**

Surface Soil Loam ***Depth to Rock*** >1m Deep soil ***Colour*** Dk Brown DK RN-BL

Exposed Rock type Granite % surface cover 15cm size range 3cm – 35cm

Litter 30 % surface cover **Depth (cm)** 5-10cm

Bare Ground 1 % surface cover)

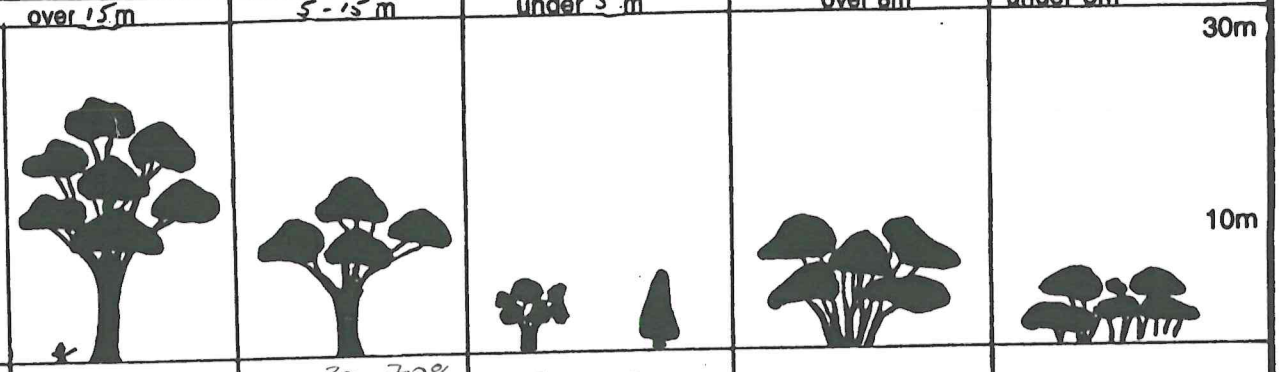
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

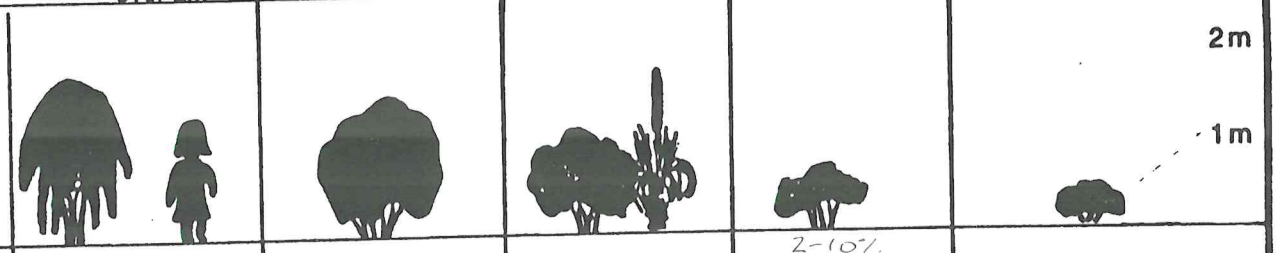
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

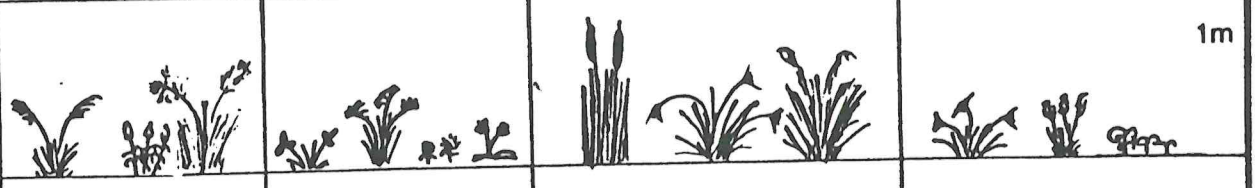
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					30m 10m
COVER CLASS (%)		30-70%	2-10%		
DOMINANT SPECIES		E. calophylla	A. saligna		

	SHRUBS over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	SHRUBS under 0.5m
LIFE FORM					2m 1m
COVER CLASS (%)	10-30%	10-30%		2-10%	30-70%
DOMINANT SPECIES	Lepto spermum erubescens → Acacia saligna → H. erinacea →			Xanthorrhoea preissii	H. hypericoides Phyllanthus calycinus Dryandra fraseri

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				1m
COVER CLASS (%)				–
DOMINANT SPECIES		Mixed herbs S. laxiflora Briza maxima Stylidium bulbifrum		

4. VEGETATION CONDITION

Comments

Marri patch on East bank, westerly facing slope of Nin valley

3-5m

condition - weeds 2-5.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL09
Date	5.9.96
	29.11.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Euc. calophylla	—		✓/R

SHRUBS	No	Fl	ID
Dryandra fraseri fraseri	—		✓/R
Hakea ednacea	—		✓/R
Xanthorrhoea preissii	—		✓/R
Hakea lissocarpha	—		✓/R
Leptospermum erebescens	—		✓/R
Phyllanthus calycinus	—		✓/R
Dryandra lindleyana lindleyana	—		✓/R.
Muellerbaeckea adpressum	✓	✓	✓/R
Grevillea pilulifera		✓	R
~~Melaleuca aff scabra~~	✓		~~O~~
Hibbertia hypericóideo		✓	✓/R
Acacia saligna	✓		✓/R.
Corothamnus quadrifidus	✓		✓/R
Isopogon asper	—		✓/R
Acacia pulchella	—		✓
Xanthorrhoea gracilis	—		R

SHRUBS (cont.)	No	Fl	ID

GRASSES	No	Fl	ID
Danthonia sp.		✓	✓/R
Brachypodium distachyon		✓	R
Microlaena stipoides		✓	✓/R
Stipa pycnostachya		✓	R.
Stipa elegantissima		✓	R.
Neurachne alopecuroidea	—		✓/R
Briza maxima	—		✓/R

HERBS	No	Fl	ID
Stackhousia monogyna	✓	✓	✓/R
Dioscorea hastifolia	✓		✓/R
Caesia micrantha	✓	✓	✓/R
Traehymene pilosa	✓	✓	✓/R
Homalosciadium homalocarpum	✓		✓/R
Linum trigynum		✓	R
Bartsia trixago		✓	R
Centaurium erythraea		✓	R
Anagalis arvensis		✓	✓/R
Hypochaeris glabra		✓	✓/R
Sonchus oleraceus		✓	R
Trysanotus manglesianus		✓	✓/R
Stylidium bulbiferum (?)	—		✓/R

HERBS (cont.)	No	Fl	ID
Laxmannia squarrosa		✓	O
Oxalis perennans	✓		✓/R
Sowerbaea laxiflora		✓	R
Ptilotus drummondii drum.		✓	R
Billardiera candida (hairy calyx)		✓	R ADJ:
Cassytha pomiformis		✓	R
Rickxia elatine ssp elatine			✓
Caladenia marginata	✓	✓	✓
Caladenia sp. indet	✓		✓
Haemodorum discolor		✓	✓/R
Ursinia anthemoides		—	✓/R
Homeria flaccida	—		✓/R
Cheilanthes austrotenuifolia	—		R
~~Muellerbaeckea adpressum~~	—		✓/R
Romulea rosea	—		✓
NE Dampiera ? sp. indet	—		✓
Arthropodium capillipes	—		✓/R
	—		✓
Scaevola glandulifera	✓		

SEDGES	No	Fl	ID
Desmocladus asperus		✓	✓/R

```
Ramphotyphlops aff. grypusB...|                    |      |      |   | |   |          *      |       |                                |
Delma nasuta..................|                    |      |      |   | |   |          *    * |       |                                |
Diplodactylus michaelseni.....|                    |      |      |   | |   |               * |       |                                |
Pseudechis australis..........|                    |      |      |   | |   |               * |       |                                |
Vermicella multifasciata......|                    |      |      |   | |   |             *   |       |____                            |
Crenadactylus ocellatus.......|          *         |      |      |   | |   |    ****    *    |  *    |   |                            |
Ctenotus alleni...............|          * *       |      |      |   | |   |    ***          |       |   |                            |
Menetia aff. surdaB...........|          *         |      |      |   | |   |   ** **     * * |   *   |   |                            |
Ctenophorus badius............|     **          *  |      |      |** | |   |**  **  *****  * |**     |   |                            |
Lerista elegans...............|**            *     |      |  * *  |   | |   |***    ********* |*****  |   |                            |
Morethia lineoocellata........|           * *    *|      |     *|   |*|   | **      *** *** |****** |   |                            |
Lerista lineopunctulata.......|*            *     |      |      |   | |   |**** **  ********|  * ** |   |                            |
Lerista aff. praepeditaA......|          *         |      |      |   | |   | * **********    |  *****|   |                            |
Menetia amaura................|          ****      |      |      |   | |   |    *   *  **** *|  *** *|   |                            |
Ctenotus fallens..............|                    |      |      |   | |   |     *** *  ** * | ** *  |   |                            |
Diplodactylus aff. albogutA...|                    |      |      |   | |   |     *****   ****| ** ** |   |                            |
Cyclodomorphus celatus........|                    |      |      |   | |   |     ***    *  * |   **  |   |                            |
Vermicella littoralis.........|                    |      |      |   | |   |         *  **** |    **  |   |                            |
Diplodactylus ornatus.........|                    |      |      |   | |   |        *     ***|** **  |   |                            |
Lerista aff. praepeditaB......|               *    |      |      |   | |   |         *  *****|*      |   |                            |
Lerista varia.................|                    |      |      |   | |   |        *    *****|       |   |                            |
Tiliqua rugosa................|               *    |      |      |   | |   |             ****|       |   |                            |
Lialis burtonis...............|        *         * |      | **   |   | |   |         *   * * |   **  |___|__                          |
Aprasia haroldi...............|                    |      |      |   | |   |                 |*      |   |                            |
Ramphotyphlops australis......|                    |      |      |   | |   |                 |*      |   |                            |
Arenophryne rotunda...........|                    |      |      |   | |   |                 |* *****|   |                            |
Diplodactylus spinigerus......|                    |      |      |   | |   |                 |******  |   |                            |
Pletholax gracilis............|                    |      |      |   | |   |             *   |*  * * |   |                            |
Tympanocryptis parviceps......|                    |      |      |   | |   |            *    |***    |   |                            |
Pygopus lepidopodus...........|                    |      |      |   | |   |                 |   *   |   |                            |
Tympanocryptis adelaidensis...|                    |      |      |   | |   |                 |   *   |   |                            |
Vermicella bimaculata.........|                    |      |      |   | |   |                 |   *   |   |                            |
Cryptoblepharus carnabyi......|                    |      |      |   | |   |                 |    * *|   |                            |
Ctenotus lesueurii............|                    |      |      |   | |   |                 |    * *|   |                            |
Lerista humphriesi............|                    |      |      |   | |   |                 |    *  |   |                            |
Ctenophorus maculatus.........|                    |      |      |   | |   |      **         |    ***|   |                            |
Lerista decora................|                    |      |      |   | |   |             **  |    ***|   |                            |
Delma aff. australisA.........|                    |      |      |   | |   |     *           |    *  |   |                            |
Lerista aff. kendrickiA.......|                    |      |      |   | |   |   * * *         |    *  |   |                            |
Neobatrachus pelobatoides.....|                    |      |      |   | |   |                 |      *|___|_____________               |
                              |--------------------+------+------+---+-+---+-----------------+-------|                 |              |
Cryptoblepharus plagiocephalus| *                  |      |      |   | |   |                 |       |                 |              |
Denisonia fasciata............|         *          |      |      |   | |   |                 |       |                 |              |
Diplodactylus aff. pulcherB...| *    ** **         |      |      | * | |   |                 |       |                 |              |
Egernia depressa..............|** ***              |      |      |   | |   |                 |       |                 |              |
Furina ornata.................|            *       |      |      |*  | |   |                 |       |                 |              |
```

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Walyunga NP East bank wandoo **SITE NUMER** WAYL 12

DATE TRIP 6/9/96 **RECORDERS** AM ML

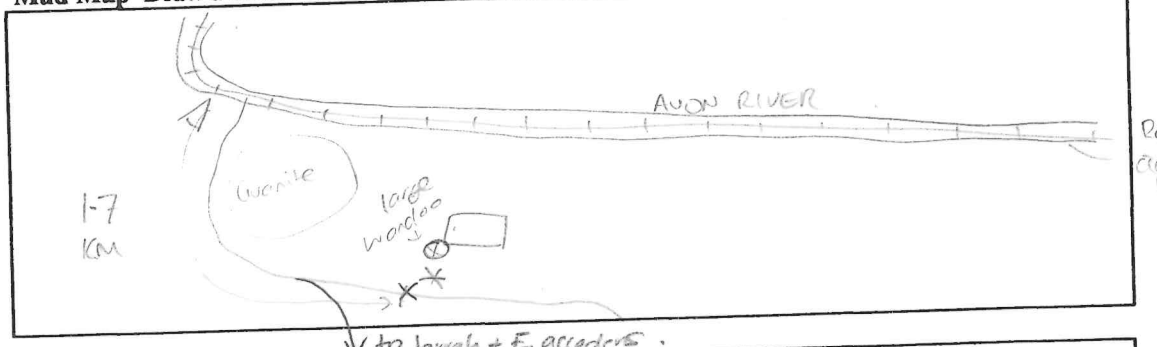
DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

E. wandoo : 700m upslope from WAYL 11 (on odometer)

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location

31° 43' 37.6" 116 05 03.4

Geographic Location **Latitude** 31 43 37.0 **S** **Longitude** 116 05 03.4 **E** **Altitude** 220m
GPS - No. F/X **Accuracy** ±300
Map Sheet Avon valley 6SAT3 6SAT3.

Photograph **Name** **Number** 18 (#17 R1)

Topographic Position (Circle the correct response)

Upland ***Lower slope***
Upper slope ***Valley***
Midslope ***Washline***

4 in Valley

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** 2-5 ***Aspect*** **N NE E SE S SW W NW** 7

Surface Soil Gravelly loam clay clayey gravel. ***Depth to Rock*** >1m 1m gr clay ***Colour*** Dk Brown.

Exposed Rock type Gravel % surface cover 20% size range 1 - 5cm.

Litter 30 % surface cover Depth (cm) 3-5cm.

Bare Ground 30 % surface cover)

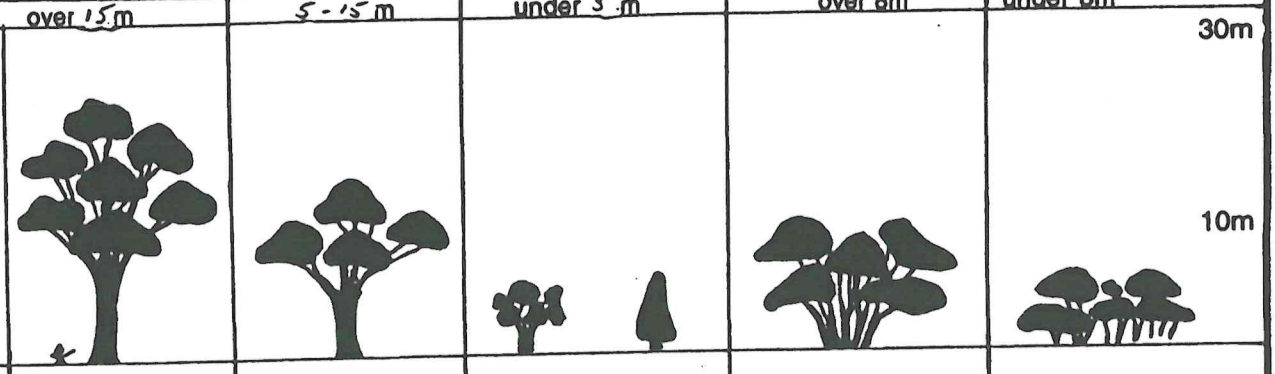
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

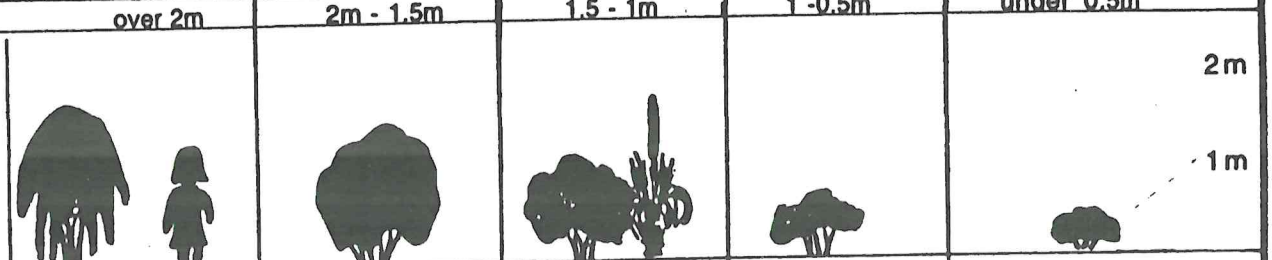
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

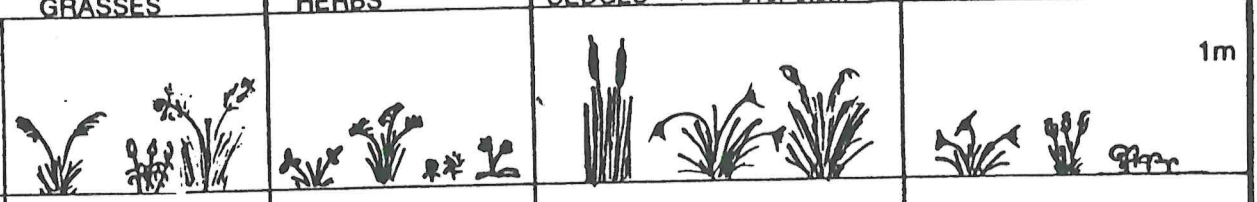
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10%-30			
DOMINANT SPECIES		E. wandoo			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10%	2-10%	2-10%		Hibbertia hypericoides
DOMINANT SPECIES	X. preissii →	X. preissii	X. preissii		Dry. nivea
	Macrozamia reidlii →	Macrozamia	Macrozamia		H. tissocarpha
					Phy cal

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				
COVER CLASS (%)				–
DOMINANT SPECIES		mixed herb		–
		u/storey		–
		Cacia sp.		
		Chamosila coryloss		

4. VEGETATION CONDITION

Comments Some weed invasion. 3/5

& Goat herbivory/damage

3

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Waylunga NP. East Bank Granites **SITE NUMER** WAYL 11

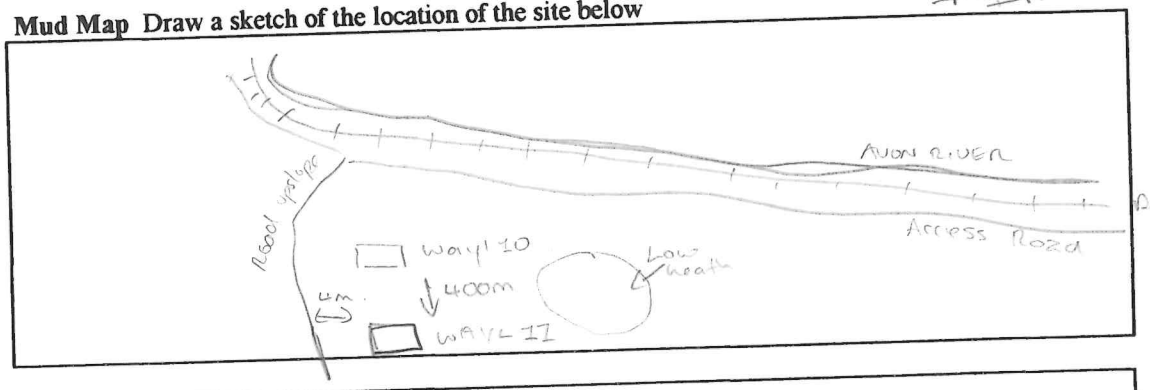
DATE TRIP 6/9/96 **RECORDERS** AM ML

DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location

Geographic Location	**Latitude** 31 43 57.1 **S**	**Longitude** 116 04 48.8 **E**	**Altitude** 130M
	GPS ✓	**Accuracy**	
	Map Sheet Avon Valley	PDOP 3.1	

Photograph	**Name**	**Number** 17	#16 Roll #1

Topographic Position (Circle the correct response)

Upland	***Lower slope***
Upper slope	***Valley***
Midslope	***Washline***

Valley midslope = 8
Midslope = 8

2. SITE DATA Circle the correct response

Slope **flat** **gentle** 2 **steep** ***Aspect*** **N NE E SE S SW** 6 **W NW**

Surface Soil Clayey sand ***Depth to Rock*** ~~NA~~ 0.5 – 1m ***Colour*** Orange light orange

Exposed Rock type Granite % surface cover 10 size range 5cm – 1.5m

Litter 30 % surface cover Depth (cm) 3 – 5cm.

Bare Ground 30 % surface cover)

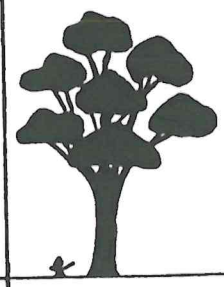
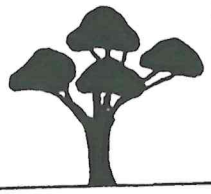
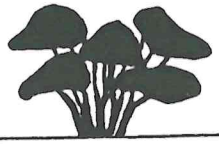
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

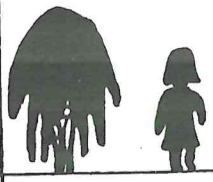
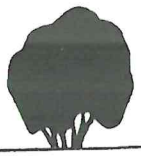
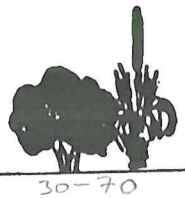
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

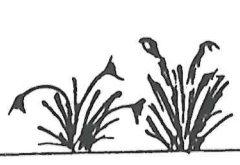
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					30m  10m
COVER CLASS (%)					
DOMINANT SPECIES					

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					2m 1m
COVER CLASS (%)	2 - 10 %		30 - 70	30 - 70	30 - 70 %
DOMINANT SPECIES	Grevillea enderiana sp? (check)		Acacia sp? (long) Verticordia sp (yellow) Melaleuca ~~scabra~~ foliosa Acacia sp (bark)	→ Daviesia → Hibbertia	Dry nid ottiodiana subnudg

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				1m 
COVER CLASS (%)		30 - 70%		-
DOMINANT SPECIES		Borya Conostylis sp. Chamaescilla		-

4. VEGETATION CONDITION

Comments 4.5 Goat grazing & adjacent tracks!

condition

2

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Waylunga NP on North-east corner **SITE NUMER** WA/L 15

DATE TRIP 6/9/96 **RECORDERS** AM ML

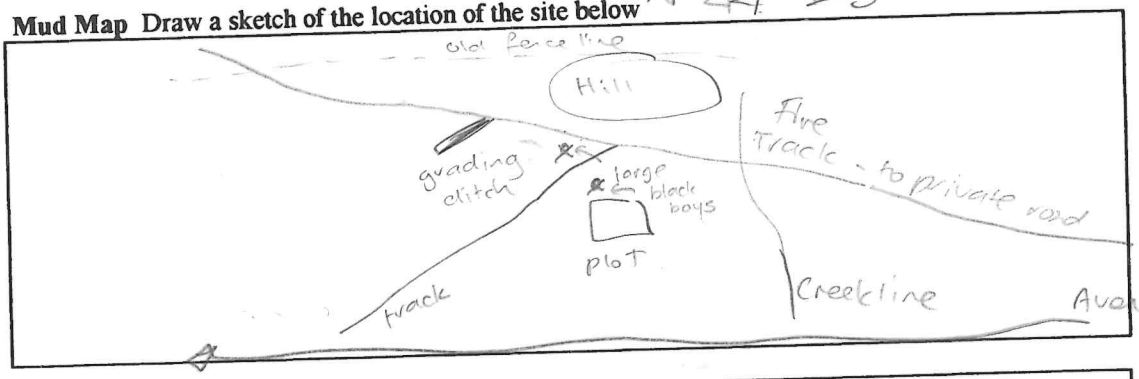
DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

Peg behind one blackbody

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below N E S



Road Location A N-East Access road off private road

Geographic Location **Latitude** 31 43 03.4 **S** **Longitude** 116 05 11.7 **E** **Altitude** 170m
GPS ✓ **Accuracy**
Map Sheet PDOP 3.1

Photograph **Name** **Number** 21 (#20 R1)

Topographic Position (Circle the correct response)

Upland		***Lower slope***
Upper slope	5	***Valley***
Midslope		***Washline***

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** 2.5 ***Aspect*** **N NE E SE S SW W NW** 4

Surface Soil clayey loam ***Depth to Rock*** 50 – 100cm ***Colour*** Dk Brown

Exposed Rock type granite % surface cover 15% size range 1cm – 40cm

Litter 35 % surface cover Depth (cm) 3 - 10cm

Bare Ground 10 % surface cover)

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

Granite

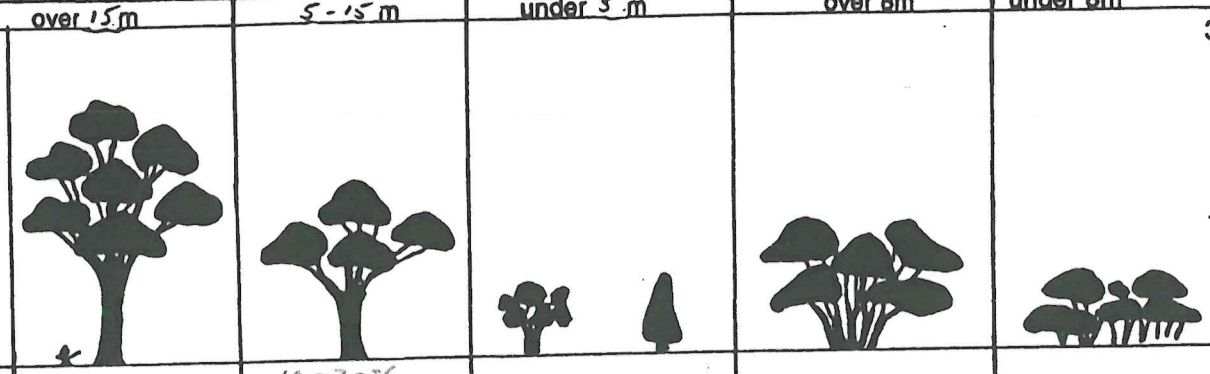
appears to be exposed granite

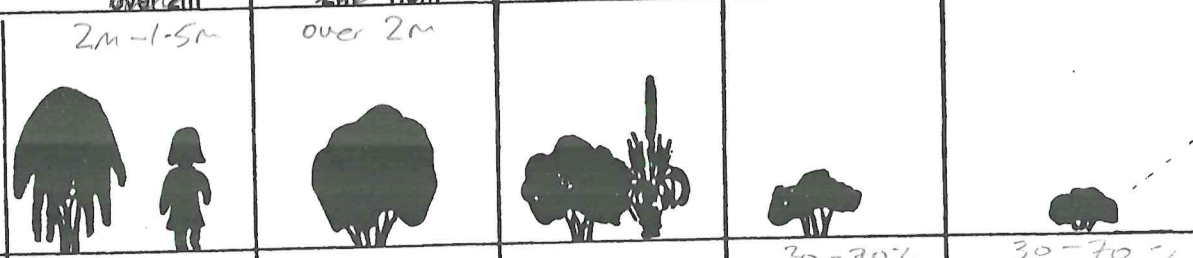
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

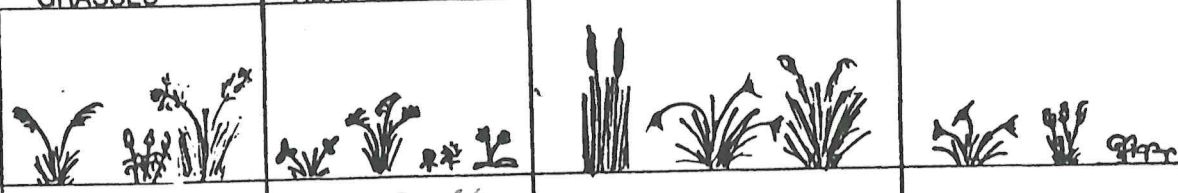
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		10-30%			
DOMINANT SPECIES		• E. calophylla			

	SHRUBS				SHRUBS
	~~over 2m~~	~~2m - 1.5m~~	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM	2m - 1.5m 	over 2m			
COVER CLASS (%)	30-70%			30 - 70%	30 - 70 %
DOMINANT SPECIES	H. cristata • Gastrolobium spinosum - Acacia pulchella • Xanthorrhoea preissii			H. augustifolium ~~Acacia hypericoides~~ Calothamnus quad	Dry. niyea Phy cal • Hibb hypericoides

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		30 - 70 %			-
DOMINANT SPECIES		Cheilanthes sp. Arthropodium Chamaesila corymbosa			-

4. VEGETATION CONDITION

Comments 4/5. Some disturbance nearby - weed invasion + grading

2

NB: Steep embankment to enter WA409.

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Waylunga East bank **SITE NUMER** WAYL10

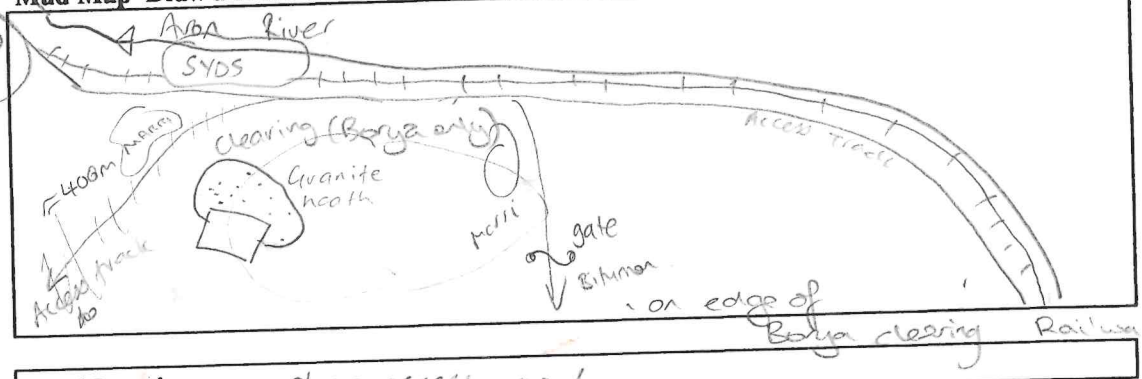
DATE TRIP 5/9/96 **RECORDERS** AM + ML

DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location * steep access road

Geographic Location **Latitude** 31 44 02.0 S **Longitude** 116 04 40.0 E **Altitude** ~~60m~~ 100m
GPS ✓ **Accuracy** PDOP 2.7
Map Sheet AVON ~~VALLEY~~ & VALLEY

Photograph **Name** **Number** 16 (# 15 Roll #1)

Topographic Position (Circle the correct response)

Upland	*Lower slope*
Upper slope	*Valley*
Midslope of valley!	*Washline*

- from Map, below WAYL11 = Midslope of valley = 8 ↳ exposed 20° steep "face"

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** 3 ***Aspect*** **N NE E SE S SW W NW** 7

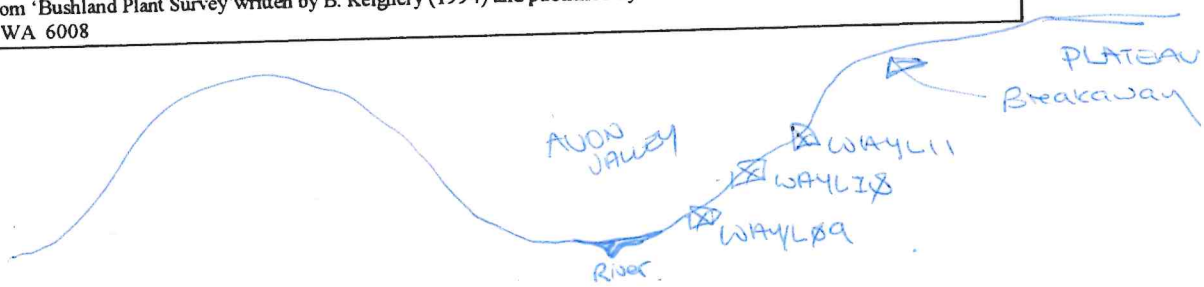
Surface Soil ~~Gritty sand~~ clayey sand ***Depth to Rock*** 30cm clayey grit pallid yellow clay ***Colour*** yellow-brown

Exposed Rock **type** Granite (Quartz) **% surface cover** 15 % **size range** 5-60cm

Litter 20 **% surface cover** **Depth (cm)** ~~2 5 60cm~~ 1-5cm

Bare Ground 25 **% surface cover)**

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

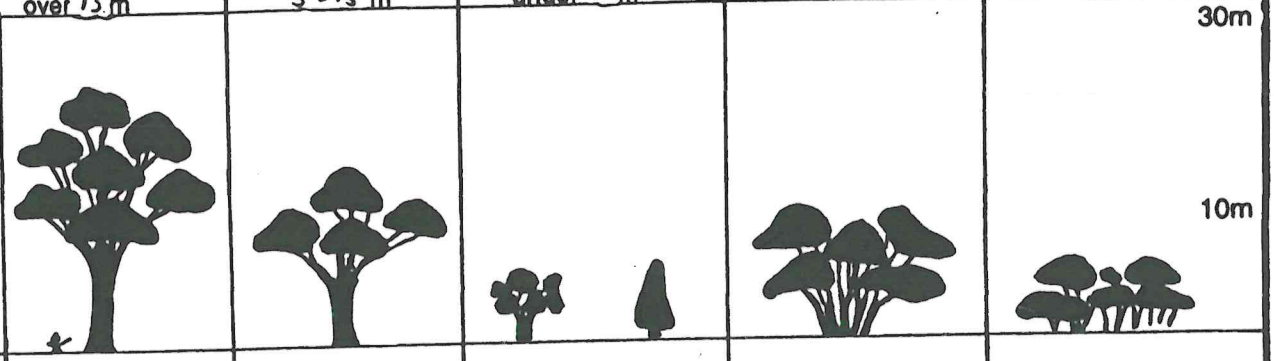


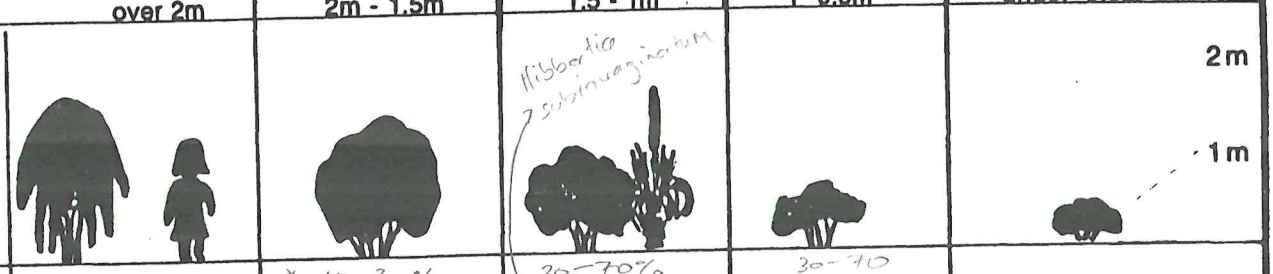
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

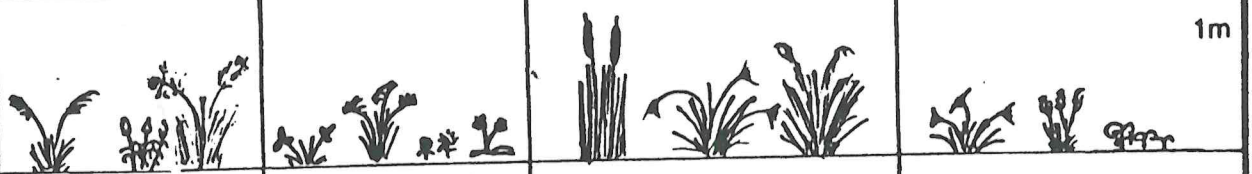
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		* 10-30 %	30-70%	30-70	
DOMINANT SPECIES		Petrophile biloba Hakea undulata	Hibbertia subvaginata Calytrix sp. Dryandra arctata Verticordia yellow sp → Beaufortia purpurea → Hovea pungens →	Calothamnus sanguinea	

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				
COVER CLASS (%)		~~10-30%~~ 30-70%		–
DOMINANT SPECIES		- Borya sphaerocephala		–

4. VEGETATION CONDITION

Comments 5/5 ! closed tall heath (Ht 5 (1-1.5m)

Dominated by P. biloba.

10 few (Pony) weeds

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Waylunga NP. - Northern Boundary x wandoo on ridge **SITE NUMER** WAYL 13

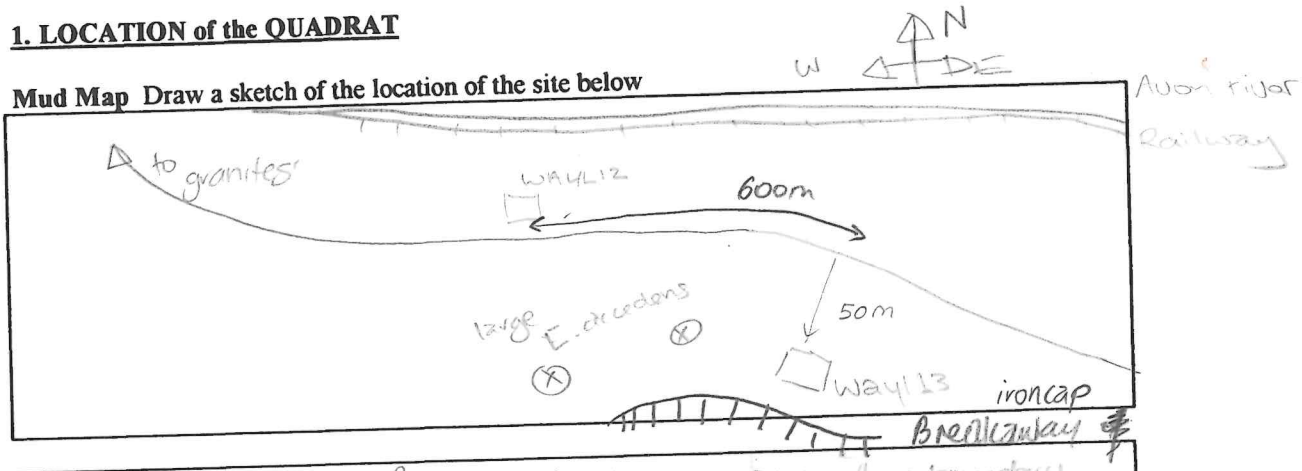
DATE TRIP 6/9/96 **RECORDERS** AM ML

DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location Road in from private land - over northern boundary

Geographic Location **Latitude** 31 43 29.1 **S** **Longitude** 116 05 14.0 **E** **Altitude** 230m
GPS ✓ **Accuracy** PDOP 4.9
Map Sheet AVON VALLEY

Photograph **Name** **Number** 19 Roll # 1. (# 18 Roll #1)

Topographic Position (Circle the correct response)

Upland	*Lower slope*
Upper slope	*Valley*
Midslope	*Washline*

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** (2-5) ***Aspect*** **N NE E SE S SW W NW** (8) 320° NW 35 1 N 360 1 28 W

Surface Soil Gravelly loam ***Depth to Rock*** >1m (v. deep) ***Colour*** Dk Brown

Exposed Rock type laterite **%** surface cover 30% size range 2 - 50cm

Litter 30 **%** surface cover Depth (cm) 5-15cm

Bare Ground 35 **%** surface cover)

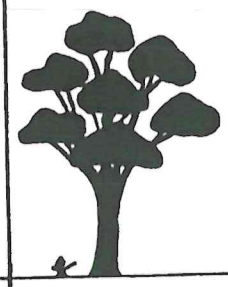
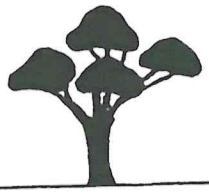
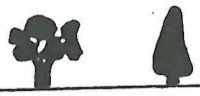
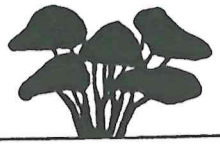
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

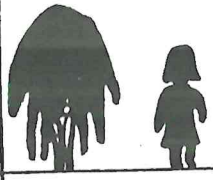
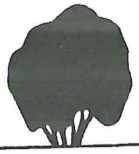
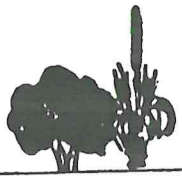
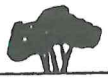
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

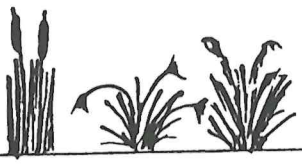
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					30m  10m
COVER CLASS (%)	2-10%	10-30%			
DOMINANT SPECIES	E. accedens	E. accedens E. wandoo			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					2m  1m
COVER CLASS (%)			2-10%		30-70%
DOMINANT SPECIES		~~X. preissii~~ ~~Macrozamia riedlii~~	X. preissii Macrozamia riedlii		Hibbertia hypericoides Hak. lisso Phy. cal. Dry. bimi

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				1m 
COVER CLASS (%)		2-10%		--
DOMINANT SPECIES		Lagenifera huegelii Ursinia Chamosilla Romulea		- -

4. VEGETATION CONDITION

Comments 3.5 /10 . Some weeds .

2

Upland Jarrah

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Waylung Np Plateau East of Valley along dogleg track **SITE NUMER** ~~[illegible]~~ WAYL13

DATE TRIP 6/9/96 **RECORDERS** AM ML

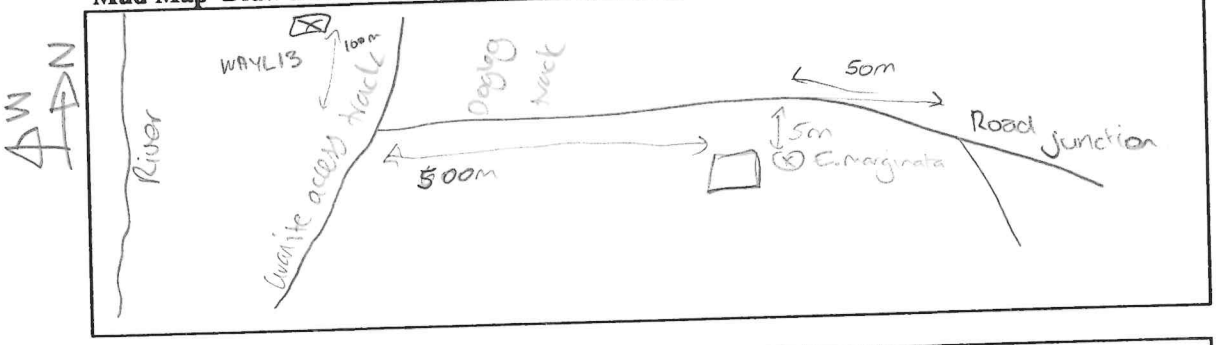
DATE TRIP **RECORDERS**

DATE TRIP **RECORDERS**

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below

600m from WAYL13



Road Location - along south side Dogleg track. Firebreak

Geographic Location **Latitude** 31 43 35.9 **S** **Longitude** 116 05 20.7 **E** **Altitude** 240
GPS — **Accuracy** HDOP 1.9
Map Sheet AVON VALLEY

Photograph **Name** **Number** 20 (#19 R1)

Topographic Position (Circle the correct response)

Upland ***Lower slope***
Upper slope ***Valley***
Midslope ***Washline***

5

2. SITE DATA Circle the correct response

Slope **flat** **gentle** **steep** 1.0 ***Aspect*** **N NE E SE S SW W NW**

Surface Soil Gravelly loam ***Depth to Rock*** 50cm ***Colour*** Dk brown

Exposed Rock type lateritic gravel % surface cover 40% size range 2-50cm.

Litter 30 % surface cover 30% **Depth (cm)** 5-10cm

Bare Ground 15-20 % surface cover)

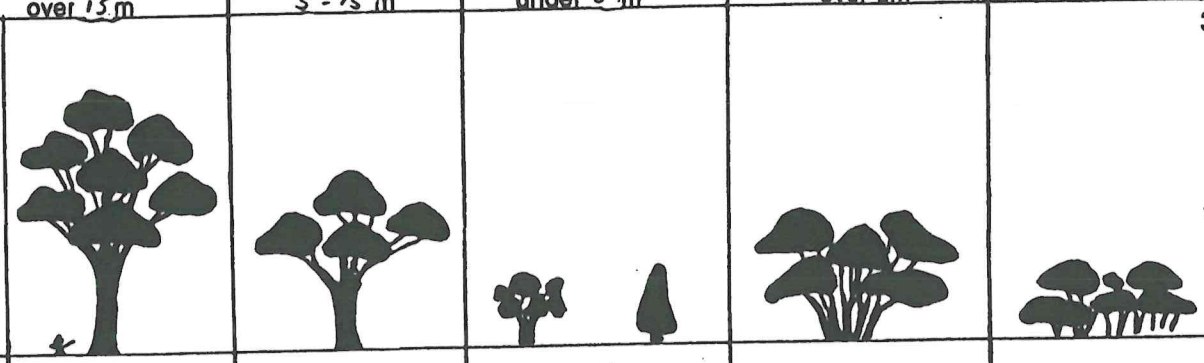
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

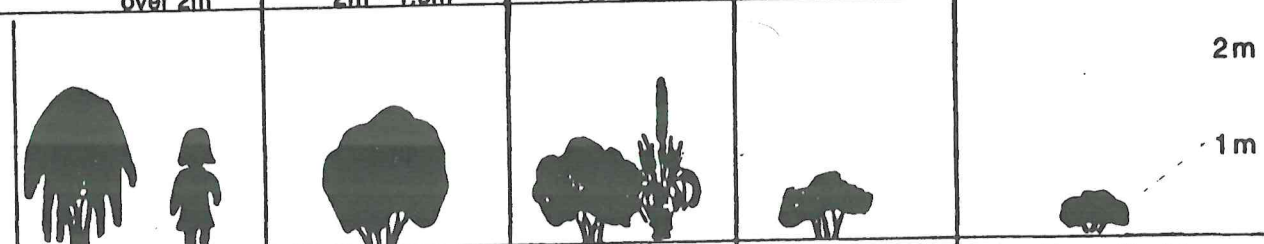
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

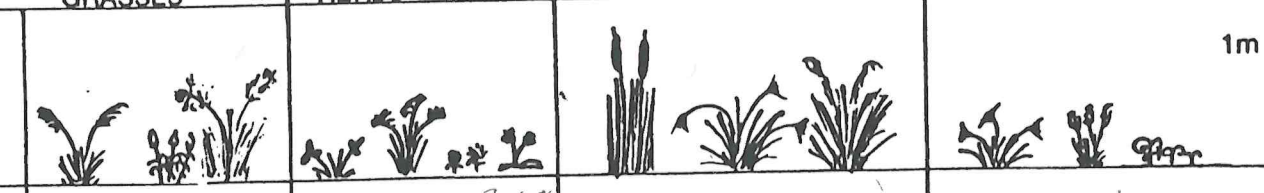
3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below).and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%

	TREES			MALLEES	
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2-10%	10-30%	2-10%		
DOMINANT SPECIES	E. calophylla	E. marginata ~~[illegible]~~	E. marginata		

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 -0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10%		2-10%		30-70%
DOMINANT SPECIES	Dry. sessilis		H. undulata X. preissii		Dry. nivea Hyp. hypericoides Daviesia sp. ~~[illegible]~~

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				
COVER CLASS (%)		~~10-30%~~ 2-10%		2-10%
DOMINANT SPECIES		Drosera erythrorhiza Chamaescilla corymbosa		Lomandra spp. dep. tenuis

4. VEGETATION CONDITION

Comments 3½ ~~4~~ 3-3½ . few weeds!
History of logging - thinned!

3

for UPAULOO - D. fraseri is D. sp.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	NAYL01
Date	3/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
E. calophylla			
MALLEES			
SHRUBS			
X. preissii			
Calothamnus quadrifidus			
H. ericaea			
Hypocalymma angustifolium			
Acacia pulchella			
Dryandra ~~[illegible]~~ ? → Dry. nivea			✓
Baeckea camphorosmae			
Hibbertia hypericoides			✓
Hibbertia sp? subvaginata - ?			✓
Thomasia sp.			✓
Dryandra nivea			
X. gracilis			✓
Stylidium sp.			✓
Drosera erythrorhiza			
~~Chamasia~~			

SHRUBS (cont.)	No	Fl	ID
Conostylis setosa			✓
Rhamnaceae sp - ? coll.			✓
Gompholobium marginatum			
Adenanthos sp? Isopogon asper?			✓
Hakea undulata			✓
GRASSES			
Tr			
HERBS			
Chamasia corymbosa			✓
Cassytha			✓
Lepidosperma tenui - →			
Phyllanthus calycinus			✓
~~Aber~~ Anagalis - (Pimpernel) Anagalis arvensis			
Lagenifera huegelii			✓
Anthericacea ? - id. (Agrostocrinum)			✓
Gladiolus sp. Caesia micrantha			
Thelymitra sp			✓
Eryngium (Apiaceae)			✓
Grevillea pilulifera			

HERBS (cont.)	No	Fl	ID
Hydrocotyle -			
Pterostylus sp.			✓
Thysanotus manglesioides -			✓
~~Vertiveria~~			
SEDGES			
Loxocarya sp. fimbriata			
Lomandra sp - preissii ?	✓		
Adjacent Granite plants			
- Chelianthes			
- Hibbertia - Elevate leaves			✓
- Hakea incrassata			✓
H. commutata?			

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYLD1
Date 27.11.96
Rescue

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
MALLEES			
SHRUBS			

SHRUBS (cont.)	No	Fl	ID
GRASSES			
densely hairy leaves			
HERBS			

HERBS (cont.)	No	Fl	ID
thomasia foliosa			✓
Arthropodium capillipes			✓
Haemodorum sp			✓
Hairy-leaved grass			✓
Dry. cal			✓
Dry. armata			✓
dep. tetele rough			
Thysanotus ? patersoni			✓
Burchardia congesta			✓
Cassytha sp			✓
Hibb. subvaginatum			✓
Styl. bulbiferum			✓
Gladiolus			✓
SEDGES			
Hibbertia commutata ?			✓
Caesia micrantha			✓
Tricoryne elatior			✓
Small annual grass			✓
Opp-leaved dicot weed			✓
Medicago sp			✓
Oxalis sp			✓
Thelymitra ~~rinita~~			✓
Hibb. co			

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No	WAYUD1
Date	3.9.96
	26.11.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Euc calophylla		✓	✓/R
SHRUBS			
Xanthorrhoea preissii	—		✓/R
Calothamnus quadrifidus	—		✓/R
	—		✓/R
Hakea evinacea	—		✓/R
Hypocalymma angustifolium	—		✓/R
Acacia pulchella var pulchella	✓		✓/R
Hibbertia subvaginatum	✓		✓/R
Hibbertia commutata	✓	✓	✓/R
Isopogon asper	✓		✓/R
Thomasia foliosa	✓	✓	✓/R
~~Acanthocarpus preissii~~		✓	✓
Grevillea pilulifera		✓	✓/R
Xanthorrhoea gracilis	✓	✓	✓/R
(appears to be X. gracilis) ok			
Cryptandra arbutiflora arbuti.	✓		✓/R
Dryandra armata	✓		✓/R
Dryandra lindleyana lindl.	✓		✓/R
Hibbertia hypericoides		✓	✓/R
Phyllanthus calycinus		✓	✓/R
~~Melaleuca aff. scabra~~		✓	✓
Baeckea camphorosmae	—		✓/R
~~Dryandra lindleyana lindleyana~~	—		✓/R
Gonocholdium marginatum	—		✓/R
Hakea undulata	—		✓/R
ADS Hakea incrassata	—		✓/R

SHRUBS (cont.)	No	Fl	ID
GRASSES			
Briza minor	✓	✓	
Bromus madritensis		✓	R
Microlaena stipoides		✓	R
HERBS			
Stylidium bulbiferum (not conf)	✓		✓
Eryngium pinnatifidum	✓		✓/R
Cassia nicrantha	✓	✓	✓/R
Burchardia congesta	✓	✓	✓/R
Chamaescilla corymbosa var corymbosa	✓		✓
Lagenifera huegelii	✓		✓/R
Anagallis arvensis		✓	✓/R
Thysanotus manglesianus		✓	✓/R
Galium divaricatum		✓	
Tricoryne elatior		✓	✓/R
Conostylis setosa		✓	✓/R
Cassytha pomiformis		✓	✓/R
Billardiera coeruleo-punctata		✓	✓

misidentified H. commutata

HERBS (cont.)	No	Fl	ID
Oxalis perennans		✓	R
Linum trigynum		✓	R
Centaurium erythraea		✓	R
Pterostylis vittata	✓		✓
Thelymitra crinita	✓		✓/R
~~Moss~~			
Petrorhagia velutina		✓	
Drosera erythrorhiza		—	✓/R
Gladiolus sp. sterile		—	✓/R
Arthropodium capillipes		—	✓/R
ADS: Choilanthes austrotenuifolia		—	✓
Haemodorum sp.		—	✓/R
SEDGES			
Desmocladus aspera	✓	✓	✓/R

had the highest Kruskal-Wallis value, it did not conform to the species richness gradients in **Figure Assem1.2wa** as closely as did pH(H_2O). The discrepencies involved GJ2 and KE3. Soil pH($CaCl_2$), EC and N6 showed the same relationships as pH(H_2O), while an array of climatic and geographical attributes tracked TdiurRa **(Table Histo-assem1).** In the Irwin-Carnarvon study area, high TdiurRa, high longitude and high altitude values are surrogates of distance inland.

- Assemblage_2's compositional structure **(Fig. Assem2.2wa)** conformed with a winter precipitation gradient (PwetQ, **Fig. Histo_assem2)** across sandy quadrats of the temperate and/or coastal parts of the study area. This gradient was strongly inter-correlated with three other climatic gradients and, to a lesser extent, with soil potassium (K(H_2CO_3), **Table histo-assem2**). Patterns of allopatry among *Diplodactylus, Tympanocryptus* and *Lerista* were not reflected by the histograms.
- Assemblage_3's species richness (**Fig. Assem3.2wa**) conformed with potassium, and with silt and clay textural fractions in non-saline soils (**Fig. Histo_assem3**). Soil shear-strength near the top of the profile provided a gestalt of these measures. While high Kruskall-Wallis coefficients were also noted for several climatic attributes and soil carbon (**Table Histo_assem3**), there were several distinct mis-matches between the observed gradient in species composition and climatic values at quadrats such as KE1-2 and MR2-4 (**Fig. Histo_assem3**). The displaced allopatric cluster comprising *Ctenotus uber, Lerista kendrikiB* and *Lerista muelleriD* at KE3-5, is visible in the shape of the annual precipitation (Pann) histogram **(Fig. histo_assem3f)**. Species associated with a small sandy rise on quadrat BB3 have been removed from the analysis because the soil sample came from the samphire.
- Assemblage_4 only occurred in areas subject to over-bank stream-flow (gs_over, **Fig. Histo_assem4**), a geomorphic process associated with riverine flats (Wyrwoll & Stoneman, this publication). The four singleton species are rock-scree dwellers; their presence on GJ1 is an ecotonal effect and was discussed earlier **(Fig. assem4.2wa).**

Table histo_assem1. Kruskall-Wallis values for physical attributes that showed significant (<0.05) differences between groups of assemblage_1 quadrats that had been clustered in terms of their species similarities (**Fig. Histo_assem1**).

Attribute	**Kruskal_Wallis value at 5 groups**	**Kendall's Tau (prob.) from Appendix 2.**
pH(H_2O)	13	
pH($CaCl_2$)	13	0.90 (***)
EC	13	0.59 (***)
N6	9	0.34 (***)
TdiurRa	15	- 0.40 (***)
TannRa	15	0.72 (***)
PcldQ	14	- 0.62 (***)
Longitude	13	0.80 (***)
TwarQ	13	0.66 (***)
PwetQ	13	- 0.46 (***)
Pseas	13	- 0.53 (***)

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE Label each plant with plants number, site code, date and plant's name or working name if required

SITE No	Wayl 02
Date	3/9/96

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
				Conostylis setosa				Thelymitra - ? large cotyledon			✓
				Dryandra nivea							
				Rutaceae sp? → ? Myrtaceae		#A1	✓	Hypochaeris glabra			✓
				Unnamed Pea - ? #A2			■	Quo [illegible] Quinetia urvillei			■
				'Nemaia spathulata'?			✓	Podolepis sp			■
								?Ursinia anthemoides ✓			■
MALLEES				Vert - insignis.				Hydsanthus manglesiana			
				GRASSES				Trachymene pilosa ✓			✓
								~~check~~			
				Pennisetum rosea			✓				
				Neurachne alopecuroides				Diuris corymbosa (?) check id			✓
SHRUBS				Gladiolus sp							
H. cristata				? Laxmannia sp? S			✓				
H. ericifolia				Briza maxima			✓	SEDGES			
X preissii				Grass - ~~not~~ sterile sp. ?			✓	- Lepidosperm UM - sp ??			
Melaleuca fulgens ll = radula								Lomandra ~~[illegible]~~ flex.			
Calothamnus quadrifidus											
Dryandra fraseri - X			✓								
Dryandra sumata ? X			✓	HERBS							
Hypocalyma angustifolium				Stylidium bulbiferum			✓				
Leptospermum erebescens.			■	Borya sphaerocephala			✓	Adjacent			
Thymelium ledifolium			■	Drosera erythrorhiza				Grevillea bipinnatifida			
Acacia pulchella				D. menziesii - climbing			✓	Thomasia sp. ?			
Hibbertia hypericoides				Haemodorum paniculatum ? —			✓	Chlianthes. (fern)			
Hibbertia sp? ~~[illegible]~~ commutata??			■	Burchardia congesta.			✓	Cheilanthes austrotenuifolia			
Leucopogon			✓	Chamosilene sp			✓				
~~[illegible]~~ sp ?				Arthropodium sp			✓				
Baeckea camphorosmae			✓	Anthericaceae sp? → ~~[illegible]~~			✓				
~~Microcorys~~ Microcorys sp.			■	Yellow - ~~[illegible]~~ - check Anthericaceae			✓				
				Hypoxis ?							
				~~[illegible]~~ c							

Calothamnus, M. radula, H. ericoides
low heath

High % weed infestation

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL02
Date 27.11.96
Rescore

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Quartz HO

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
								Dryandra fraserii		/	
								Melaleuca radula		/	
								Dryandra armata		/	
								Desmannia squarrosa		/	
								Acacia sp.		/	
								Hibbertia commutata		/	
MALLEES								Danthonia sp.		/	
								Lomandra sp		/	
				GRASSES				Schoenus sp. Blackbase		/	
								Stipa spp.		/	
								Verticordia		/	
SHRUBS								Agrostocrinum + Scilarum		/	
								SEDGES			
								Xan. gracillis		/	
								Cyperilla / Tryphalium seedling		/	
								scrophs.		/	
								unid. Tall grass		/	
				HERBS				Cape Tulip		/	
								Tricoryne elatior		/	

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL02
Date	3.9.96
	det8. 27.11.96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

~~TREES~~ SHRUBS.	No	Fl	ID
Hakea cristata	—		✓/R
Hakea erinacea	—		✓/R
Xanthorrhoea preissii	—		✓/R
Xanthorrhoea gracilis		✓	R
Melaleuca vadula	—		✓/R
Calothamnus quadrifidus	—		✓
Dryandra armata	—		✓/R
Hypocalymma angustifolium	—		✓/R
Acacia pulchella	—		✓/R
Hibbertia hypericoides	—		✓/R
Baeckea cimbiforosae	—		✓/R
~~Melaleuca vadula~~	✓	✓	✓/R
Leptospermum erebescens	✓	✓	✓/R
Hibbertia commutata	✓	✓	✓/R
Nemcia spathulata	✓		✓/R
Trymalium ledifolium var rosmarinifolium	✓	✓	✓/R
ADS: Thomasia foliosa	✓		✓
Microcorys longifolia	✓	✓	✓/R
Grevillea pilulifera		✓	R
Verticordia insignis ssp insignis	✓	✓	✓/R
~~Xanthorrhoea sp. (gracilis?)~~		✓	✓
~~Bossiaea fraseri var fraseri~~		✓	—
Leucopogon pulchellus	✓		✓/R
Leptospermum erebescens	✓		✓/R
~~Daviesia preissii~~		✓	✓
Dryandra fraseri fraseri	✓	✓	✓/R
Dryandra lindleyana lindl		—	✓/R
ADS: Grevillea bipinnatifida	—		✓
ADS: Cheilanthes austrotenuifolia	—		✓

SHRUBS (cont.)	No	Fl	ID
Conostylis setosa (setigera?)	—		✓/R
Gladiolus sp. (sterile) ↳ caryophyllacea	—		✓/R
Neurachne alopecuroidea	—		✓
GRASSES			
Briza maxima		✓	✓/R
Amphipogon sp.	✓		
Stipa pycnostachya	✓		✓/R
Stipa elegantissima	✓	✓	✓/R
Avena sp.		✓	R
Brachypodium distachyon		✓	R
~~Ursinia anthemoides~~		✓	
Danthonia setacea		✓	R
S			
HERBS			
~~Thelymitra ornata~~	✓		✓
~~Diuris aff corymbosa affinity?~~	✓		?
Thelymitra antennifera	✓		✓
~~Hypoxis occidentalis~~	✓		✓
Quinetia urvillei	✓		✓/R
Podolepis lessonii (sterile)	✓		✓/R
Ursinia anthemoides	✓	✓	✓/R
Caesia micrantha	✓	✓	✓
Bartsia trixago		✓	R
Hypoxis scabrum		✓	R
Romulea rosea		✓	✓
Homeria flaccida		✓	R
Triconyne elatior		✓	✓/R

HERBS (cont.)	No	Fl	ID
Trachymene pilosa		✓	✓/R
Hypochaeris glabra		✓	✓/R
Stylidium bulbiferum??		✓	✓/R
Daucus glochidiatus		✓	R
Levenhookia pusilla		✓	R
Dichopogon capillipes		✓	✓/R
Laxmannia squarrosa	✓		✓/R
Drosera pallida	✓		✓
Haemodorum spicatum	✓	✓	✓/R
Burchardia congesta	✓	✓	✓/R
~~Thely crinita~~	✓		✓/R
Diuris aff. corymbosa	✓		✓
~~Thely antennifera~~	✓		✓
Haemodorum discolor		✓	✓/R
Caes			
Bonja sphaerocephala	—		✓/R
Drosera erythrorhiza	—		✓/R
Chaetadilla corymbosa	—		✓/R
Thysanotus manglesianus	—		✓
~~ADS: Cheilanthes austrotenuifolia~~	—		✓
SEDGES			
Schoenus grammatophyllus	✓	✓	R
~~Lomandra fasciculata~~ ? Hexuosa = Desm. aspera	—	—	✓/R

x recheck flats ✓
Look for later
Annual Sedges.

Collect Opercularia

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL03
Date	3/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
MALLEES			
SHRUBS			
Xanthorrhea preissii			
Hakea erinacea			
Calothamnus quadrifidus			
Isopogon dubius			✓
H. angustifolium			✓
Acacia pulchella			✓
Leucopogon sp (as at WALY02)	pulchellus		✓
Dryandra falcata x fraseri			✓
Dryandra nivea			✓
Hibbertia hypericoides			✓
Pimelia sp. imbricata			✓
Hibbertia sp (Grey leaved as at site WALY02)			✓
H. lasiopus?			
Grevillea pulilifera			
Petrophile sp. - ? Isopogon asper (as in WALY01)			✓

SHRUBS (cont.)	No	Fl	ID
Baeckea camphorosmae			
~~[illegible]~~			
Grevillea marginatum			
Cassytha sp.			✓
Neurachne ? ~~[illegible]~~			✓
GRASSES			
Unnamed grass sp. - ~~Danthonia sp.~~			✓
Neurachne alopecoides			✓
Briza maxima			
Danthonia			
White flowered Anthericaceae (from WALY01)			
• Hypoxis.			✓
• Burchardia umbellata			✓
HERBS			
• Lageniferа huegelii			
• Stylidium bulbiferum			✓
• ~~[illegible]~~ • Stylidium ~~whorled~~ sp. brunonianum			✓
Chaenocalla rosulata			
Gladiolus			
Drosera ~~[illegible]~~ ? menziesii			✓
D. erythrorhiza			✓
Lomandra ursea			
Borya sphaerocephala			✓
Patersonia ?? Hairy leaf margin.			
Eriochylis (Orchidaceae) sp?			
Hypochaeris glabra			✓

HERBS (cont.)	No	Fl	ID
Trachymene pilosa			✓
Quinetia urvillii			
Pterostylis sp (as in WALY01)			✓
Rosetteda anthericaceae ~~Thy. tenellus~~ ✓ ? (unnamed. Not flowering)			
Collected for id			
Ursinia anthemoides			
Opercularia - sp.			✓
Thysanotus - sp. ?			✓
Anagallis arvensis			✓
Levenhookia sp?			✓
Fruiting lily sp? - with bulb?			
SEDGES			
Lepidosperma ~~Rostratum~~ flex.			
Sedge ? } Rest.? } NH			✓
• Lomandra ? → check rhizome			✓
• Lepidosperma tenuis			
• Haemodorum paniculata.			✓
Several sterile orchid leaves			✓
ADJACENT PLANT			
Allocasuarina humilis.			

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL03
Date	27.11.96
	RESCORE

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
MALLEES			
SHRUBS			

SHRUBS (cont.)	No	Fl	ID
Burchardia congesta			//
Unid Seedling (↳ Acacia??)			
Tricoryne-like Dampiera			//
Thysanotus sp. climbing			//
Xanthorrhoea			//
GRASSES Lugovii			
Unid Petrophile sp? ↳ NOT SEEN			
Casyttia sp.			//
HERBS			
Isopogon aspera	//		✓
Burchardia congesta			//

HERBS (cont.)	No	Fl	ID
Actinotus sp			//
Dryandra fraseri			//
Hibbertia commutata?			//
Gladiolus sp.			//
Briza Minor			//
Schoenus sp			//
Blackboard			
Amphipogon			//
Stipa dolichostachya			//
unid weed grass			//
Verticordia sp			
Tricoryne elatior			//
Hypochaeris glabra			//
~~SEDGES~~			
Danthonia sp			//
Hypoxis/Stylidium			//
Centrolepis aristata			//
Wahlenbergia			
Small Annual Schoenus			//
Lomandra nwillia			//
Homna homne			//
Aira caryophyllea			//
Daucus glochidiatus			/
Operculina hispidula			
Centrolepis brunnendigna.			//
Lomandra sp - small & hairy ↳ Schoenus			

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL03
Date	3.9.96.
	27.11.96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Xanthorrhoea preissii	✓	—	✓/R
Hakea ericaea	✓	✓	✓/R
Calothamnus quadrifidus	✓	—	✓/R
Dryandra fraseri var fraseri	✓	—	✓/R
Grevillea pilulifera	✓	—	✓
Baeckea camphorosmae	✓	—	✓/R
Gompholobium marginatum	✓	—	✓
Hibbertia commutata	✓	✓	?/R
Hypocalymma angustifolium	✓	✓	✓/R
Leucopogon pulchellus	✓		✓/R
Isopogon asper	✓		✓/R
~~Hakea ericaea~~	✓		✓
Leptospermum erebescens	✓		?
Isopogon dubious	✓		✓/R
ADJ: Saxeabaea laxiflora	✓		✓
Pimelea imbricata var piligera	✓	✓	✓/R
Hibbertia hypericoides	✓	✓	✓/R
Dryandra lindleyana ssp lindleyana		✓	✓/R
Acacia pulchella		✓	✓/R
ADJ: Allocasuarina humilis	✓	—	✓
~~Daviesia preissii (from WAYL02?? R Nuttall)~~			

SHRUBS (cont.)	No	Fl	ID
Tetra. crinita	✓		✓
Haemodorum discolor		✓	✓/R
Drosera menziesii	✓		✓
Drosera erythrorhiza	✓		✓
white flo. anthericaceae? (Caesia?) ✓ Caesia			
Burchardia congesta	—		✓/R
Lageniferra huegelii	—		✓/R
Caesia micrantha	—		✓/R
GRASSES			
Briza minor		✓	R
Aira caryophyllea		—	R
Briza maxima		—	✓/R
Brachypodium distachyon		✓	R
Danthonia setacea		✓	✓/R
Stipa pycnostachya		✓	R
Vulpia bromoides		✓	
Neurachne alopecuroidea		✓	✓/R
Amphipogon sp.		✓	R
HERBS			
Opercularia vaginatum	—	✓	✓/R
Thysanotus tenellus	✓		✓
Hypoxis occidentalis	✓		✓/R
Stylidium brunonianum	✓		✓/R
Borya sphaerocephala	✓		✓/R
Anigozanthos bicolor (sterile?)	✓		?
Good id leaves.			
Tricoryne elatior		✓	R
Actinotus leucocephalus		✓	R
Goodenia caerulea		✓	R
Centrolepis aristata		✓	✓/R
Stylidium bulbiferum (id?)		✓	✓/R
Conostylis androstemma	✓	·	✓

HERBS (cont.)	No	Fl	ID
Thysanotus manglesianus		✓	R
Wahlenbergia preissii		✓	R
Trachymene pilosa		✓	✓/R
Juncus bufonis		✓	✓/R
Anagalis arvensis			✓
Levenhookia pusilla		✓	✓/R
Centrolepis drummondiana		✓	R
Daucus glochidiatus		✓	R
Hypochaeris glabra		✓	✓/R
Homalocarpium homallocarpium		✓	R
Cassytha pomiformis		✓	✓/R
Pterostylis sanguinea	✓	—	✓
SEDGES			
Juncus capitatus	✓	✓	✓/R
Centrolepis aristata	✓		✓/R
Schoenus grammatophyllus		✓	R
Schoenus clandestinus		✓	R
Desmoladus aspera		✓	✓/R
Chamaescilla corymbosa	—		✓
Romulea rosea	—		✓
Gladiolus sp. caryophyllaceae	—		✓/R
~~Patersonia sp.?? (nudis/pygmaea)~~ ?	—		?
Eriochilus sp. (sterile)	—		✓
Quinetia urvillei	—		✓
Ursinia anthemoides	—		✓
Thelymitra aff pauciflora	✓	—	✓

material id'd.

verification?

in!

Lake MacLeod and the coastal flats, support samphire and saltbush communities. Detailed descriptions of the vegetations in the study area are provided by Beard (????), Rangelands survey report (?????) and Keighery et al. (this publication).

2. Field Sampling

Herpetofauna were sampled on 63 quadrats (2 to 6 quadrats clustered around each of 13 survey areas, herein referred to as "campsites"). Sampling was sparse. The Irwin-Carnarvon Study Area encompassed 7.5 million hectares, and a total of 1008 hectares was actually sampled (each quadrat was 400 X 400m = 16 hectares, and 63 quadrats x 16 ha = 1008ha). Thus, only 0.013% of study area was actually sampled.

Quadrats were positioned throughout the geographical extent of the study area in a stratified random array. They were placed in typical examples of each of the surface stratigraphic units that characterise the study area. Many quadrats were pseudo-replicated (locally as well as at distant points) to allow for the internal heterogeneity of the stratification units (hypothesised scalars) and to minimise any analytical circularity introduced by the stratification (see McKenzie et al. 1989,1991b).

Trapping and foraging (digging, raking etc) were used to detect species' presence-absence on quadrats. Two drift-fence arrays were set up on each quadrat. The arrays each comprised a line of 6 PVC tubular pit-traps ("tubes"), 125mm in diameter and 500mm deep, spaced at 10m intervals along a 50m flywire drift fence that was 300mm high. About 5 m from either side of the 50m fence was a "bucket" pit-trap 300mm in diameter and 450mm deep positioned at the centre of a 10m long drift fence. In addition, 30 plastic "tubs", 150x150x200mm deep, were scattered across each quadrat during the Autumn (May 1995) survey. The tubs were sunk into the ground around the periphery of grass tussocks, and in the leaf litter under trees and shrubs. A minimum of one hour per day per quadrat was spent foraging.

The quadrats were sampled for 5 days and nights in Spring 1994 (27 Sept - 20 Oct) and in Autumn 1995 (9 May - 8 June), a total of 10 drift fence nights per quadrat per seasonal visit. The two quadrats on Edel Land (EL) were first sampled in January 1995 (for 3-4 nights), then re-sampled for 5 nights during the Autumn 1995 fieldwork. Trapping effort is summarised in Table KK.

Table KK. Total number of individual trap-nights per sampling session.

Pit-trap Type	Oct94	Jan95	May95	Nov95	Mar96	Total
Buckets	1220	12	1244	-	-	2476
Tubes	3660	72	3704	516	2736	10688
Total	4880	84	4948	516	2736	13164

Reptiles and frogs were also caught in the five invertebrate pit traps set on each quadrat and left open for 12 months. Unlike the vertebrate buckets, each of these was partially filled with a solution of glycol-formalin (see Harvey, this publication) and covered by a

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL04
Date	4/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
E. accedens			
E. wandoo			
E. calophylla			
MALLEES			
SHRUBS			
Hibbertia hypericoides	✓		✓
Macrozamia reidlii	✓		
H. lissocarpa	✓		✓
Phyllanthus calycinus	✓		✓
Bossiea ~~ornata~~ eriocarpa	✓		✓
Dryandra nivea	✓		✓
Dryandra bipinnatifida	✓		
Anthropodium sp.	✓		✓
H. commutata	✓		✓
Sterile shrub. whorled leaves. ?			✓
(Rhamnaceae) ciliate margins.			✓
Caesia → (white Anthericaceae)	✓		✓
from site WAYL01)			
Xanthosia sp. no flowers	✓		✓

SHRUBS (cont.)	No	Fl	ID
GRASSES			
Neurachne alopecuroides	✓		
Briza maxima	✓	✓	
HERBS			
Lagenifera huegelii	✓		✓
Romulea rosea	✓		✓
Drosera ~~stricta~~ → ~~→~~ micrantha			✓
Cnicthylis setosa	✓		✓
Oxalis sp. awaiting flowering	✓		✓
~~Wurmbea anthericoides~~			
Thysanotus manglesiodes			
Stylidium sp.			✓
~~Lobe~~ Cheiranthera corymbosa			✓
Tradymene pilosa	✓		✓
Daucus glochidiatus	✓		✓
Ursinia anthemoides	✓		✓
Hypochaeris glabra	✓		✓

HERBS (cont.)	No	Fl	ID
FERN - Cheilanthus			
Anagalis arvensis.	✓		✓
Medicago	✓		✓
Hladiolus	✓		✓
(~~[illegible]~~) + Trichodine spathulata (?)			✓
→ Cheilo sp.			✓
No flowers			
(Asteraceae)			
Caladenia sp. sterile			
soft herbaceous dicot			
↳ basal rosette - Numerous inflorescences.			
~~Dicos~~ Stylidium			
SEDGES			
Loxocarya : ~~fasciculata~~			
flexuosa !			

Condition = 3- logged + grazed + burnt

lots of weeds from ADJ pasture

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL04
Date	27.11.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
MALLEES			
SHRUBS			

SHRUBS (cont.)	No	Fl	ID
phy. calycina			//
Sheathing-base sedge		*	
dep. trefe, large smooth = ADJ			
Alizadiolus sp.			//
GRASSES			
HERBS			

HERBS (cont.)	No	Fl	ID
Stylidium affine			//
Briza minor			//
Danthonia spp.			//
Unid large grass ↳ sparse inflorescence			//
Medicago / Trifolium			//
Haemodorum sp.			//
Hydrocotyle sp			//
Unid yellow-flw weed			//
Annual small grass			//
Aira caryophyllae			//
Sonchus oleraceus			//
Daucus glochidiatus			//
SEDGES			
Unid trifoliate weed ↳ Ptilotus?			//
Stipa elegantissima			//
Unid grass → Brachyposium		//	
Hairy-leaved grass			//
Wahlenbergia sp.		//	
Opp. leaved weed - pink flws	2		//
Small annual grass		//	
Hibb. commutata	//		
dox. flexuosa	//		

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL04
Date 4.9.96
(R) 27.11.96

Label each plant with plants number, site code, date and plant's name or working name if required
Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
Euc. accedens ✓	✓		✓/R	Thysanotus manglesianus ✓	—	—	✓	Hypochaeris glabra ✓		✓	✓/R
Euc. wandoo ✓			✓/R	Cheilanthes austrotenuifolia ✓	—	—	✓	~~Dichopogon capillipes~~		~~✓~~	~~✓/R~~
Euc. calophylla ✓			✓/R	Gladiolus sp. sterile ? Dianella??	—	—	–	Trifolium angustifolium ✓		✓	
				Caladenia sp. sterile ✓	—	—	–	Oxalis perennans ✓		✓	✓/R
SHRUBS				Centaurium erythraea ✓	—		R	Trifolium ~~cern.~~ cernuum ✓		✓	✓/R
				Horma [illegible] ✓	—		R	Anagallis arvensis ✓		✓	✓/R
				Neurachne alopecuroidea ✓	—		✓/R	Sonchus oleraceus ✓		✓	R
Hibbertia commutata ✓	✓	✓	✓/R	Briza minor ✓		✓	R	Arthropodium capillipes ✓		✓	
Hakea lissocarpha ✓	✓		✓/R	GRASSES				Haemodorum simplex ✓		✓	R
~~Bossiaea ornata/eriocarpa~~	~~✓~~	~~✓~~		Aira caryophyllea ✓		✓	R	Drosera macrantha ✓	✓		✓
Trymalium angustifolium ✓	✓	✓	✓/R	Briza maxima ✓		✓	✓	Ptilotus drummondii ✓		✓	R
Phyllanthus calycinus ✓		✓	✓/R	Stipa elegantissima ✓		✓	R	Conostylis setosa ✓	—		✓/R
Hibbertia hypericoides ✓		✓	✓/R	Stipa pycnostachya ✓		✓		Chamaescilla corymbosa ✓	—		✓
Bossiaea eriocarpa (id=✓) ✓	✓	✓	✓/R	Danthonia setacea ✓		✓	R	SEDGES			
Macrozamia riedlii ✓	—	—	✓/R	Lolium perenne ✓		✓	R				
Dryandra lindleyana lindleyana ✓	—	—	✓/R	Microlaena stipoides ✓		✓	R				
Dryandra bipinnatifida ✓	—	—	✓/R	Brachypodium distachyon ✓		✓	R	Desmocladus asper ✓	—	—	✓/R
				~~Stipa sp.~~		~~✓~~					
				HERBS							
				Xanthosia candida ✓	✓		✓/R				
				Daucus glochidiatus ✓	✓	✓	✓/R				
				Ursinia anthemoides ✓	✓	✓	✓/R				
				Trachymene pilosa ✓	✓	✓	✓/R				
				Caesia micrantha ✓	✓	✓	✓/R				
				Stylidium affine ~~[illegible]~~ ok ✓ ✓	✓	✓	✓/R				
				Trichocline spathulatum ✓	✓	✓	✓/R				
				Lagenifera huegelii ✓	✓		✓/R				
				Wahlenbergia preissii ✓		✓	R				
				Hydrocotyle callicarpa ✓		✓	R				
				Linum trigynum ✓		✓	R				
				Romulea rosea ✓		✓	✓/R				
				Galium divaricatum ✓		✓	○				

~~D.J. Fraser~~ Fraser. ~~Nisbet~~.

e-mail: allanb@calm.wa.gov.au
11/5/97

cc. John Blyth, Ron Johnstone, Peter Mawson

B: Melaleuca - Brendan Lay 3/9

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WALYL Ø5
Date	4/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Hannahanna

TREES	No	Fl	ID
E. calophylla			
E. wandoo			
MALLEES			
X. acanthostachya			
SHRUBS			
~~X. preissii~~ ✓ ?			
H. lissocarpha ✓			✓
H. evinacea ✓			
Macrozamia reidlii ✓			
Melaleuca ? scabra ✓			✓
Hibbertia hypericoides ✓			✓
Hypocalymma angustifolium ✓			✓
Dryandra armata	✓		
D. nivea	✓		
Acacia pulchella	✓		✓
Leucopogon sp WALYØ1	✓		✓
Conospermum incrassatum	✓		
Grevillea pulchella	✓		
Isopogon ? Petrophile sp. (WalyØ4)	—		✓
H. commutata	✓		✓
X. gracilis (xanthorrhoea)	✓		
Baeckea camphorosmae	✓		
Stylidium bulbifera ✓			
Calothamnus sp. - shrub	✓		✓
Xanthosia sp. (yellow)			✓
Xanthosia - seedling -	✓		

SHRUBS (cont.)	No	Fl	ID
Myrtaceous obtriangular leaf			✓
shrub sp ? Boronia			
Caesia sp (as of WALYØ1)			✓
• Sterile Epacrid			✓
Astroloma ? sp ?			
• Bossiaea spherocephala			✓
• Trachymene pilosa			✓
• Ophioglossum sp ? - Rumex.			✓
GRASSES			
• Bromus rosea			
• Trigonne ? (no flowers)			✓
Lolium sp ?			✓
• Haemodorum sp. paniculatum (strap leaved)			✓
• Tetratheca laxus ?			✓
HERBS			
Conostylis setosa			
Carpyche			✓
Lagenifera hergelii			
Erodium Erungium.			✓
Drosera micrantha			
~~[illegible]~~ D. erythrorhiza			
Stylidium sp basal rosette			✓
~~[illegible]~~			
Chamosila corymbosa			
Trypocline (Asteraceae) as at WALY Ø4			
Cuaspedia			✓
Bossiaea eriocarpa			

HERBS (cont.)	No	Fl	ID
Hypoxis sp - small leb			
Thysanotus linear			
Ny tanel. sp. leaves			
basal rosette			✓
• Pterostylis vitata ?			✓
• Burchardia congesta			
• Stylidium sp 8 - no flowers			✓ S. affine
(larger, greener basal rosette			✓
• Daucus glicodia			
• Orinelia uniflora			✓
• Hypochaeris glabra			✓
• ~~Tetratheca~~ cc			✓
• Gladiolus			✓
SEDGES			
• Lepidosperma tenuis			
• Tetraria octandra			✓
(~~[illegible]~~)			
• Stylidium - long leaves as in WALYL Ø4 basal rosette.			
• Rhamnaceae sp. flowering (as of site WALYØ4 but not flowering)			✓
• Cyanicula sp.			✓
• Thelymitra sp ??			✓

Homma homma in WAL4Ø4

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYLØ5
Date	27.11.96
	Rescore

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- **Column 1** plant name
- **Column 2** plant number
- **Column 3** flowering time- TICK if species flowering
- **Column 4** identification check

Large Nit emergent X. acanthostachya

TREES	No	Fl	ID
Gladiolus sp			
Hydrocotyle			
Ann Schoen	//		
Homma homma	//		
~~Crasputa~~			
Crassula	/		
MALLEES			
Stylidium - calcaratum?	//		
Wahlenbergia sp ?			
Quinetia inversis	//		
SHRUBS			
Medicago	//		
H. incrassata	//		

SHRUBS (cont.)	No	Fl	ID
Daucus glocidiatus		//	
Ursinia anthemoides		//	
Briza maxima		//	
Burchardia congesta		//	
Xanthosia huegelii		//	✓
Stylidium amoenum //		//	✓
juncum	//		
Tetratheca nuda	//		
GRASSES			
Danthonia sp.		//	
Unid sedge →			
Gahnia Loose, chaetaceous			
brown bracts as leaf sheaths			
Comesperma vaginatum	/		
Tricoryne elatior	//		✓
Hairy-leaved grass	//		
Conocarpus cordigers	//	/	
Stipa sp.			
HERBS			
Stylidium affine		//	
Aira rhyophyllae		//	
Hypochaeris glabra			✓
Small annual grass			
Comph. marginata	//		
Black-base Schoenus		//	
Petrophile striata	//		
Tricoryne-like Dampiera	//		
Goodenia caerulea			

HERBS (cont.)	No	Fl	ID
Xan. preissii is			
Xan. acanthostachya!			//
Isopogon ~~sp~~ aspr? → NOT SEEN			
" "			
Myrtaceous shrub			
L = Baeckea ~~crista~~ obovata			✓
Trifolium spathulatum	//		
Dianella revoluta		///	
Rossiea criocarpa		//	
Neurachne alopecuroidea			//
SEDGES			
Cassytha sp.		//	
Stylidium brunonianum		//	✓
Caesia sp.		//	
Lomandra sp.		//	
Unid grass sp.			
Briza minor			
Small annual grass			
Caladenia longicauda		//	
Tet. capillaris		//	
Scroph. → white flower		//	
Loxocarya flexuosa	//		
Leucopogon pulchella	//		

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No WAYLØS
Date 4.9.96
27.11.96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Hydrocotyle sp. ~~R~~ ✓

TREES	No	Fl	ID
Eucalyptus calophylla ✓	—		✓/R
Eucalyptus wandoo ✓	—		✓/R
Xanthorrhoea acanthostachya ✓	—		✓/R
Hakea lissocarpha ✓	—		✓/R
Hakea erinacea ✓	—		✓/R
Macrozamia riedlii ✓	—		✓/R
Hibbertia commutata ✓	✓	✓	✓/R
Melaleuca aff scabra ✓	✓		✓/R
Leucopogon pulchellus (seedling) ✓	✓		✓
Boronia ovata ✓	✓	✓	✓/R
Calothamnus sanguineus ✓	✓		✓/R
Acacia pulchella subsp pulchella ✓	✓		✓/R
Leucopogon pulchellus (adult) ✓	✓		✓/R
Isopogon asper ✓	✓		✓/R
Trymalium angustifolium ✓ (NOT CRYPTANDRA)		✓	✓/R
ADJ: Bradyzema celsianum ✓	✓		
Petrophile striata ✓		✓	R
Hibbertia hypericoides ✓		✓	✓/R
Baeckea camphorosmae ✓		✓	✓/R
Hypocalymma angustifolium ✓	—		✓/R
Dryandra armata ✓	—		✓/R
Dryandra lindleyana lindleyana ✓	—		✓/R
Gompholobium marginatum ✓	—		✓/R
Grevillea pilulifera ✓	—		✓/R
Xanthorrhoea gracilis ✓	—		✓/R
Bossiaea eriocarpa ✓	—		✓/R
Ursinia anthemoides ✓	—		R
Hakea incrassata ✓	—		R

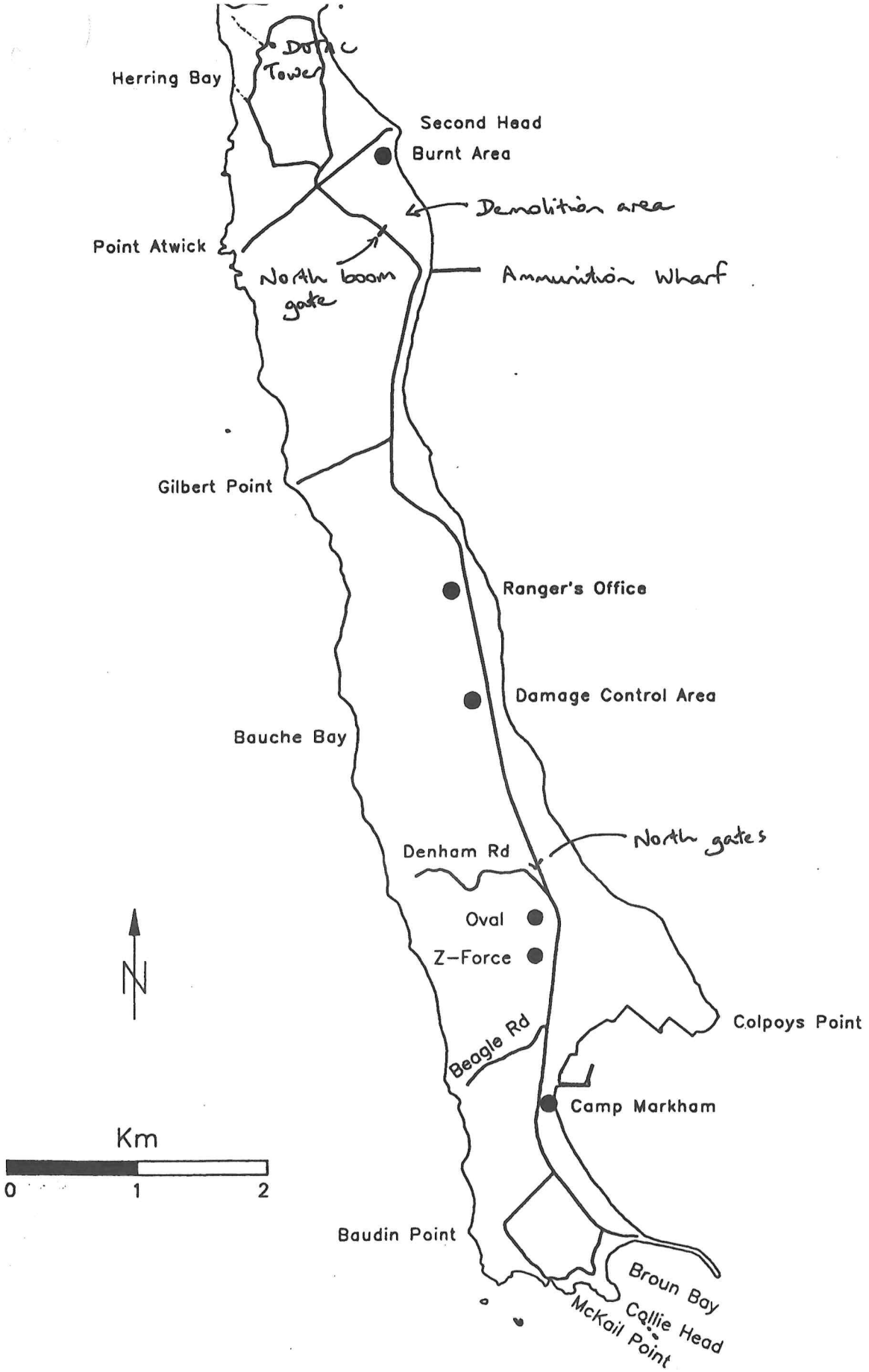
SHRUBS (cont.)	No	Fl	ID
Haemodorum sp. indet ✓		✓	✓/R
Lomandra nigricans ✓ (? id early)		✓	R
Goodenia caerulea ✓		✓	R
Tetratheca nuda ✓		✓	R
Dianella revoluta ✓		✓	R
Pterostylis vittata ✓	✓	✓	✓
Cyanicula sericea ✓	✓		✓
Thelymitra crinita ✓	✓		✓
GRASSES - Neurachne alopecuroidea ✓	—		✓/R
Tetrarrhena laevis ✓	✓	✓	✓/R
Brachypodium distachyon ✓		✓	R
Briza maxima ✓		✓	R
Danthonia setacea ✓		✓	R
Vulpia bromoides ✓		✓	R
Aira caryophyllea ✓		✓	R
Dichelachne crinita ✓		✓	R
Stipa pycnostachya ✓		✓	R
Microlaena stipoides ✓		✓	R
HERBS			
Triconyne elatior ✓	✓	✓	✓/R
Stylidium amoenum ✓	✓	✓	✓/R
Xanthosia huegelii ✓	✓	✓	✓/R
Xanthosia candida ✓	✓		✓/R
Borya sphaerocephala ✓	✓		✓/R
Tricoryne tenella ✓	✓		✓/R
Crassspedia variabilis ✓	✓	✓	✓/R
Erigeron pinnatifidum pinna ✓	✓	✓	✓/R
Stylidium brunonianum ✓	✓	✓	✓/R
Gross Styl. calcavatum ✓		✓	R
Stylidium affine ✓	✓	✓	✓
Rumex sp? Seedling ✓	✓		✓
Oxalis perennans ✓	✓		✓
Hypoxis sp. (small hairy) ✓			

HERBS (cont.)	No	Fl	ID
Trachymene pilosa ✓		✓	✓/R
Levenhookia pusilla ✓		✓	R
Daucus glochidiatus ✓	—		✓
Hypochaeris glabra ✓		✓	✓/R
Quinetia urvillei ✓		✓	✓/R
Homalosciadium homalocarpum ✓		✓	R
Goodenia aff Micrantha / claytoniae ✓		✓	R
Caesia micrantha ✓		✓	✓/R
Comesperma ciliatum ✓		✓	R
Cassytha pomiformis ✓		✓	✓/R
Bartsia trixago ✓		✓	R
Gonocarpus cordiger ✓		✓	R
Trichocline spathulatum ✓		✓	✓/R
SEDGES			
Tetraria octandra ✓	✓		✓
ADJ: Gahnia aristida ✓	✓		✓
Schoenus nanus ✓		✓	R
Schoenus grammatophyllus ✓		✓	R
Gahnia aristida (IN) ✓		✓	R
Tet. capillaris ✓	—		R
~~Lepidosperma flexuosa~~ Des. cosp.	—		R
Caladenia longicauda longi ✓	✓		✓/R
Drosera stolonifera porrecta ✓	✓		
Haemodorum discolor ✓	✓		✓/R
Stylidium bulbiferum (ML) ✓		✓	✓/R
Romulea rosea ✓	—		✓/R
Conostylis setosa ✓	—		✓
Lagenifera huegelii ✓	—		✓
Drosera macrantha ✓	—		✓
Drosera erythrorhiza ✓	—		✓
Chaemaescilla corymbosa ✓	—		✓
Burchardia congesta ✓			✓/R
Gladiolus sp. (✓/R) ✓			

site count 1994

5 4900

campanulaceae


Herring Bay
Doric Tower
Second Head
Burnt Area
Demolition area
Point Atwick
North boom gate
Ammunition Wharf
Gilbert Point
Ranger's Office
Damage Control Area
Bauche Bay
North gates
Denham Rd
Oval
Z-Force
N
Colpoys Point
Beagle Rd
Camp Markham
Km
0
1
2
Baudin Point
Broun Bay
Callie Head
McKail Point

check for grasses!
* return & look for smaller plants on 2nd visit – Moss Sedges
open sunni. L check for centrolepis (Centrolepidaceae)

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL06
Date	4/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

(check for Parentucelia/Bellardia. / Pavietaria / = scrophs)

TREES	No	Fl	ID
• E. calophylla			
MALLEES			
SHRUBS			
• Gompholobium marginatum			✓
• Dryandra sessilis			
• Lebbosperma erebesens			✓
• Spiridium? sp? → TRYMALIUM			✓
• Phyllanthus calycinus			
• Kunzea sp.			✓
• Hibbertia hypericoides			✓
• Stackhousia			✓
• Grevillea pilulifera			
• Banksia sphaerocephala			✓
• Dryandra nivea			✓
• Medicago			✓
• Scrophulaceae →			✓
(weedy scrophs on 2nd visit)			✓

SHRUBS (cont.)	No	Fl	ID
• Bellardia sp			✓
bartsia trixago			
GRASSES			
• Briza maxima			✓
• Romulea rosea			✓
• Cape tulip → One leaf CT			
• Anagallis arvensis			✓
• Neurachne alopecuroides			
• Ursinia anthemoides			✓
• Oxalis sp.			✓
HERBS			
• Thysanotus manglesiana			
• Cheilanthus – (fern)			✓
• Drosera menziesii			
• D. erythrorhiza			
• Stylidium bulbiferum			
• Thelymitra? flexuosa			
• Weed dicot - Divided leaf white flowers.			✓
Fumaria.			✓

HERBS (cont.)	No	Fl	ID
• Haemodorum sp. 2			✓
(small, dried inflorescence)			
• Centrolepis sp.			✓
(careful – poss			✓
• Lomandra sp.			✓
SEDGES			
• Lepidosperma tenuis			

(2-2½)

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WACY06
Date 27.11.96
Rescore

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

2½-③

TREES	No	Fl	ID
~~MALLEES~~			
~~SHRUBS~~			

SHRUBS (cont.)	No	Fl	ID
Galium → Gaulus sp			//
small shoenusor			
centrolepis drummondii			//
Stackhousia sp			//
Stipa sp			//
unid → asteraceae		✓	
GRASSES weed			
HERBS			

HERBS (cont.)	No	Fl	ID
Wahlenbergia? pink flws			
Levenhookia pusilla ?			
Trymalium floribundum			//
spp Scrophs'			//
Briza minor			//
Annual grass			//
Stipa sp			//
Ptilotus? → weed		?	
Hairy-leaved grass			/
Romulea rosea			✓
Melonia sp			//
SEDGES			
Borya sphaerocephala			✓
2 small herb annuals			
i) pink flws Centaurium			
ii) yellow flws Linum		//	
Hibb. commutata			//
Medicago			//

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No WAYL06

Date 4.9.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Euc. calophylla	—		R

~~MALEES~~ SHRUBS	No	Fl	ID
Trymalium floribundum fla	✓	✓	✓/R
Bossiaea ornatum	✓		✓/R
Hibbertia commutata	✓		/R
Leptospermum erebescens	✓		✓/R
Hibbertia hypericoides		✓	✓/R
Kunzea micrantha	✓	✓	✓/R
Dryandra lindleyana ssp lindleyana		✓	✓/R
Dryandra sessilis	—		/R
Phyllanthus calycinus	—		/R
Grevillea pilulifera	—		/R

SHRUBS (cont.)	No	Fl	ID
Thelymitra flexuosa	✓		✓
NT Leucopogon ? stipitata	—		R
Nuhlenbergia - pink flos!!			

GRASSES	No	Fl	ID
Briza minor		✓	R
Briza maxima		✓	/R
Brachypodium distachyon		✓	R
Stipa pycnostachya		✓	R
Neurachne alopecuroidea	—		✓
Microlaena stipoides	—		R

HERBS	No	Fl	ID
Romulea rosea	✓		✓/R
Fumaria capreolata	✓		✓/R
Bartsia trixago	✓	✓	✓/R
Centrolepis drummondiana	✓	✓	✓/R
Stackhousia monogyna	✓	✓	✓/R
Borya sphaerocephala	✓		✓/R
Cheilanthes austrotenuifolia	✓		✓
Linum trigynum		✓	R
Ursinia anthemoides		✓	✓/R
Galium divaricatum	✓	✓	✓/R
Anagallis arvensis		✓	✓/R
Oxalis perennans	✓		✓
Billardiera coerulea-punctata	✓	✓	O

HERBS (cont.)	No	Fl	ID
Millotia sp.		✓	R
Centaurium erythraea		✓	R
Trifolium angustifolium		✓	✓/R
Tolpis barbata		✓	R
Rhodanthe corymbosa		✓	
Lomandra brittanii		✓	✓/R
Crepis foetida		✓	R
Haemodorum simplex		✓	R
Homeria flaccida		—	✓/R
Thysanotus manglesianus		—	✓
Drosera menziesii		—	✓
Drosera erythrorhiza		—	✓
Stylidium bulbosum		—	✓

SEDGES	No	Fl	ID

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYLØ7
Date 4.9.96
27-11-96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required
Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Euc. wandoo	—		✓/R

SHRUBS	No	Fl	ID
Phyllanthus calycinus	—		✓/R
Baeckea camphorosmae	—		✓/R
Hakea lissocarpha	—	✓	✓/R
Acacia pulchella	—		✓/R
Dry lindle lindy..	—		✓/R
Hibbertia hypericoides	—		✓/R
Nemcia spathulata	✓	✓	✓
Hibbertia hypericoides	✓	✓	✓
Hibbertia commutata	✓	✓	✓/R
Hypocalymma angustifolium		✓	✓/R
~~Hakea lissocarpha~~		✓	✓/R
Gompholobium marginatum	—		✓/R
~~Gompholobium bilobum?~~			
Xanthosia candida	—		✓/R
Hesperantha falcata	✓		✓

SHRUBS (cont.)	No	Fl	ID
Stylidium dichotomum (id:J)		✓	✓/R
Haemodorum simplex		✓	R
Drosera menziesii	✓		✓
Drosera stolonifera	✓		✓/R
Chamaescilla corymbosa	—		✓/R
Caladenia flava	—		✓/R
Microtaena stipoides		✓	
GRASSES			
Briza maxima		✓	R
Briza minor		✓	R
Aira caryophyllea		✓	R
Neurachne alopecuroidea		✓	✓/R
Vulpia bromoides (INC)(AH)		✓	R
Brachypodium distachyon		✓	R
Danthonia setacea		✓	R
Stipa pycnostachya		✓	R
Vulpia ~~bromoides~~ (NG)		✓	R
HERBS myuros			
Podolepis lessonii	✓	✓	✓/R
Parentucelia latifolia	✓	✓	✓
Borya sphaerocephala	✓	✓	✓/R
Hypoxis occidentalis	✓		✓
Stylidium bulbiferum (small) ✓ ok	✓	✓	✓/R
~~Stylidium repens~~ (DW)	✓		?
no mention on sheet.			
Thysanotus tenellus	✓		✓
Stylidium brunonianum	✓	✓	✓/R
~~Acacia nicrantha (maybe WAYLØ8)~~	✓		
Philotus declinatus	✓	✓	✓/R

HERBS (cont.)	No	Fl	ID
Linum marginale		✓	R
Opercularia vaginatum		✓	✓/R
Bartsia trixago		✓	R
Hypochaeris glabra		✓	✓/R
Ursinia anthemoides	—		✓/R
Daucus glochidiatus		✓	R
Anagalis arvensis		✓	✓/R
Homalosciadium homalocarpum		✓	✓/R
Centrolepis aristata		✓	R
Hydrocotyle callicarpa		✓	R
Centrolepis drummondiana		✓	R
Juncus capitata		✓	R
Romulea rosea		✓	✓/R
~~Ursinia anthemoides~~		✓	✓/R
Trachymene pilosa		✓	✓/R
Quinetia urvillei		✓	✓/R
Hyalosperma cotula		✓	R
Cassytha pomiformis		✓	✓/R
Goodenia micrantha (aff.?)		✓	R
Levenhookia stipitata		✓	
Lagenifera huegelii	—		✓/R
Stylidium pubigerum (ciliatum?)		✓	R
Schoenabaea laxiflora	—		✓
SEDGES			
Schoenus grammatophyllus		✓	R
Desmocladus asperus		✓	✓/R
Drosera erythrorhiza	—		✓/R
Cheilanthes lasiostenophylla	—		✓
Burchardia congesta	—		✓/R
Parentucelia viscosa	—		✓/R
~~Stylidium? calcaratum?~~ → Rob Goodenia!			

Altitude	12	0.58 (***)

Table histo_assem2. Kruskall-Wallis values for physical attributes that showed significant (<0.05) differences between groups of assemblage_2 quadrats that had been clustered in terms of their herpetofaunal similarities (**Fig. Histo_assem2**).

Attribute	**Kruskal-Wallis value**		**Kendall's Tau (prob.)**
	7-groups	**15 groups**	**from Appendix 2.**
PwetQ	28	37	
PcldQ	23	37	0.95 (***)
Pann	27	34	0.74 (***)
Pseas	20	34	0.81 (***)
PwarQ	14	36	- 0.54 (***)
TwarQ	16	35	- 0.84 (***)
Tann	15	35	- 0.64 (***)
$K(H_2CO_3)$	21	28	- 0.34 (***)

Table histo_assem3. Kruskall-Wallis values for physical attributes that showed significant (<0.05) differences between groups of assemblage_3 quadrats that had been clustered in terms of their herpetofaunal similarities (**Fig. Histo_assem3**).

Attribute	**Kruskal-Wallis value at 9 groups**	**Kendall's Tau (prob.) from Appendix 2.**
$K(H_2CO_3)$	41	
exK	39	0.89 (***)
silt	32	0.56 (***)
tx_shst	36	0.45 (***)
EC	16	0.35 (***)
Clay	29	0.31 (***)
Pann	43	- 0.43 (***)
TannRa	37	- 0.34 (***)
PwetQ	38	0.74 (***)
PcldQ	37	0.71 (***)
TwarQ	34	- 0.61 (***)
C	27	0.43 (***)

To minimise the influence of phylogeny on the geographical analysis, we re-analysed the quadrat data using an ecological taxonomy that was based on functional morphology (Table ECOL).

Table ECOL. The species that were combined in terms of their functional morphology to provide an ecological taxonomy of the study area's herpetofauna.

Species	**Combined Name**
FROGS	

cauldrit see dedemodica

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL07
Date	27.11.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Lox flexuosa

TREES	No	Fl	ID
Cassytha sp		//	
MALLEES			
SHRUBS			
~~Hakea ericaea~~			
Hakea lissocarpa	//		
~~H. ericaea~~ !			

SHRUBS (cont.)	No	Fl	ID
Drosera menziesii	//		
White scrub	//		
Daucus glochidiatus	//		
Styl. brunonianum	//		
Pei Rhodanthe sp	//		
GRASSES Styl. piliferum	//		
Danthonia sp	//		
Xanthosia candida			
Podotheca	//		
Aiva cryptadylae	//		
Lomandra sp	//		
Hibbertia sp- (hypericoides?)	//		
HERBS			
Stipa sp	//		
Small annual Schoenus	//		
Phy cal	//		
Ursinia anthemoides	//		
E. wandoo	//		

HERBS (cont.)	No	Fl	ID
Check Loxocarya ~~fasciculata~~ not flexuosa			
Small Haemodorum sp	//		
Quinetia urvillei	//		
Stylidium sp -not bulbiferum	//		
Small annual grass	//		
Briza major	//		
Centrolepis aristata	//		
Small Black-base Schoenus (graceful?)	//		
SEDGES			
Stylidium ? calcaratum?	//		
~~Ptilotus manglesianus~~			
Ptilotus sp (shrub)	//		
Yellow small dicot weed herb -			
Crassula			
Hydrocotyle	//	//	
Lepidosperma sp (terete rough large)			

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL07
Date	4/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Keep out to this.

TREES	No	Fl	ID
E. wandoo			
MALLEES			
SHRUBS			
Hypocalymma angustifolium	✓		✓
Hibbertia hypericoides	✓		✓
Dryandra nivea	✓		
Hibbertia commutata (?)	✓		✓
Acacia pulchella	✓		
H. lissocarpha		✓	
Baeckea camphorosmae		✓	
Phyllanthus calycinus		✓	
Hypochaeris glabra			✓
Chamaesila corymbosa		✓	
Gompholobium marginatum		✓	
Anagalis arvensis		✓	✓

SHRUBS (cont.)	No	Fl	ID
Calothamnus flava	✓		
Haemodorum paniculatum		✓	✓
Haemodorum sp.			✓
Loxocarya (fasciculata) !!	✓		✓
Lagenifera huegelii flex!!	✓		
Weed Anthoiscaceae (immature flowers) ?			
↳ Hesperantha			
GRASSES			
Ehrharta villosa	✓		✓
Neurachne alopecuroides	✓		✓
Podolepis sp.			✓
Hv			
Prostrate dicot – sp ? Pilotus glossy foliage declinatus			✓
Quinetia urvillei			✓
HERBS			
Borya sphaerocephala			✓
Sowerbaea laxiflora			
Drosera stolonifera			✓
Drosera menziesii			✓
Drosera erythrorhiza			✓
Thysanotus sp. (basal rosette) tn			✓
Ursinia anthemoides		✓	✓
Cheilanthes sp (fern)		✓	
Hypoxis sp.		✓	✓
Cassytha sp	✓		✓
Stylidium bulbiferum ??			✓
Stylidium bulbiferus			✓

HERBS (cont.)	No	Fl	ID
Stylidium Drummondianum			✓
Gastrolobium bilobum ?			✓
Nemcia?			
Burchardia congesta	✓		
* Parentucellia viscosa?	✓		✓
Opercularia vaginata	✓		✓
Homma Homma		✓	✓
Trachymene pilosa			✓
SEDGES			

2spp. stylidium? bulbiferum

unusual

S. dichotomus

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE — Label each plant with plants number, site code, date and plant's name or working name if required

SITE No	WAYLØ8
Date	5.9.96.
	29.11.96 (R)

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Euc. wandoo	✓		✓/R
SHRUBS			
Hakea erinacea	✓	—	✓/R
Hakea lissocarpha —			
Hypocalymma angustifolium	✓	—	✓/R
Dryandra lindleyana lindleyana	✓	✓	✓/R
Hakea myrtoides	✓	—	✓/R
Verticordia huegelii ~~var huegelii~~	✓	✓	✓✓
Hibbertia commutata	✓	—	✓/R
Gompholobium marginatum	✓	—	✓/R
Pimelea imbricata var piligera	✓	—	✓/R
Melaleuca cf scabra	✓	✓	✓/R
Dillwynia sp. A (Perth Flora)	✓		✓/R
Ptilotus Ptilotus manglesii	✓	✓	R
~~Dryandra lindleyana lindley.~~		✓	✓/R
Hibbertia hypericoides	✓	✓	✓/R
Baeckea camphorosmae	✓	—	✓/R
ADS: Acacia oncinophylla oncinophylla	✓		
Drosera rotula	✓		✓/R

SHRUBS (cont.)	No	Fl	ID
Diuris laxiflora	✓		✓
Drosera stolonifera porecta	✓		
Drosera heterophylla	✓	✓	✓
~~Drosera sp. indet~~	✓		✓
Anagalis arvensis	✓	—	✓/R
Trachymene pilosa	✓	—	✓/R
~~Drosera erythrorhiza~~	✓	—	✓
Sowerbaea laxiflora	✓	—	✓
GRASSES			
ADS: Danthonia setacea	✓	✓	R
Briza minor	✓	✓	R
Vulpia bromoides (am)	✓	✓	R
Bradypodium distachyon	✓	✓	R
Aira caryophyllea	✓	✓	R
Briza maxima	✓	✓	✓/R
Danthonia acerosa	✓	✓	R
Newcrome decipendidea	✓	—	✓/R
HERBS			
Stylidium petiolare	✓		✓✓
Philydrella pygmaea	✓	✓	✓/R
Stylidium dichotomum	✓	✓	✓✓
Anigozanthus bicolor subsp bicolor	✓		✓✓
~~Stylidium bulbiferum (Conscf.)~~	✓	✓	
Triborantheo longipetala	✓		✓
Brachycome ibevidifolia	✓		✓
Xanthosia atkinsonia	✓		✓
Laxmannia sessiliflora	✓		✓
Lomandra integra	✓		✓
Conocarpus nodosum	✓		✓
~~Centrolepis? aristata (sterile)~~	✓		✓
Milbia sp. Sterile	✓		

HERBS (cont.)	No	Fl	ID
ADS: Briza trixago	✓	✓	
ADS: Trichocline spathulatum	✓	✓	✓
~~Lotus~~ Trifolium cernuum	✓	—	R
Centrolepis aristata	✓	✓	✓/R
Linum trigynum	✓	—	R
~~Ixia maculata~~ (Not Spiranthis)	✓	—	✓/R
Siloxerus humifusis	✓	✓	R
Goodenia micrantha (cff?)	✓	✓	
Quinetia urvillei	✓	✓	✓/R
Hovellia homa	✓	✓	✓/R
Parentucellia latifolia	✓	✓	
Romulea rosea	✓	✓	✓/R
~~Centrolepis~~			
Ursinia anthemoides	✓	—	✓/R
Hypochaeris glabra	✓	✓	✓/R
Moraea bracteosa	✓	✓	R
Thely crinita	✓	✓	✓/R
Eriochilus helonomus	✓		✓
Thely atteniferia	✓		✓
Haemodorum simplex	✓	✓	✓/R
Bonya sphaerocephala	✓	—	✓/R
SEDGES			
Juncus capitatus	✓	✓	R
Desmocladus aspera	✓	✓	R
Cassytha sp.	✓	—	✓
Drosera pygmy sp.	✓	—	R
Hesperantha falcata	✓	✓	
Stylidium bulbiferum	✓	✓	✓

old

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL08
Date 29.11.96
Rescate

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
								No H. lissocarpa			
								(all H. erinacea)			
								Verticordia huegliana	//		
								Mel. aff. scabra	//		
								Haemodorum sp.	//		
								Annual grasses	//		
MALLEES								Microlis sp	//		
								Centrolepis aristata	//		
				GRASSES				Aira caryophyllea	//		
								Loroczyna flexuosa	//		
								Linum sp. (yellow weed herb)	//		
SHRUBS								Briza minor		//	
								Cantaurus / Isopeals		//	
								SEDGES			
								Lysinia anthoroides	//		
								Cassytha sp	//		
								Drosera - pygmy	//		
								Podotheca	//		
				HERBS				Pimelia sp - imbricata ?	//		
								~~Hibbertia paniculatum~~			
				S. dichot.		←		Large yellow Stylidium	//		
								Medicago / Trifolium			
								Danthonia sp			
								Lepidosperma tenuis ?			
								Dilobus manglesianus			

pressed.

Auo

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE Label each plant with plants number, site code, date and plant's name or working name if required

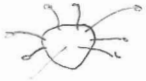
SITE No	WAYL 08.
Date	5/9/96

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
E. wandoo			
~~MALLEES~~ SHRUBS			
Hak. H. erinaceae ✓			
Hak. H. lissocarpha ✗			
Hypo H. augustifolium ✓			
~~SHRUBS~~			
Verticordia sp.			✓
Dryandra nivea			✓
Melaleuca ? scabra ✓			✓
Baeckea camphorosmae ✓			✓
Hak. myrtoides ✓			
Hoffbertia commutata			✓
Hib. hypericoides			✓
Pea - Mirbelia sp? Dillwynia			✓
Hibbertia reprout			✓
~~Trees~~			
↓			
prob			
Pimelia —			✓
P. imbricata?			

SHRUBS (cont.)	No	Fl	ID
Eriochilus (little orchid		✓	
• Apiaceae			
→ Homalo sciadium · hollmallocarpum		✓	
Divided leaf	✓		
GRASSES			
Neurachne alopecuroides	✓		
• Pimelea sp- (from WAYL 05) large specimen	?		
• Anagalis arvensis Pimbricate			✓
• Trachymene pilosa			
Drosera erythrorhiza			
HERBS			
Haemodorum sp- old inflorescence			✓
Sowerbaea laxiflora			
Romulea rosea	✓		✓
Anigozanthus ~~manglesii~~ bicolour			✓
Drosera Menziesii			✓
Drosera sp? -			✓
~~Herb~~ Ursinia anthemoides			✓
Borya sphaerocephala	✓		
Briza maxima	✓		✓
Tribonanthes			✓
Stylidium sp- (looks like ? Laxmannia)			✓

HERBS (cont.)	No	Fl	ID
Yellow Thelymitra ? flexuosa T. antennifera			✓
Quinetia urvillei ✓	✓		
Hypochaeris glabra ✓	✓		
S. Afr. Anthericaceae - Spiroxis?	✓		
Large leaved Thelymitra			✓
Centrolepis (sterile)	✓		
Phyllodrella sp.			✓
Lomandra sp.			✓
Trichloglina sp (purple leaves)			
Laxmannia			✓
~~SEDGES~~ Small annual Stylidium ? Pilosa small basal rosette			✓
S. petiolare			
• Brachycomb.	✓		
• Cassytha sp (same sp.)			
• Gompholobium marginatum			✓



Drosera sp. (in flower)

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE Label each plant with plants number, site code, date and plant's name or working name if required

SITE No WAYL 09
Date 5/9/96

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
E. calophylla ✓			
MALLEES Shrubs			
H. erinacea			
Xanthorrhea preissii ✓			
Dryandra ~~preissii~~ ✓			
H. lissocarpha			
SHRUBS			
Acacia saligna ✓			✓
Leptospermum erebescens ✓			
Hibb. hypericoides ✓			✓
Phyl. calycinus ✓			
Dry. nivea ✓			
Calothamnus quadrifidus ✓			

SHRUBS (cont.)	No	Fl	ID
Neurachne alopecuroides			
GRASSES			
Hairy grass sp ? (stipa? Danthonia)			✓
Loxocarya flexuosa			✓
Dioscorea Hastifolia			✓
Homalosciadium Homallocarpum			✓
Stachhousia sp			✓
Ursinia anthemoides	1000		
Thysanotus manglesianus	1100		✓
Trachymene but not			
HERBS			
Cape Tulip.			
Chelianthes sp (fern) ✓			
Hypochaeris glabra ✓			
Muellenbeckia ~~plus~~ adpressum			✓
Stylidium bulbiferum			✓
Romulea rosea			
Briza maxim.			
Dampiera sp. → sterile			

HERBS (cont.)	No	Fl	ID
Caladenia flava (leaves)			✓
Caesia sp.			✓
Pterophila ? ✓			
↳ Isopogon asper.			
Arthropodium capilipes. ✓			
Caladenia spider sp.			✓
Acacia pulchella ✓			✓
Haemodorum sp. - paniculatum			✓
Trachymene pilosa — red			✓
Anagalia arvensis ✓ abaxial			✓
SEDGES			
Oxalis sp.: (as WALY05)			✓
red abaxial.			

condtn = B/50. 3/5 (2½) v. weedy

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WALY09
Date	29.11.96
	Rescore

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

H. ericaea only
No. H. lisocarpa!

TREES	No	Fl	ID
MALLEES			
SHRUBS			

SHRUBS (cont.)	No	Fl	ID
Dioxanea bastifolia			//
			✓
Grevillea pilulifera seedlings? / repeat?		//	
GRASSES			
Xan. gracilis			
Sonchus lactifolia	//		
Cassytha sp.	/		
HERBS			

HERBS (cont.)	No	Fl	ID
Dryandra fraseri			/
Acacia pulchella			/
Caesia micrantha			//
Stipa sp	/		
Unid compact grass	/		
Sonchus oleraceus	/		
Ixopogon aspor	/		
Lexocarya flexuosa	//		
Stackhousia sp			✓
Linum? - yellow herb weed			/
L pink herb - opp. leaves			//
SEDGES			
3 spp. unid grass 2 x tall 1 x short	//		
Ptilotus sp - tall erect cauline leaves			//
Cape tulip	//		
white scroph.	//		
Tall grass - sparse infl.	/		
Tho Billardiera in bags	/		
ADS			
Billardiera floribunda	(ADS)		

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL10
Date 5.9.96
29.11.96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES SHRUBS	No	Fl	ID
Isopogon dubious			✓/R
Hakea undulata	—		✓/R
Dryandra armata	—		✓/R
Dry. lindleyana	—		✓/R
Baeckea camphorosmae	—		✓/R
Acacia pulchella	—		✓/R
ADS: Synaphea sp.	—		✓
Petrophile biloba	✓		✓/R
Thomasia glutinosa	✓		✓/R
Lysinema ciliatum	✓		✓/R
Hibbertia subvaginatum	✓	✓	✓/R
ADS: Isopogon divergens	✓		✓
Calothamnus sanguineus	✓	✓	✓/R
Andersonia aristata	✓	✓	✓/R
Beaufortia purpurea	✓	✓	✓/R
Verticordia huegelii	✓		✓
Xanthosia candida	✓	✓	✓/R
Leucopogon pulchellus	✓		✓/R
Hovea pungens	✓	✓	✓/R
Verticordia acerosa preissii		✓	✓/R
'V. "yellow" in original sheet'			
Jacksonia alata	✓	✓	✓/R
Calytrix glutinosa	✓		✓/R
~~Thomasia foliosa~~	✓		
ADS: Hovea pungens		✓	
Verticordia acerosa → straight not acerose leaves		✓	✓/R
Isopogon aspera	—		✓/R
Hibbertia hypericoides	—		✓/R
Xanthorrhoea preissii	—		✓/R
Melaleuca radula	—		✓/R
Hakea erinacea	—		✓/R
Allotasuarina humilis	—		✓/R

SHRUBS (cont.)	No	Fl	ID
Drosera stolonifera porecta	✓		O
Thysanotus manglesianus	—		✓/R
Hypochaeris glabra	—		✓/R
Homalocarpum homalosciades	—		✓/R
'Haemodorum sp. (strapleaf)	—		✓
Gompholobium marginatum	—		✓/R
Gladiolus sp. ~~caryophyllaceus~~	—		✓/R
GRASSES			
Vulpia bromoides		✓	✓/R
Amphipogon strictus		✓	R
Briza maxima	—		✓/R
Neurachne alopecuroidea			✓/R
HERBS			
Tricoryne elatior	✓	✓	✓/R
Trachymene pilosa	✓	✓	✓/R
Borya sphaerocephala	✓		✓/R
Laxmannia squarrosa	✓	✓	✓/R
Stylidium repens	✓	✓	✓/R
Burchardia congesta	✓		✓/R
ADS: Anigozanthus bicolor ssp bicolour	✓		✓
Actinotus leucocephalus	✓	✓	✓/R
Conostylis setosa	✓		✓
Ptevochaeta paniculatum		✓	R
Levenhookia stipitata		✓	R
Centrolepis aristata		✓	✓/R
Chamaescilla corymbosa		✓	✓/R

HERBS (cont.)	No	Fl	ID
~~Xanthosia candida~~		✓	R
Siloxerus humifusis	✓	✓	R
Centrolepis drummondiana	✓	✓	✓/R
Wahlenbergia preissii	✓	✓	R
Cassytha pomiformis	✓	✓	✓/R
~~ADS: Stylidium bulbiferum~~		✓	NO!
Lomandra preissii	✓	✓	?
Caladenia marginata	✓	✓	✓
Thelymitra benthamiana	✓	✓	✓
Leptorhynchos fimbriata	✓	✓	✓
Pterostylis sanguinea	✓	✓	✓
Pterostylis vittata	✓	✓	✓
Diuris sp. indet	✓		
SEDGES			
Lepidobolis preissianus	✓	✓	✓/R
Schoenus nanus	✓	✓	✓/R
ADS: Stylidium dichotomum		✓	R
Romulea rosea	—		✓/R
Drosera menziesii	—		✓
Quinetia urvillei	—		✓
Stylidium calcaratum	—		R

is this adj!

```
Ctenophorus caudicinctus......|                    |*     |      |   | |   |                    |        |        |                |        |
Gehyra punctata...............|                    |*     |      |   | |   |                    |        |        |                |        |
Morelia perthensis............|                    |*     |      |   | |   |                    |        |        |                |        |
Morethia ruficauda............|                    |*     |      |   | |   |                    |        |        |                |        |
Ctenotus severus..............|                    | *  **|      |   | |   |                    |        |        |                |        |
Litoria rubella...............|                    | *  * |      |   | |   |                    |        |        |                |        |
Uperoleia russelli............|                    |**  * |      |   | |   |                    |        |        |                |        |
Lerista gascoynensis..........|    *   *           |* ****|      |   | |   |                    |        |        |                |        |
Lerista aff. muelleriA........|                    |* ****|      |   | |   |                    |        |        |                |        |
Limnodynastes spenceri........|                    |***** |      |   | |   |                    |        |        |                |        |
Neobatrachus spB..............|                    |  *** |      |   | |   |                    |        |        |                |        |
Neobatrachus sp (D)...........|                    |  *** |      |   | |   |                    |        |        |                |        |
                                                                                                 |_______|_______________|________|
                                                                                                 |       |       |       |       |
                                                                                                0.24    0.36    0.48    0.60
                                                                                                DISSIMILARITY COEFFICIENT
```

pressed

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE — Label each plant with plants number, site code, date and plant's name or working name if required

SITE No	WAYL10
Date	5/9/96

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

~~TREES~~	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
SHRUBS				Lepidobolus sp.			✓	Leperanthus sp. (Orchid) Bunny	✓		
Halgea undulata ✓			✓	(Restionaceae)				~~Thy~~ ~~the~~ Thelymitra sp? (No flower)			✓
Petrophile biloba ✓			✓	spicky with flowers							
Hibbertia subinvaginatum ✓			✓	Pterostylis sp (Sterile)			✓	Allocasuarina humilis ✓			
Hovea pungens ✓			✓	H. ericacea ✓							
Verticordia - yellow. ✓			✓	Flattened stem - Cladodes			✓	Burchardia sp? (Sterile)	✓		
~~MALLEES~~				(J. alata?) Shrub sp? (Goodlineaceae)							
~~Verticordia~~				No i				Haemodorum sp?	✓		
Isopogon dubious ✓			✓	GRASSES				thick leaf (1.5cm)			
Thomasia gl. Lasiopetalum sp.			✓	Bonya sphaerocephala ✓			✓				
Dryandra armata ✓				Unid grass →				Gompholobium marginatum ✓			
~~SHRUBS~~				Chaemosila corymbosa ✓			✓	Gladiolus sp. ✓			
Dry. nivea ✓				Woolly asteraceae sp?			?	Fruiting lily sp? ?			
Baeckea ericophorosemae ✓				Stylidium repens ✓			✓	SEDGES			
Lysinema ciliatum ✓			✓	Laxmannia			✓	Lepidosperma tenuis ✓			
Calothamnus sanguineus ✓			✓	Trachymene pilosa			✓				
Acacia pulchella ✓				Unid - looks like Trachymene			✓	Drosera magnesii			
Isopogon asper ✓				→ bipinnate leaf				Neurachne alopecuroides	✓		
Hibbertia hypericoides ✓				HERBS Actinotus.							
Xanthorrhoea preissii ✓				Romulea rosea ✓				Cassytha sp. (same as before)			✓
Melaleuca fulgens ✓				Thysanotus manglesianus							
Beaufortia purpurea ✓			✓	Hypochaeris glabra ✓				Pterostylis sp ~~[illegible]~~			✓
Calytrix sp. purple glutinosa			✓					Conostylis setosa			✓
Andersonia sp. (no flowers) — late ~~[illegible]~~				Caladenia sp? (flava - Sterile)			✓				
Leucopogon pulcherrimus?		✓	✓					Trypcomyrex elatior			✓
				Briza maxima	✓						
				Centrolepis ~~centrata~~ aristata	✓		✓				
Isopogon sp ADJAC			✓								
Synaphae sp. ADJAC.				Homallosciadies homalocarpum			✓				
				Homallosciadium →							

(* Isopogon divericata? - ADJACENT → divergens
* Synaphae sp? ADJACENT

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAUL WAUL
Date	29.11.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

No H. lisso.

TREES	No	Fl	ID
MALLEES			
SHRUBS			

SHRUBS (cont.)	No	Fl	ID
Dizty sacrae or Jacksonia alata	✓		
Casuarina sp	✓		
GRASSES			
HERBS			

HERBS (cont.)	No	Fl	ID
Verticordia acerosa			✓
Melaleuca radula (not fulgens)			✓
Calytrix glutinosa?			✓
Andersonia sp			✓
Lepidobolis sp			✓
Hovea pungens			✓
Jacksonia alata/monticola			✓
Darwinia squarrosa			✓
Actinotus sp			✓
Controdeps anisata			✓
Lasiopsis paniculatum			✓
Aira caryophyllea			✓
SEDGES			
Uni small grass			✓
Wahlenbergia sp ? - or			✓
Quinota uruensis			✓
Annual Isolepis/Schoenus - styl. calcaratum			✓
Tricorine elatior			✓
Hypochaeris glabra			✓
Podotheca sp			✓
Pink Leucopogon			✓
Pink Leucopogon?			
Xanthosia candida			✓

Weed invasion from adj. goat track - D. [illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL 11
Date 29.11.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
MALLEES			
SHRUBS			

SHRUBS (cont.)	No	Fl	ID
Grevillea pilulifera			
seedling ?			
Unid. short, compact grass		✓	
Briza maxima		✓	
Tall grass			
(=Danthonia sp		✓	
Styl. bulbiferum		✓	
GRASSES			
Darwinia citriodora		✓	
Unid sterculiaceae		✓	
HERBS			

HERBS (cont.)	No	Fl	ID
Verticordia ascerosa			✓
Actinotus			✓
Waitzia panniculatum			✓◢
A. oritophylla			◢
Melaleuca radula			✓
Calytrix glutinosa			✓
Laxmannia squarrosa			✓
Centrolepis aristata		✓	
Podotheca sp.		✓	
Tricoryne elatior			
Rhodanthe cotula			✓
Lepidobolis			◢
SEDGES ← Conostylis androstemma.			
Unid sedge-like: stems 10cm high			✓
Pink Leuenhookia sp			✓
Short, smooth, terete Lepidosperma			
Haemodorum sp		✓	
Small annual Schoenus		✓	◢
Small yellow herb		✓	
\ Linum			
Stylidium brunonianum			
Acacia teretefolia		✓	
Lomandra // caespitosa // Schoenus sp			✓
Verticordia hueghi			
V. acerosa			
Aira caryophyllae			

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL 11

Date → conf. dets.

6.9.96

29.11.96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

~~TREES~~ SHRUBS	No	Fl	ID
1			
Verticordia huegelii	—		R
Grevillea pilulifera seedling	—		R
Hakea erinacea	—		R
Hibbertia subvaginatum	—		R
Calytrix glutinosa	—		R
Dryandra lindley.. lindley..	—		R
Beaufortia purpurea		✓	R
Melaleuca radula		✓	R
Verticordia acerosa		✓	R
Acacia sessilis	✓	✓	✓
Acacia restiacea	✓	✓	✓
Acacia oncinophylla subsp oncinophylla	✓		R
Darwinia citriodora	✓		R
Grevillea endlicheriana	✓		✓
Guichenotia sarotes subsp sarotes	✓	✓	✓
Cryptandra nutans	✓		R
Leucopogon pulchellus	✓		✓
Synaphea gracillima	✓		R
Dryandra fraserii v. fraserii		✓	R
Golphistolobium marginatum	—		R
Baeckea camphorosmae	—		R

SHRUBS (cont.)	No	Fl	ID
Drosera pycnoblasta	✓	✓	✓
Linum trigynum	—		R
Burchardia congesta			R
Boya sphaerocephala	—		R
Calothamnus micrantha	—		R
Romulea rosea	—		R
Chamaescilla corymbosa	—		R
Stylidium bulbiferum (unconf.)	—		R
GRASSES			
Brachypodium distachyon		✓	R
Briza maxima		✓	R
Vulpia bromoides (myia)		✓	
Danthonia acerosa		✓	R
Newrachne alopecuroidea	—		R
Piva caryophylla	—		R
HERBS			
Thelymitra crinita	✓		✓
Lawrencellia rosea	✓		✓
Pterochaeta paniculatum	✓	✓	✓
Centrolepis aristata	✓	✓	R
Homalloscadium homallocarpum	✓		R
Actinotus leucocephalus.	✓	✓	✓
Millotia ? tenuifolia seedling	✓		✓
Eriochilus sp. seedling	✓		✓
Hydrocotyle callicarpa	✓	✓	✓
Goodenia aff micrantha/clayton	✓	✓	✓
Drosera menziesii subsp menziesii	✓		✓
Conostylis androstemma	✓	✓	R
Haemodorum (?) paniculatum	✓		R

HERBS (cont.)	No	Fl	ID
Stylidium ciliatum	✓		○
~~Actinotus leucocephalus~~	✓		
Hyalosperma cotula	✓	✓	R
Centrolepis drummondiana	✓		✓
~~Goodenia aff micrantha/clayton~~	✓	✓	
Wahlenbergia preissii		✓	R
Siloxerus humifusis		✓	R
Leveenhookia stipitata		✓	R
Stylidium bunonianum		✓	R
Trachymene pilosa		✓	R
Thely. benthamiana	✓	✓	✓
Stylidium repens	—		R
Thysanotus manglesianus	—		✓
SEDGES			
Lepidobolus preissianus	✓	✓	R
Schoenus nanus	✓	✓	R
Schoenus grammatophyllus	✓	✓	R
Schoenus cladotinus	✓	✓	R
Se			
~~Ptilotus declinatus ??? ?~~	✓		✓
~~small glaucous-leaved herb~~			
Lomandra squarrosa	—		R
Tricoryne elatior	—		R

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAUL 11
Date 6/9/96

Label each plant with plants number, site code, date and plant's name or working name if required
Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

~~TREES~~ SHRUBS	No	Fl	ID
Grevillea endlicheriana			✓
Verticordia yellow sp.			✓
Beaufortia purpurea			✓
Acacia sessilis Acacia - pungent phyllodes			✓
Acacia - no phyllods			✓
Acacia - stringy bark			✓
~~MALLEES~~			
Melaleuca hilians			✓
Dryandra fraseri			✓
Dryandra nivea			✓
Calytrix sp. (pink)			✓
~~SHRUBS~~ Darwinia linicolora			✓
Hibbertia subvaginata			✓
Cryptandra sp.			✓
Hakea erinacea			✓
Synaphea sp (pungent leaved)			✓
Thelymitra sp			✓
~~Neurachne alo~~			
Gompholobium marginatum			
Baeckea camphorosma			
A. onicophylla			

SHRUBS (cont.)	No	Fl	ID
Spp. Sheenus.			
• unid. grass - wiry & green S.nanus			✓
• unid grass sterile 5 leaves	n		
→ Conostylis androstemon.			
• Sterile Epacrid - Astroloma? -			
• Everlastings sp (pink) Leucochrysum roseum			✓
GRASSES			
Neurachne alopecuroides	✓		
Eriachilus sp.			✓
Stylidium rebens			✓
Centrolepis aristata Lucede on vesicore			✓
Stylidium brunonianum			✓
HERBS			
Burchardia congesta			
Haemodorum sp. paniculatum			✓
Drosera menziesii			✓
Leucopogon pulcherrimus?			✓
Borya sphaerocephala			
Thysanotus manglesianus			
Gaesia sp (as before)			
Romulea rosea			
Trachymene pilosa			
Rhizomosia corymbosa			
Drosera sp (pygmy)			✓

HERBS (cont.)	No	Fl	ID
Gwichenotia Stereculiaceae sp. - Flio (in early bud)			✓
Lanceolate leaves.			
• Trachymene - live herb			✓
seen in UAUL 10 Actinotus leucocephalus			
Homalosciadium homalocarpum			✓
Hydrocotyle sp? (Apiaceae)			✓
• Small glossy leaved herb red flower stalk 'Ptilotus? declinatus'			
SEDGES			
Lepidosperma tenuis			
Lyginia sp - collected Sedge w. swollen black bases			✓ Lepidobolus preissianus
Waitzia paniculata v. young silvery herb			✓
~~Acacia~~			
~~ADJACENT~~			
ADJACENT • Stackhousia sp			

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL12
Date 6.9.96
dors 29.11.96 R (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Euc. wandoo	—		R
Dry bipinnitifida	—		R
Dryandra lindleyi.. lindley..	—		R
Xanthorrhoea preissii	—		R
Macropamia riedlii	—		R
Hakea undulata (seedling)	—		R
Hakea lissocarpha		✓	R
Thomasia foliosa	✓		✓
Leucopogon propinquus		✓	R
Isopogon asper		✓	R
Hibbertia hypericoides		✓	R
Hibbertia commutata		✓	R
Phyllanthus calycinus	—		R
Gonphodolium marginatum	—		R
15			

SHRUBS (cont.)	No	Fl	ID
Stackhousia monogyna		✓	R
Pterostylis vittata	✓		✓
Hypocharis glabra	—		R
Dianella revoluta	—		R
Drosera erythrorhiza	—		✓
Drosera menziesii	—		✓
Stylidium bulbiferum (unconf.)	—		✓
GRASSES			
Microlaena stipoides (sterile)	✓		✓
Brachypodium distachyon		✓	R
Danthonia setacea		✓	R
Aira caryophyllea		✓	R
Briza minor		✓	R
Stipa pycnostachya		✓	R
Briza maxima		✓	R
Neurachne alopecuroidea	—		R
~~Tetrarrhena laevis~~			
HERBS			
~~Pterostylis vittata~~	✓		
Eryngium pinnatifidum var pinnatifidum	✓	✓	R
Lawrencellia rosea	✓		R
Trichocline spathulatum	✓		✓
Craspedia ~~sp.~~ variabilis	✓		✓
Millotia ? tenuifolia - seedling..	✓		✓
Hypoxis occidentalis	✓		✓
Trachymene pilosa	✓	✓	✓
Oxalis perennans	✓		✓
Orthrosanthus laxus laxus	✓	✓	R
Patersonia juncea	✓		O
Ptilotus manglesii	✓	✓	R

HERBS (cont.)	No	Fl	ID
Podolepis gracilis	✓	✓	R
Hypoxis glabella	✓		✓
Centaurium erythraea		✓	R
Daucus glochidiatus		✓	R
Lagenifera huegelii		✓	R
Galium divaricatum (id=J)		✓	R
Centrolepis drummondiana		✓	
Centrolepis aristata		✓	R
Anagalis arvensis		✓	R
Pterocraeta panniculatum		✓	R
Thysanotus tenuellus Lange		✓	R
Cassytha pomiformis		✓	R
Bartsia trixago		✓	R
Caesia micrantha	—		R
Hydrocotyle sp. callicarpa	—		✓
Conostylis setosa		✓	R
Xanthosia candida		✓	R
Chamascilla corymbosa			R
Goodenia micrantha (cf?)		✓	
Haemodorum sp. (strap leaf)	—		✓
Arthropodium callipetalum	—		✓
Quinetia urvillei	—		✓
Romulea rosea	—		✓
SEDGES			
Tetraria octandra	—		R
Desmoladus asperula	✓		R
		✓	

No. P. lessonii ✓

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  DISTANCES ARE     X                                                  □□□□□□□□
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FITTED IS 4   5   6   7   8   9
  K-S CRITERION =  .616  SUPREMUM = *****  WITH SIGNIFICANCE = **      AND
PARAMETER(S) =   0    1     .0000      .3590E-01
```

THE FREQUENCY TABLE FOR GROUPED DATA IS AS FOLLOWS

INCL.UPPER LIMITS	FREQUENCY	DISTANCE
5.00	21.00	X
10.00	11.00	X
15.00	8.00	X
20.00	2.00	X
25.00	1.00	X
30.00	3.00	X
35.00	1.00	X

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PO

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL12
Date 29.11.96
Rescore

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

NB 30"-70% Mixed herb grass layer!

TREES	No	Fl	ID
MALLEES			
SHRUBS			

SHRUBS (cont.)	No	Fl	ID
GRASSES			
Tet. capillipes??			
Lepidosperma			
Tet. octandra			
Dryphelia // Astrodonia / Leucopogon			
Epacrid			
Conostylis setosa		//	
Xanthosia candidans		//	
Isopogon asper		//	
HERBS			
Dichelachne sciurea = Trachymene	//		
foliosa			

HERBS (cont.)	No	Fl	ID
~~Pl. erinacea~~			
Arthrosorchus	//		
Loxocarya flexuosa	//		
Hakea undulata - ~~[illegible]~~	//		
(seedlings			
Dianella revoluta	//		
Stipa ~~elegantissima~~ maxx?	//		
Scrophs -	//		
Waitzia paniculatum	//		
Briza minor	//		
Briza major	//		
Centrolepis strigosa	//		
Caulis (thickweed)	//		
SEDGES			
Aira caryophyllea	//		
Small compact grass	//		
Danthonia sp	//		
Hypochaeris glabra	//		
Pink on leaved herb	//		
Cassytha sp.	//		
Dampiera lanifolia	//		
Dracophyllum??? (NF!)			
(could be Ptilotus)			
Ptilotus manglesiana	//		
Daucus glochidiatus			

?

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAVL 12
Date	6/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
E. wandoo ✓			
MALLEES			
SHRUBS			
• H. bissocarpha ✓			✓
H. undulata ✓			
Hib. hypericoides ✓			✓
Hibb. commutata ✓			✓
Phyllanthus calycinus ✓			
Macrozamia riedlei ✓			
Xanthorrhoea preissii ✓			
Dry sedge			
Dry bipinnatifida ✓			

SHRUBS (cont.)	No	Fl	ID
Tradymene pilosa			■
Hypoxis sp.			■
Crezia sp.			
Podolepis sp. ✓			■
Gompholobium marginatum ✓			
Hypocharis glabra ✓			
Anagalis arvensis ✓			✓
GRASSES			
Neurachne alopecuroides ✓			
~~Plagiotus~~			
• Ptilotus mendesianus. (pink abaxial indumentum check other site where recorded as Trichloraine) ✓		✓	
Hydrocotyle. sp			
HERBS			
Orthorganis - (anthericaceae) ✓			✓
Triculorline sp. (Asteraceae - silver ✓ abaxial indumentum)			✓
Chrysocephalum corymbosum			✓
Lagenifera huegelii ✓			✓
Everlasting sp pink Leucochrysum			■
~~Eryngium~~			
~~Wahlenbergia~~ ~~sp~~ sp.			
• ~~Trifolium~~			
Eryngium (apiaceae) ✓		✓	■
Haemodorum sp. (strap leaved)			
Briza maxima			

HERBS (cont.)	No	Fl	ID
Daucus glochidiatus			✓
Arthropodium sp.			
Quinetia urvillei			
Loxocarya flexuosa ✓			✓
Diuchella renifolia ✓			
Drosera erythrorhiza			
Oxalis sp. (w. taproot)			✓
Craspedia sp (as seen before)			■
Dianthoria sp. ✓			✓
Romulea rosa ✓			
SEDGES			
Small asteraceae (terete leaved) Millotia			■
Grass sp (Tetrarheria or Microlaena) check id			✓
• Drosera menziesii			
• Thomasia ? foliosa			✓
• Pterostylis vittata			✓
• Stylidium bulbiferum			
• Xanthosia sp.			✓

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL 13
Date	6.9.96
	29.11.96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Euc. accedens	—		✓/R
ADS: Euc. wandoo	—		✓
ADS: Dry. lindl. lindleyana	—		✓
Macrozamia riedlei	—		✓/R
Xanth. preissii	—		✓
Petrophile striata	—		✓/R
ADS? Grevillea synaphea (ADS)	✓		ADS
Petrophile striata	✓		✓
Hibbertia huegelii	✓		✓/R
Gompholobium marginatum		✓	✓/R
Grevillea pilulifera (seedling)	✓		✓
Grevillea pilulifera	✓		✓/R
Isotropis ~~cuneata~~ cuneifolium	✓		✓/R
Phyllanthus calycinus		✓	✓/R
Hibbertia commutata		✓	✓/R
Hibbertia hypericoides		✓	✓/R
Dryandra bipinnatifida		✓	✓/R
ADS: Xanth. acanthostachya	✓		
Melaleuca aff. scabra	✓		
Hibbertia lasiopus	✓		✓/R
Hakea lissocarpha	—		✓/R
Acacia pulchella (seedling)	—		R

SHRUBS (cont.)	No	Fl	ID

GRASSES	No	Fl	ID
Aira caryophyllea		✓	R
~~Danthonia sp.~~	✓		✓/R
Danthonia setacea		✓	✓/R
Vulpia bromoides (AN)		✓	✓/R
Briza minor		✓	
Neurachne alopecuroidea	—		✓/R
Briza maxima	—		✓

HERBS	No	Fl	ID
Stylidium affine	✓	✓	✓/R
Podolepis gracilis	✓	✓	✓/R
Thysanotus tenellus	✓		✓
Xanthosia candida	✓	✓	✓/R
Stylidium brunonianum	✓		✓
Conostylis setigera (sterile)	✓		✓/R
Levenhookia pusilla	✓		✓
Ursinia anthemoides	✓	✓	✓/R
Trachymene pilosa	✓	✓	✓/R
Caesia micrantha		✓	✓
~~Ursinia anthemoides~~		✓	R
Daucus glochidiatus		✓	✓/R
Homalocladium homallocarpum		✓	✓/R

HERBS (cont.)	No	Fl	ID
Stackhousia monogyna		✓	✓/R
Opercularia vaginata		✓	R
Hypochaeris glabra		✓	R
Conostylis serosa		✓	R
Anagalis arvensis		✓	✓/R
Stylidium calcaratum	✓	✓	✓
Hydrocotyle callicarpum	✓		✓/R
Dillotus drummondii drummondii		✓	R
Conosperma calyculata		✓	R
Lomandra sericea		✓	R
Lomandra brittanii		✓	R
Lomandra micrantha		✓	R
Thely. crinita	✓		✓
Styl. bulbiferum	—		✓/R
Chamaescilla corymbosa	—		✓
Romulea rosea	—		✓/R
Logenifera huegelii	—		✓/R
Drosera macrantha	—		✓
Caladenia flava	—		✓
Cassytha sp.	—		✓
Quintetia uvillei	—		✓/R
Burchardia congesta	—		✓
Trichodine spathulatum	—		R

SEDGES	No	Fl	ID
Schoenus nanus		✓	✓/R
Desmocladus asper		✓	✓/R

```
Delma aff. australisB.........|  *           *     |      |      |   | |   |                 |       |                          |           |
Morethia butleri..............|              *     |      |      |   | |   |                 |       |                          |           |
Morethia obscura..............|              *     |      |      |   | |   |                 |       |                          |           |
Ctenotus uber.................|   *                |*     |      |   | |***|                 |       |                          |           |
Lerista aff. kendrickiB.......|                    |      |      |   | * |                 |       |                          |           |
Lerista aff. muelleri (D).....|                    |      | *    |   |***|                 |       |                          |           |
Ctenotus mimetes..............|         *      *   |      |      |   | |   |                 |       |                          |           |
Tiliqua occipitalis...........|               **   |      |      |   | |   |                 |       |                          |           |
Neobatrachus spC..............|                 *  |      |      |   | |   |  *              |       |                          |           |
Tiliqua multifasciata.........|                 *  |      |      |   | |   |                 |       |                          |           |
Egernia stokesii..............|                    |      |      |   | |   |                *|       |___                       |           |
Gemmatophora longirostris.....|                    | *    |      |   | |   |            *    |       |  |                       |           |
Pseudophryne guentheri........|                    | *    |      |   | |   |                 |   *   |__|_                      |           |
Ctenophorus inermis...........|      **  *        *|   ***|  * * |***| |   |                 |      *|  |                       |           |
Neobatrachus wilsmorei........|  *   ****          |  ****|      |   | |   |**               |     **|  |                       |           |
Ctenotus schomburgkii.........|***** *********     |* ****|      |   | |   |        *     *  |       |  |                       |           |
Rhynchoedura ornata...........| ***  ******        | *****|   *  |   | |   |                 |       |  |                       |           |
Pseudonaja modesta............| **                 |    **|      |*  | |   |                 |       |  |                       |           |
Ctenophorus reticulatus.......|**    *****   **** *|  ****|  *  *|   |*| **|                 |       |  |                       |           |
Diplodactylus squarrosus......|**** ******  * *****| ** **|  **  |** | |   |* *    *         |       |  |                       |           |
Lerista uniduo................|*************  **** |******|  ****|*  | |   |** * *  **      *|       |  |                       |           |
Lerista aff. muelleriB........|********************| *    |  ** *|   | |   |                *|    *  |  |                       |           |
Varanus caudolineatus.........|  ** *  *           |   *  |  *   |   | |*  |                 |       |  |                       |           |
Ramphotyphlops aff. grypusA...|**     *        *   | *  * |  **  |   | |   |                 |       |  |                       |           |
Cyclorana maini...............|                    | *****|  * * |   | |   |                 |       |  |                       |           |
Diplodactylus aff. albogutB...| *                  |*    *|  ** *|   | |   |                 |       |  |                       |           |
Diplodactylus conspicillatus..|**             ***  |   * *|    **|   | |   |                 |       |  |                       |           |
Ramphotyphlops hamatus........|       **        ** |     *|  * * |   | |   |  *              |       |  |                       |           |
Eremiascincus fasciolatus.....|      **            |   *  |*   **|   | |   |                 |       |  |                       |           |
Diplodactylus aff. pulcherA...|   *       **    ** |      |  ****|   | |  *|   * **         *|       |  |                       |           |
Varanus gouldii...............|                 * |  *   |  *** | * | |   |    *   **       |       |  |                       |           |
Pygopus nigriceps.............|    *              *|      |  *   |   | |   |   *             |       |  |                       |           |
Ctenophorus scutulatus........|  *  ***** **** **  |      |      |   | |   |   **            *|       |  |                       |           |
Lerista connivens.............| *  **   ****** *   | *    |      |   | |   | *  *  *        **|       |  |                       |           |
Heteronotia binoei............|    ** *************|***   |      |   | |   |       *     **  |       |  |                       |           |
Menetia aff. greyiiA..........|*** **  ** *     ** |***** |      |   | |* *|*******       *  |       |  |                       |           |
Demansia calodera.............|              *****|      |      |   | |   | **  *       *   |       |  |                       |           |
Moloch horridus...............|             * ***  |      |  *   |   |*|   |*  * **    * *   |      *|  |                       |           |
Diplodactylus strophurus......|       * *     ** * |  ** *|**  **|** |*|   |***  ***** * ***  |       |  |                       |           |
Gehyra variegata..............|*************** * * |******|******|*  | |** |************* * *|*   ***|  |                       |           |
Nephrurus levis...............|* **  **   *    *** |***** |* ****|*  | |   |*****************|**    *|  |                       |           |
Pogona minor..................|* ** *** *   **** **|      |   ***|*  | |***|**** ************| *** **|  |                       |           |
Lerista macropisthopus........|******* *********** | *  * |******|*  | |** |*****        ****|       |  |                       |           |
Varanus eremius...............|* ******       *****|      |*** **|   | |   |***** *    *   **|       |  |                       |           |
Vermicella bertholdi..........|  * *   **     **** |  *** |**  **|   | |   |**   **  *      *|       |___|_____                |           |
                              |--------------------+------+------+---+-+---+-----------------+-------|       |                          |           |
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BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL13

Date 29·11·96

Rescore

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Lagenifera huegelii //

Stackhousia // / Tripterococcus?

Xanthosia candicans //

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
								Ptilotus sp (erect)			//
								x Danthonia sp			//
								Petrophile striata			//
								Ursinia anthemoides			//
								Hypochaeris glabra			//
MALLEES								Homna/ Hydrocotyle		/	
								Aira caryophyllae		//	
				GRASSES				Stylidium bulbiferum		//	
								Styl. affin?? -(NF)			//
SHRUBS											
								Lomandra - hermaphrodita // ~~(ADS)~~			
								SEDGES | 1(IN)			
								:large, broad blue		//	
								Lomandra sp		//	
								(narrow leaves			
								Opercularia hispidula		/	
				HERBS				Caesia sp	//		
								Conostylis setosa (NF)			
								~~Lep. [illegible], smooth~~			
								Lomandra sp			
								Acacia pulchella (seedling)			//
								Lep. angustifolia ?)			
								fine-leaved Lomandra			//
								Trichocline spathulatum			//

pressed

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL 13
Date 6/9/96

Label each plant with plants number, site code, date and plant's name or working name if required
Record on Sheet
- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
E. accedens ✓			
~~MALLEES~~ SHRUBS			
Macropomia reidlii ✓			
xanthorrhoea preissii ✓			✓
Hibb. huperi ✓			✓
Hakea lisso. ✓			✓
SHRUBS			
Dryandra bipinnatifida ✓			✓
~~Hemiphora~~ Hibb. sp large flowers ✓			✓
Hibb. commutata ✓			✓
Phy. cal. ✓			✓
~~[illegible]~~ ✓			
Conostylis ~~spinigera~~ setigera (?) leaves ✓			✓
Grevillea pulchella ✓			✓
Petrophile ~~macrostachya~~ striata? ✓			✓

SHRUBS (cont.)	No	Fl	ID
Gompholobium marginatum ✓			✓
Podolepis ✓			✓
Annual Shoenus -sp? ✓			✓
Ulsinea arthrotaxoides ✓			✓
Hydrocotyle sp (as seen WAYL 11+12)			
Anagalis arvensis ✓			✓
Trachymene ~~[illegible]~~ pilosa ✓			✓
Stylidium bulbiferum ✓			
GRASSES			
Isotropis cuneifolia ✓			✓
Xanthosia sp. ✓			✓
Thysanotus -sp. basal rosette			✓
Podolepis ✓			
Neurachne alopecuroidea ✓			
Stylidium sp. long, glabrous leaves			✓
Briza maxima ✓			
HERBS			
Chamaesila corymbosa ✓			
Romulea rosea			
Lagenifera huegelii ✓			
Caesia sp. ✓			✓
Unid dicot - (Viridium?: G. pilulifera seedling) Rhamnaceae leaves			✓
Big leaved thelymitra sp ✓			✓

HERBS (cont.)	No	Fl	ID
annual Stylidium (5cm high)		✓	✓
Homalosporidos hollmallocarpum		✓	✓
Daucus sp. glochidiatus	✓		✓
Loroceryx flexuosa ✓			✓
Dros. macrantha			
Caladenia flava			
Cassytha ✓			
Stackhousia sp (seen before)	✓		✓
unid grass sp. (Danthonia)	✓		✓
Vulpia (annual grass) ✓			✓
SEDGES			
Quinetis ~~[illegible]~~ ~~[illegible]~~ ✓			
Burchardia sp.			✓
Danthonia sp ✓			✓
Unid dicot - narrow lanceolate leaves - fleshy Hibbertia? - H. huegelii?			✓

Adjacent
E. wandoo
D. nivea
Grevillea synaphea

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYLITH

Date 6.9.96

29.11.96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

1st 2nd sheet data

TREES	No	Fl	ID
Eucalyp marginata		✓	✓/R
Euc. calophylla			✓/R
Dry. sessilis	—		✓/R
~~Leucopogon propinquus~~			
Xanthorrhoea gracilis	—		✓
Xanthorrhoea preissii	—		R
Hakea undulata	✓		✓/R
Styphelia tenuifolia	✓	✓	✓/R
Astroloma pallidum	✓		✓/R
Daviesia preissii	✓	✓	✓/R
Hibbertia huegelii	✓	✓	✓/R
Petrophile striata	✓	✓	✓/R
Astroloma ciliatum	✓	✓	✓/R
Hibbertia lasiopus	✓	✓	✓/R
Gompholobium polymorphum		✓	R
Acacia barbinervis		✓	R
Hibbertia hypericoides		✓	✓/R
~~Astroloma ciliatum~~		✓	✓/R
Dry			
Dryandra fraseri fraseri		✓	✓/R
Synaphea gracillima		✓	✓/R
Dryandra lindleyana lindleyana	—		✓/R
Phyllanthus calycinus	—		✓/R

SHRUBS (cont.)	No	Fl	ID
Arthropodium capillipes	—		✓
Chamaescilla corymbosa	—		✓
Romulea rosea	—		✓
Trichocline spathulatum	—		✓
Tricoryne elatior	—		✓/R
Trachymene pilosa	—		✓
Hydrocotyle callicarpa	—		✓
Stylidium affine	—		R
GRASSES			
Danthonia setacea		✓	R
Neurachne alopecuroidea	—		✓/R
HERBS			
Stylidium carnosum	✓		✓/R
Xanthosia huegelii	✓		✓
Dampiera linearis	✓		✓
Patersonia juncea	✓		✓
Orthrosanthus laxus laxus	✓		✓/R
Stylidium brunonianum	✓	✓	✓/R
Patersonia rudis rudis	✓	✓	✓/R
Laxmannia grandiflora	✓		✓
Thysanotus dichotomus	✓	✓	✓/R
Xanthosia ~~ciliata~~		✓	R
Pterochaeta paniculata		✓	R
Levenhookia pusilla		✓	R
Thysanotus tenuillus · Large w. turbinulate lac leaves. unusual		✓	R

HERBS (cont.)	No	Fl	ID
Stylidium amoenum		✓	R
Thysanotus thyrsoideus		✓	
Thysanotus sparteus		✓	
Conostylis setosa		✓	✓/R
Lomandra hermaphrodita		✓	R
Lomandra sericea		✓	R
Ptilotus manglesii		✓	✓/R
Lomandra caespitosa		✓	✓/R
Tetratheca crinita	✓		R
Thely. benthamiana	✓		✓
Haemodorum discolor	✓		✓
Drosera erythrorhiza	—		✓
Xanthosia candida	—		✓
SEDGES			
Mesomelaena tetragona	✓		✓/R
Tetrarria octandra	✓	✓	✓/R
Stylidium hispidum? - no hairs.	—		✓/R

NB.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL014
Date 29.11.96
Rescore

Label each plant with plants number, site code, date and plant's name or working name if required
Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Leucopogon prop = Styphelia = check this

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
				Xanth. gracilis				Petrophile striata		//	
				Stylidium ~~carnosum~~			//	Dryandra fraseri		//	
				carnosum				Lep. angustatum			
				Gompholobium			//	Stylidium affine		//	
				Trifolize leaf			//	Large leaved			
				Leucopogon muelleri			//	Hibb commutata		//	
MALLEES				Waitzia paniculatum			//	Stylidium sp ~~carnosum~~		//	✓
								basal short			
				GRASSES Not in WAYL13!				S. amoenum — soft ?			
								Xanth preissii			
				Stylidium brunonianum.			//	Dry basilio			
SHRUBS				Styl. piliferum							
								Lomandra sp - short tufted		//	
								SEDGES rigid leaves			
								Tricoyne elatior			//
								Lomandra hermaphroditica			//
								Tet. oct			//
				HERBS				Thysanotus - telete leaf			//
								Danthonia sp			//
								Lomandra sp - curled bases			//
								Acacia barbinervis			//
								Orthrosanthus sp.			//
								Davesia purgens?? preissii			✓
								Entire-leaf Xanthorrhoea candida			//
								Unid orchid - Thelymitra crinita			✓
								Davesia preissii			//
								Arthrolaena ciliatum			//

pressed

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WA4L 14
Date	6/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

uplands
* Jarrah Forest

TREES	No	Fl	ID
Eucalyptus marginata ✓			
Eucalyptus calophylla ✓			
~~MALLEES~~ SHRUBS			
SHRUBS			
Dry. sessilis ✓			✓
Hakea undulata ✓			✓
Hyp. hypericoides ✓			✓
Daviesia sp. preissii			✓
phelia Leucopogon propinquus ✓			✓
Patersonia juncea			✓
Dry. nivea ✓ ✓			
Phyllanthus calycinus ✓			
Synaphea sp. ✓			✓
Petrophile striata ✓			✓
Pilotus manglesii ✓			✓
Conostylis setosa ✓			✓
~~Banksia sphaerica~~			
Laxmannia sp			✓
Drosera erythrorhiza			
Xanthosia huegelii			✓
Xanthosia sp. candida			
Hibbertia sp. (large flower)			✓
Dryandra fraseri			✓

SHRUBS (cont.)	No	Fl	ID
Tuyssnotus - divaricated			✓
GRASSES			
Neurachne alopecuroides			
Arthropodium			
ruzemosila corymbosa			
g.			
• Tonale - narrowly lanceolate leaved dicot (Hibbertia) - huegelii			✓
Outhnocarpus sp g. ORTHROSANTHUS (~~Anthomeae~~) IRIDACEAE			✓
Romulea rosea			
HERBS			
~~Leucopogon~~ Lecanogon astroloma sp (~~small~~ large dice flowers)			✓
Astroloma compactum (no flowers just fruits)		?	✓
• Trichocline spathulatum			
• Patersonia occidentalis ✓			✓
• Dampiera linearis			✓

HERBS (cont.)	No	Fl	ID
• Trychorine sp (Anthericaceae)			
- Trachymene pilosa			
- Hydrocotyle sp (as before)			
• Haemodorum sp. strap leaf			✓
• Tetratheca octandra			✓
Thelymitra sp (small leaves)			✓
• Lomandra caespitosa			✓
SEDGES flat stem			
4 • Lepidosperma sp A - lepidosperma tenuis			
Mesomelaena tetragona			✓
• Large obovate - leafed stylidium S. carnosum			✓
• Lomandra sp? → white bases (stringy leaves)			✓
• Stylidium puliferum -			

rudis? ✓

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WAYL15
Date	6.9.96
	29.11.96 (R)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
Euc. calophylla	—		✓/R
SHRUBS			
Gastrolobium spinosum	✓		✓/R
Hypocalymma angustifolium	—		✓/R
Grevillea pilulifera	✓	✓	✓/R
Hibbertia commutata		✓	R
Hibbertia hypericoides		✓	✓/R
Macrozamia riedlei	—		✓/R
Calothamnus quadrifidus	—		✓/R
Acacia pulchella	—		✓/R
Phyllanthus calycinus	—		✓/R
Hakea cristata	—		✓/R
Hakea lissocarpa	—		✓/R
Dryandra lindleyana lindleyana	—		✓/R
Xanthorrhoea preissii	—		✓/R
Baeckea camphorosmae	—		✓/R
Guinetia urvillei	—		R
Linum trigynum	—		R
Centaurium erythraea	—		R

SHRUBS (cont.)	No	Fl	ID
Drosera erythrorhiza	✓		✓
Haemodorum discolor	✓	✓	✓/R
Lomandra brittanii?	✓		✓/R
Lomandra caespitosa/odora?	✓		✓/R
Anagalis arvensis	✓	—	✓/R
Romulea rosea	✓	—	✓/R
Burchardia congesta	✓	—	✓/R
Lagenifera huegelii	✓	—	✓/R
GRASSES			
Aira cariophyllea	✓	✓	R
Brachypodium distachyon	✓	✓	R
Danthonia setacea	✓	✓	✓/R
Stipa pycnostachya	✓	✓	R
Briza maxima	✓	—	R
Neurachne alopecuroidea	✓	—	✓/R
HERBS			
Hypoxis occidentalis	✓		✓
Stylidium brunonianum	✓	✓	✓/R
Trichocline spathulatum	✓		✓/R
Thysanotus tenuellus	✓		✓
Galium divaricatum	✓	✓	✓
Schoenus nanus	✓		✓
Aphelia cyperoides	✓		✓/R
Homalosciadium homalocarpum	✓	✓	✓/R
Hydrocotyle callicarpa	✓	✓	✓/R
Xanthosia candida	✓		✓/R
Thysanotus thursoideus ?	✓		✓
4 leaves ? Large T. tenuellus ?			
Leucopogon pusilla	✓	✓	✓/R

HERBS (cont.)	No	Fl	ID
Aphelia brizula	✓		✓
Centrolepis drummondiana	✓		✓
Trachymene pilosa	✓	✓	✓/R
Hyalosperma cotula	✓	✓	R
Centrolepis aristata	✓	✓	✓/R
Wahlenbergia preissii	✓	✓	R
Poranthera microphylla	✓	✓	R
Hypochaeris glabra	✓	✓	✓/R
Patersonia juncea	✓	✓	✓/R
Caesia micrantha	✓	✓	✓/R
Cassytha pomiformis	✓	✓	✓/R
Thysanotus manglesianus	✓	✓	✓/R
Conostylis setosa	✓	✓	✓/R
Arthropodium capillipes	✓	✓	✓/R
Ptilotus manglesii	✓	✓	✓/R
Cyanicula sericea	✓	✓	✓
Daucus glochidiatus	✓	—	✓
Stylidium bulbifeum	✓	—	✓/R
Eryngium pinnatifida pinnatifida	✓	—	✓
Chamaescilla corymbosa	✓	—	✓/R
Drosera macrantha	✓	—	✓
Leucopogon stipitatus	✓	—	R
SEDGES			
~~Schoenus nana~~	✓	✓	✓/R
Juncus capitatum	✓	✓	
Desmocladus asper	✓	✓	✓/R

2 spp. thysanotus.

2 sp. Aphelia ✓

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL15

Date 29.11.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
				Briza major			//	Small Lomandra sp			/
				Tall grass			///	Leucopogon pauciflorus			/
				Caesia micrantha				Styl. bulb.			/
				Acacia caryophyllae				Pink Leucopogon			/
				Grev. pilulifera			✓	Hovea hovea			✓
								Haemodorum sp. strapleaf			/
MALLEES				Ptilotus manglesianus				Helipterum?			/
				Cassytha sp				Quinetia urvillei			/
				GRASSES Hibb. commutata			✓	Hydrocotyle			/
								Wahlenbergia sp			/
				Lagenifera muelleri				Centrolepis aristata			/
SHRUBS				unid. Euphorb.				Yellow Linum			/
				compact short grass			//	SEDGES			
				Danthonia sp			//	Lep. tenue, rush, small			
								small annual grasses			
				Thysanotus manglesianus			?	Stipd. sp			
				Sclimstag							
				HERBS				Lep. tall, tacle, rough			
				Patersonia sp. -> narrow leaf			//	Pink, opp-leaved herb			

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WAYL 15

Date 6/9/96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	Fl	ID
E. calophylla ✓			
MALLEES			
SHRUBS			
• Gastrolobium spinosum	✓		
• Hyp. angustifolia	✓		
• Macrozamia riedlii	✓		
• Calothamnus quadrifidus	✓		
• Hibb. hyper	✓		
• Acacia pulchella	✓		
• Phyll. calycinus	✓		
• Hakea cristata	✓		
• Hakea lissocarpha	✓		
• Dry. nivea	✓		
• Xanthorrhoea preissii	✓		
• Baeckea camphorosmae	✓		
• Xanthosia sp ◇	✓		
• Grevillea pulvinifera	✓		

SHRUBS (cont.)	No	Fl	ID
• Loxocarya flexuosa ✓			
• Conostylis setosa			
• Stylidium sp - Brunoniana ✓			
• Annual Schoenus			
• Daucus sp			
• Homallosiadis homallocarpa			
• Danthonia sp. (grass)			
• Briza maxima			
GRASSES			
• Neurachne alopecuroidea ✓			
• Microlaena stipoides / or Tetralena uniseta			
• Hypocotyle sp. ✓			
• Hypochaeris glabra ✓			
• Anagallis arvensis ✓			
• Romulea rosea ✓			
• Trachymene pilosa ✓			
• Hypoxis ✓			
HERBS			
• Burchardia congesta ✓			
• Arthropodium capillipes ✓			
• Lagenifera huegelii ✓			
• Ptilotus manglesii ✓			
• Elythranthera sp. (blue and w)			
• Trichochine sp			
• Stylidium bulbifeum			
• Drosera erythrorhiza			
• Eryngium			
• Thysanotus sp			
• Loxocarya flexuosa ✓			
• Chamaexilis corymbosa ✓			
• Leucopogon seedlings			

look

HERBS (cont.)	No	Fl	ID
• Arthelia ? (cyperaceae)			
check!			
Brizula ×			
charred leaves			
• Galeum - (glaciaceae)			
• Stylidium sp. (brunonia ?)			
• Centrolepis aristata			
• Drosera micrantha			
• Caesia sp (as before)			
SEDGES			
• Lepidosperma sp.			
• Cassytha sp.			
• Thysanotus manglesianus			