

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA JFNP 01 SITE NUMBER JFNP 01

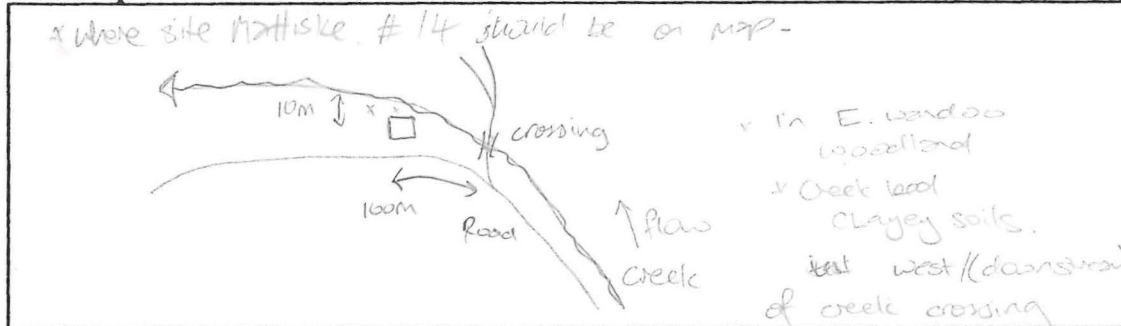
DATE TRIP 10/9/96 RECORDERS AM & ML

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° 51' 11.4" S Longitude 116° 05' 24.4" E Altitude 160m
GPS NO GPS Accuracy ± 300 (4SAT)
Map Sheet FIX

Photograph Name Number 23
(#22.R1)

Topographic Position (Circle the correct response)
Upland ☐ Lower slope ☐
Upper slope ☐ Valley ☒
Midslope ☐ Washline ☐ Creekline Valley ☒

2. SITE DATA Circle the correct response

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

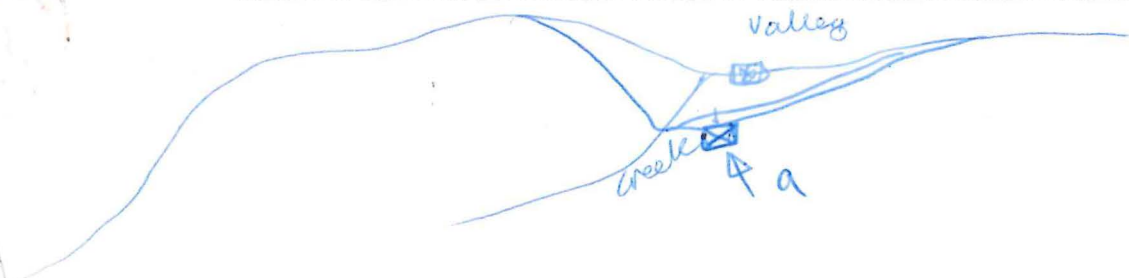
Surface Soil gritty clay Depth to Rock 1m Colour yellow-brown

Exposed Rock type quartz % surface cover 2 size range 1-2cm with 10cm rocks

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

Bare Ground 70 % surface cover

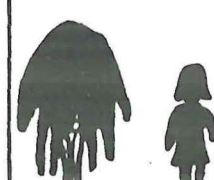
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008



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					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	10-30%	2-10%			
DOMINANT SPECIES	E. wandoo (Adjacents)	E. wandoo			
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10%		2-10%	30-70%	
DOMINANT SPECIES	H. cristata Xyris		Daviesia sp. Acacia pulchella H. comata	H. lissocarpa Phy. cal. Lomandra sp.	Chaenactis sp. Dry. nivea Hibb. hypericoides
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10-30%			
DOMINANT SPECIES		Lagenifera lugelii Neurache alpina Arthropodium			

4. VEGETATION CONDITION

Comments 1/4 3 1/2 - weed invaded. Senescent shrub layer
H undulata

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 JFNP 01

Record on Sheet

Date 10/9/96

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
E. wandoo ✓				Gonolobium marginatum ✓				clover - Trifolium (?)			///
				- Stackhousea sp? - Gonolobus				white flowers			///
				↳ reprob - no flowers	✓			Cassutha (glaberrima?)			///
				Briza maxima ✓	✓			Anagallis arvensis	✓		
								• Adiantum shrub - Saccorhiza sp.?	✓		///
				• Haemodorum sp. (strap leaf)				scale leaves - no flowers			
MALLEES				• unid grass sp. thick leaves (nana) ✓				Burchardia congesta	✓		
								Hypoxis?			
				GRASSES				Large Styidium sp			
				Thelymitra sp.				↳ basal rosette			
				Chaetochloa corymbosa				Laxmannia palmaria			
SHRUBS				Isopogon asper ✓	✓			Homaliosiphon bonalliaensis			
X. preissii ✓				↳ Laxmannia				Trachypogon pilosa	✓		///
Hyp. angustifolium ✓	✓			Dampiera alata	✓			SEDGES			
Dry. nivea ✓	✓							Chamaecris			
Hibb. hypericoides ✓	✓							Lomandra sp. - Dasypogonaceae	→	Lomandra	///
Hakea lissodaphne ✓	✓							Lepidosperma tenui (terete)	✓		
Baeckha camphoresmae ✓	✓			Neuzhaia alopecuroides ✓	✓			Tetradlea octandra	✓		///
Phyllanthus calycinus ✓	✓			HERBS				(Sedge - long leaves)			
Chamaecris sericea ✓	✓			Drosera erythrorhiza? - red-leaved	///			(lumpy base)			
Greullex bipinnatifida ✓	✓			Lagotis linearis	✓						
Stylidium sanguinalis ✓	✓			Hymenocallis sp.			///	• Tuberosa arthrodactyla? → Orchid?			
Nelumbo? scabra ✓	✓			Daucus glaucidiotus ✓	✓		///	↳ check sp.			
Hakea cristata ✓	✓			Stella Levenhookia			///	red bark leaves			
				(big basal rosette)				↳ 2 white tubers → replacement tubers!			
Acacia pulchella				• small silver-leaved				Oxalis sp.			
Xanthorrhoea sp. (andria?) ✓	✓			Asteraceae (Nebbia)				Lomandra			
Hibbertia communis ✓	✓			Hypochaeris glabra ✓	✓			(sterile)			
				Ptilothus rengelesii ✓	✓			↳ narrow			
				Romulea rosea ✓	✓			(flat leaf)			

collected.

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 JFNP01

Record on Sheet

Date 10.9.96

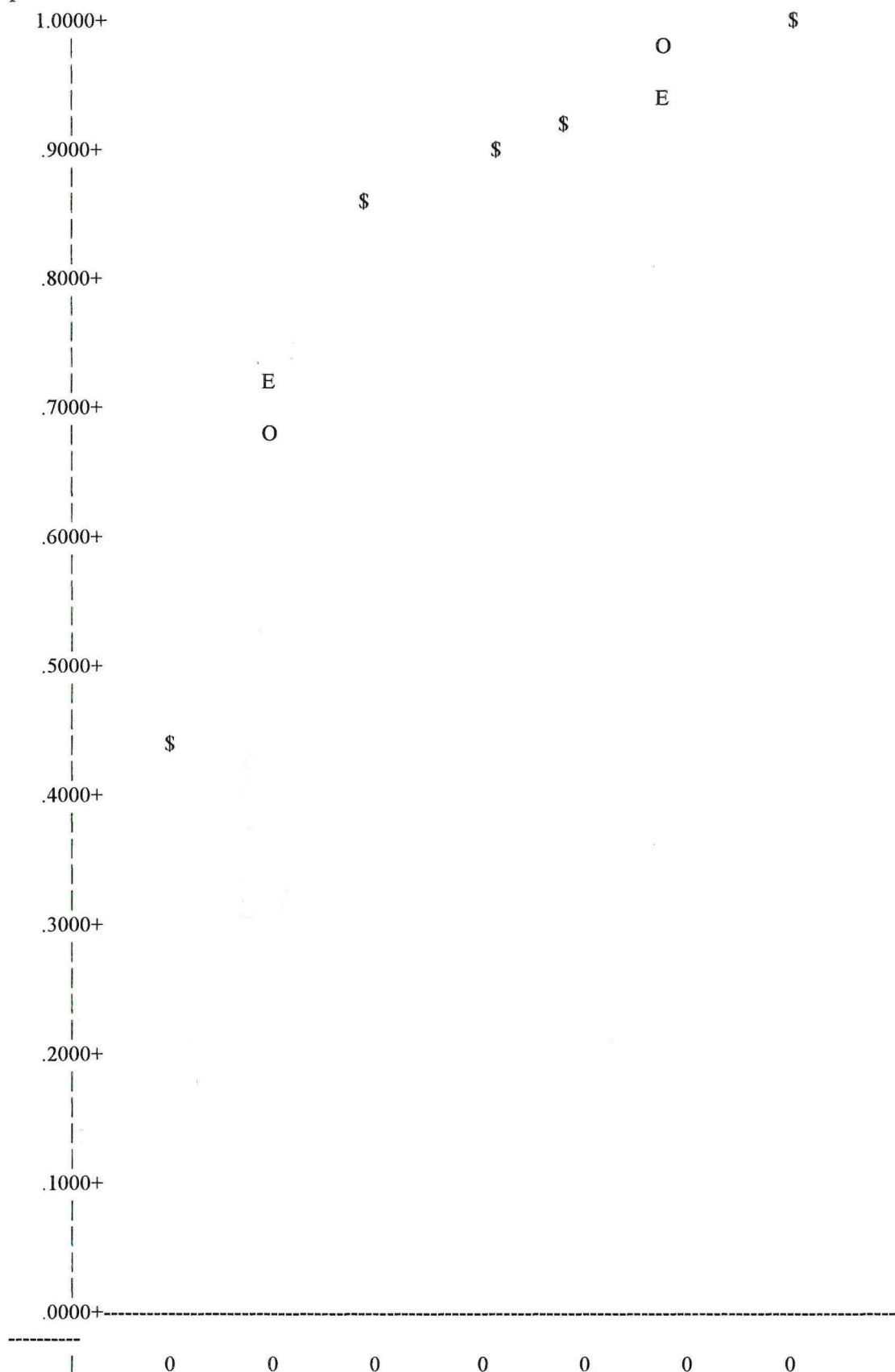
det's 5.12.96(R)

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. wandoo	✓		YR	Laxmannia squarrosa	✓	✓	✓	Trachymene pilosa	✓	✓	YR
Euc. calophylla	✓		R	Homaloxylum homalocarpum	✓		✓	Bartsia trixago	✓	✓	R
				Oxalis perennans	✓	✓	✓	Trifolium ligusticum	✓	✓	YR
				Centropogon aristata			✓	Xanthoxia canotida	✓	✓	YR
Xanth. preissii	✓		YR				R	Stylidium burtonianum	✓	✓	R
Hippocrepia angustifolium	✓		YR	Levenhookia stipitata	✓		R	Hyalosperma cotula	✓	✓	R
Hibbertia frutescens	✓		YR	Trifolium subterraneum	✓	✓	✓	Hydrocotyle callicarpa	✓	✓	YR
Jacksonia verticillata	✓	✓	YR	Drosera Menziesii	✓			Conostylis setigera	✓	✓	R
Daviesia horrida	✓	✓	R	GRASSES				Haemodorum sp. strapleaf	✓		YR
Hakea undulata	✓	✓	R	Brija maxima	✓	✓	YR	Cassytha glabella	✓	✓	YR
Dry. Linde. Linde.	✓		YR	Brija minor	✓	✓	R	Petersonia crassifolia	✓	✓	R
Hakea lasiocarpa	✓		YR	Vulpia bromoides	✓	✓	R	Daucus glochidiatus	✓	✓	YR
Baeckea camphorata	✓		YR	Danthonia setacea	✓	✓	R	Chamaecilla composita	✓		YR
Phyllanthus calycinus	✓		YR	Pira camophyllea	✓	✓	R	Dampiera alata	✓	✓	YR
Isopogon asper	✓		YR	Neurachne alopecuroides	✓		YR	Lagenifera lunegelinii	✓		YR
Grevillea bipinnatifida	✓	✓	YR					Mitella sp. sterile	✓		YR
Melaleuca aff. scabra	✓	✓	YR					Hypochaeris glabra	✓		YR
Hakea aristata	✓		YR					Phyllotus manglii	✓		YR
Acacia pulchella pulchella	✓	✓	YR	HERBS				Ranunculus rosea	✓		YR
Hibbertia commutata	✓		YR	Thelymitra crinita (label)	✓		YR	Anagallis arvensis	✓		YR
Gompholobium marginatum	✓		YR	Conocarpus cordiger	✓	✓	YR	Burchardia longista	✓		YR
(sp.) Petersonia pygmaea	✓		YR	Chamaeceros secura (label JFNP02 10.9.96)	✓	✓	YR	Hypoxis occidentalis	✓	✓	
Jacksonia undulata	✓	✓	YR	Drosera bulbosa (red-leaved, v. variegata)	✓	✓	YR	Parentucellia latifolia	✓	✓	
	✓			Stylidium pycnostachyum	✓	✓	YR	SEDGES			
				Centaurium euthyria	✓	✓	R	Tetraria octandra	✓	✓	YR
Lomandra sp. indet (sterile)	✓	✓	✓	Stylidium caricatum	✓	✓	R	Schoenus granatophyllus	✓	✓	R
NE Siloxerus multiflorus	✓		YR	Ursinia anthemoides	✓	✓					
label parties!				Opercularia vaginatum	✓	✓	R				
				Centropogon aristata	✓	✓	R				
				Wahlenbergia preissii	✓	✓	✓				
				Lotus angustissimus	✓	✓	R				
				Levenhookia pusilla	✓	✓	YR				

K-S CRITERION = .514 SUPREMUM = .045 WITH SIGNIFICANCE = NS AND
PARAMETER(S) = B0 POWER .5125 6.000

1



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 *JFNP 1*

Record on Sheet

Date *5.17.96*

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				<i>Leventhorcia axillz</i>	//			<i>E. calophylla</i>			//
				<i>Medicago/ trifolium</i>	//			<i>Jacquinia / verticillata</i>			//
				<i>Acacia pulchella</i>	//			<i>Danthonia sp</i>			//
				(seedling)				<i>Briza minor</i>			//
				<i>Centropogon aristatus</i>	///			<i>Haked undulata seedling</i>			//
MALLEES				<i>Hydrocotyle</i>	//			<i>White scrop</i>			//
								<i>Pilea canophylla</i>			//
				GRASSES				<i>op-leaved herb</i>			///
				<i>Heliotropium coriolo</i>	//			<i>Gonocarpus cordiger</i>			
				<i>Hypochaeris glabra</i>	//			<i>(raspiedia sp) (NF)</i>			!
SHRUBS				<i>Davosia sp</i>	//			<i>Styl. pycnostachya</i>			
				<i>spinous</i>	//			SEDGES			
				<i>Tradescantia pilosa</i>	//			<i>ADS (paleosonia pinnata)</i>			
				<i>Cassipoua sp</i>	//			<i>Vulpia sp. annual grass</i>			//
								<i>Opuntia</i>			///
				HERBS				<i>Stylidium? calcaratum</i>			///
				<i>Large Daucus sp</i>				<i>Stylidium brunneum</i>			///
				<i>Drosera Menziesii</i>				<i>Small black-bore Schoenus</i>			//
				<i>Pteris caudata</i>				<i>hairy-fringed leaf sedge, Lomandra?</i>			//
				<i>occidentalis</i>				<i>Conostylis sericea/serosa</i>			//
								<i>? White small pea - ?</i>			
								<i>lotus. ?</i>			
								<i>Pink Leventhorcia</i>			

transferred to JFN/POI sheets

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

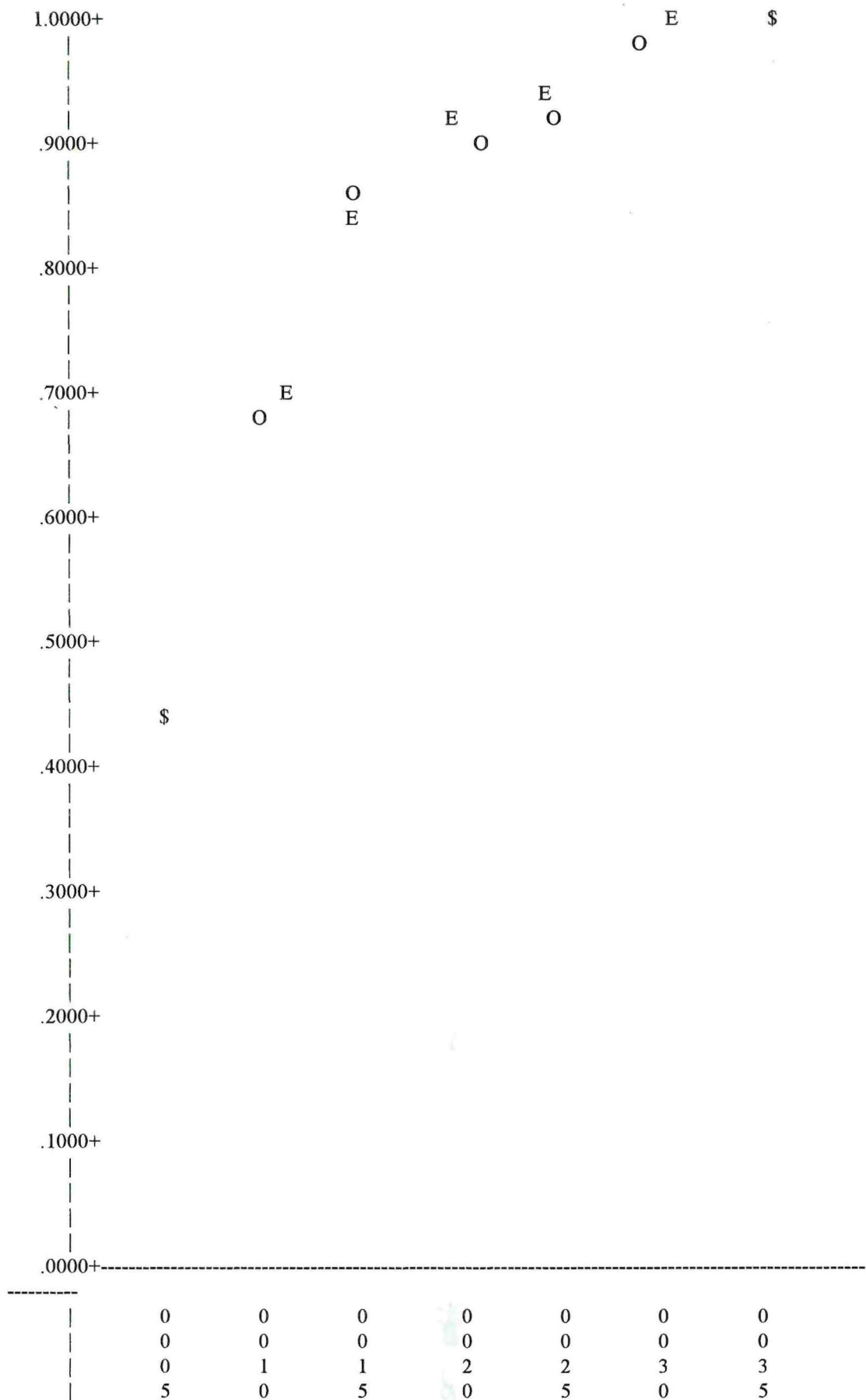
5. SPECIES PRESCENCE Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

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

dels

[illegible]



INCLUSIVE UPPER CLASS LIMITS, INTEGERIZED
 DISTANCES ARE X DRYANDRA NUMBATS NOVEMBER 1992 OMITTING RUN 6

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA JFNP - near Thrassie Road SITE NUMBER JFNP 02

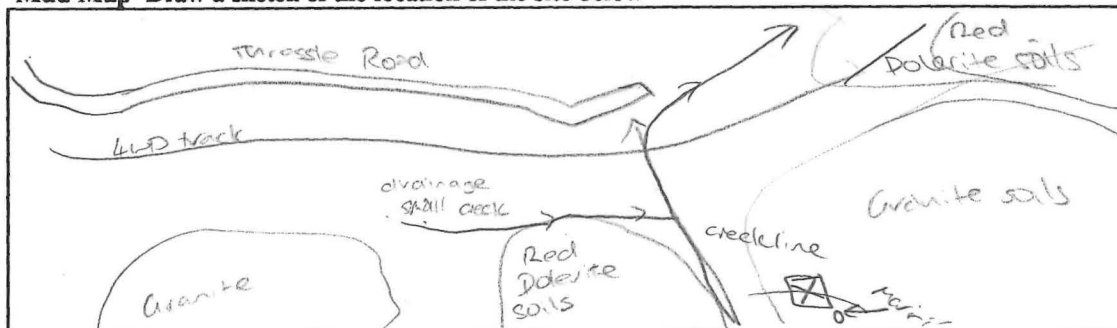
DATE TRIP 13/9/96 RECORDERS AM & ML

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



in blackberry thicket on east side of creek

Road Location

Geographic Location Latitude 31 53 29.3 S Longitude 116 04 06.1 E Altitude 110m
GPS ☒ Accuracy HDOP 2.3
Map Sheet MUNDARING

Photograph Name Number 1 (Rock 2)

Topographic Position (Circle the correct response)
Upland ☐ Lower slope ☒
Upper slope ☐ Valley ☒
Midslope ☐ Washline ☐
little gully between 2 creeks
50m up from creek line

2. SITE DATA Circle the correct response

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

Surface Soil clay Depth to Rock 1m Colour Red

Exposed Rock type Dolerite % surface cover 20 size range 2-35cm

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

Bare Ground 30 % surface cover

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 (%)		10-30	2-10%		
DOMINANT SPECIES		<i>E. calophylla</i>	<i>E. calophylla</i>		
		<i>E. wando</i>			

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		30-70%	more category		30-70
DOMINANT SPECIES	<i>X. praeisii</i>	<i>X. praeisii</i>		<i>X. praeisii</i>	<i>dry. niveda</i>
	<i>M. reidii</i>	<i>M. reidii</i>		<i>A. lissocarpa</i>	<i>Acacia pulchella</i>
				<i>C. quadrifidus</i>	<i>Davallia laurifolia</i>
					<i>Hibb. laurifolia</i>

GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10-30			
DOMINANT SPECIES		<i>Oxysuccus</i>			
		<i>Aragallis arvensis</i>			
		<i>Loro. flexuos</i>			
		<i>Chelidanthus</i>			

4. VEGETATION CONDITION

Comments

3 1/2

code = 3

Weedy + freq burnt

No x. gracilis

%bare = 8%

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 JFND 02

Record on Sheet

Date 13/9/96

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
E. calophylla ✓				Xanthosia cordata ✓		///		Danthonia (?) grass			///
E. wandoo ✓				Daucus glaucidiata ✓		///		Isodopsis - marginata			///
				Lagerophora hugelii				Cortium seedlings			///
				Stylidium sp. (small gray rose)		///		Melotia			///
				Haemodorum step-leaf				- Mesopteryx? no			
MALLEES				Stylidium bulbiferum		///		Diosid egyptioides			
				GRASSES				Regeneration leafy stem? .?			
				Neurochloa alopecuroides ✓							
SHRUBS				Aragalis arvensis ✓							
X. proisii ✓				Burchardia umbellata ✓							
Calothymus quad. ✓				Orthrosanthus laxifolia (?) ✓				SEDGES			
Dry nivea ✓				Loranthus flexuosa ✓		///		Lepidosperma?			
Daviesia horrida ✓				Briza maxima ✓		///		- Tellarnea capillaris?			
Aca. pulchella ✓				Hypochaeris glabra ✓		///		(NO fruit)			
Hakea lissocarpa ✓				HERBS							
Hypo. angustifolium ✓				Chelidonium anthelminticum ✓		///					
Hibb. hypericoides ✓				Senecio sp.							
Macbratnia repens ✓				→ No flower		///					
Soft-leaved Mt. Heisteria - not flower				Sonchus oleraceus		///					
Hibb. commutata			///	- And grass → Stipa?			?				
Tram. floribundum ✓			///	Rumex rosea							
Nemica - sp. 2.			///	Dioscorea hamatifolia							
Diplopeltis (pink petiole) ✓			///	Tradescantia pilosa		///					
Camp. marginata ✓			///	Oxalis sp. (stolon)		///					
Epacrid - no flowers			///	Harallia harallia		///					
Thunbergia foliosa ✓			///	Mid grass sp. (narrow leaves)			?				
				Puffballus volutans							

Diplopeltis.

* 'tue' JFNP02

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 JFNP02A

Record on Sheet

Date 13.9.96

+ JFNP02(1.12.96)

date 1.12.96

• Column 1 plant name

• Column 2 plant number

• Column 3 flowering time- TICK if species flowering

• Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Euc. calophylla</i>	✓	—	✓					<i>Sonchus oleraceus</i>	✓	✓	✓
<i>Euc. wandoo</i>	✓	—	✓					<i>Mitella tenuifolia tenuifolia</i>	✓	✓	✓
								ADS: <i>Oxalis glabra</i>	✓	✓	✓
<i>Xanthorrhoea preissii</i>	✓	—	✓	<i>Isotoma hypocrateris</i> ^{occidentalis?}	✓	✓	✓	<i>Paranthes?</i>	✓	✓	✓
<i>Calothamnus quadrifidus</i>	✓	—	✓					<i>Oxalis perennans</i>	✓	✓	✓
<i>Dry. Lindleyana</i> <i>Lindleyana</i>	✓	—	✓					<i>Boraginaceae</i>	✓	✓	✓
<i>Hibbertia hypericoides</i>	✓	—	✓					<i>Tricornis elatior</i>	✓	✓	✓
<i>Davea harida</i>	✓	—	✓					<i>Centaurium erythraea</i>	✓	✓	✓
<i>Acacia pulchella</i>	✓	—	✓	GRASSES				<i>Stachys monogyna</i>	✓	✓	✓
<i>Macrozamia riedlii</i>	✓	—	✓	<i>Danthonia</i> sp	✓	✓	✓	<i>Stylidium affine</i>	✓	✓	✓
<i>Halimolobos viscaria</i>	✓	—	✓	<i>Neuvache aloepecuroides</i>	✓	✓	✓	<i>Agrostis scabra</i>	✓	✓	✓
<i>Hypocalymma angustifolium</i>	✓	—	✓	<i>Brya maxima</i>	✓	✓	✓	<i>Hypochaeris glabra</i>	✓	✓	✓
<i>Isotria medeoloides</i>	✓	—	✓	<i>Aster campophyllus</i>	✓	✓	✓	<i>Haemodorum</i> sp. strap leaf	✓	✓	✓
<i>Gompholobium marginatum</i>	✓	—	✓					<i>Anagallis arvensis</i>	✓	✓	✓
<i>Nemcia spathulata</i> (sterile)	✓	—	✓					<i>Burchardia congesta</i>	✓	✓	✓
<i>Diplopeltis huegelii</i> var <i>lehmannii</i>	✓	—	✓					<i>Drosera erythrorhiza</i>	✓	✓	✓
<i>Thomasia foliosa</i>	✓	—	✓					<i>Romulea rosea</i>	✓	✓	✓
<i>Hemigenia mona</i> (sterile)	✓	—	✓	HERBS				<i>Dioscorea hastifolia</i>	✓	✓	✓
<i>Hibbertia commutata</i>	✓	—	✓	<i>Opuntia vaginata</i>	✓	✓	✓	<i>Stylidium lispidum</i>	✓	✓	✓
<i>Leucopogon pulchellus</i>	✓	—	✓	<i>Stylidium byrrionianum</i> ^{marginatum}	✓	✓	✓	<i>Lomandra</i> sp - narrow leaves	✓	✓	✓
<i>Tynantrum ledibium</i> var <i>rossii</i>	✓	—	✓	<i>Stylidium bulbiferum</i> (sterile)?	✓	✓	✓				
<i>Tynantrum floribundum</i>	✓	—	✓	<i>Cheilanthes austrotenuifolia</i>	✓	✓	✓				
<i>Phyllanthus calycinus</i>	✓	—	✓	<i>Xanthosia candida</i>	✓	✓	✓				
<i>Grevillea ptilifera</i>	✓	—	✓	<i>Trachymene pilosa</i>	✓	✓	✓				
				<i>Orthocentrus laxus</i>	✓	✓	✓				
				ADS: <i>Stypana glauca</i>	✓	✓	✓	SEDGES			
				<i>Daucus glaberrimus</i>	✓	✓	✓	<i>Desmodium aspera</i>	✓	✓	✓
				<i>Homa homallosciadium</i>	✓	✓	✓	<i>NE: <i>Isotria medeoloides</i></i>	✓	✓	✓
				<i>Hydrocotyle calycarpa</i>	✓	✓	✓	<i>Tetraria capillaris</i>	✓	✓	✓
				<i>Linum trigynum</i>	✓	✓	✓				
				<i>Senecio dioschideus</i>	✓	✓	✓				

VINES(R) Network Print

Serial No: 111050

Version: 02.

Login Name: JetXUser@WOOD.SID@CALM

Error: Connection to VINES network has been lost.
This unit will try to log into the network at one minute
intervals.

Reg. fire

COND = 2 1/2!

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 JFNP 2
Date 1/12/96
Rescore

Record on Sheet

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

COND 2 1/2 - 3

Heavy rabbit grazing

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				<i>Tricoryne elatior</i>	1/			<i>Hemigenia - incana? sericea?</i>	1/		
				<i>Grevillea pilulifera??</i>	1/			<i>Diplazis hugoii</i>	1/		
								<i>Stylidium piliferum</i>	1/		
								<i>Aiza caryophyllae</i>			
								Annual grasses	1/		
MALLEES								Pink Annual herb opp leaves	1/		
								<i>Donard sp</i>	1/		
				GRASSES				<i>Stylidium narrow (base)</i>			
								<i>Linear - yellow herb</i>	1/		
								Compact small grass	1/		
SHRUBS								<i>Biza maxima</i>	1/		
								<i>Danthonia sp</i>	1/		
								SEDGES			
								<i>Sonchus - odoratus</i>	1/		
								<i>Urtica grass</i>			
								<i>Styl. brunonianum</i>	1/		
								<i>Hypochaeris glabra</i>	1/		
				HERBS				<i>Triptococcus? (NF)</i>	1/		
				<i>Stachys rose</i>				<i>Senecio sp</i>	1/		
								<i>Trymd. floribundum</i>	1/		
								<i>Agr. scabrum</i>	1/		
								<i>Dobeliz sp white?</i>	1/		
								<i>Grevillea pilulifera</i>	1/		
								<i>Lagotis hugoii</i>	1/		
								<i>Tetraria capillaris</i>	1/		
								<i>Thy Trachymene pilosa</i>	1/		
								<i>Stylidium affine</i>	1/		
								<i>Dioscorea hastifolia</i>	1/		

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA JFND Throssle Rd site SITE NUMBER JFNP03

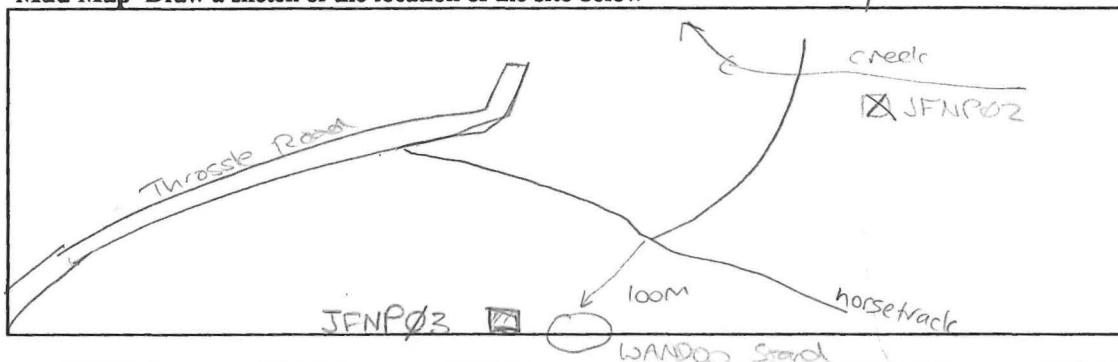
DATE TRIP 13.9.96 RECORDERS _____

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 53 42.0 S Longitude 116 04 03.6 E Altitude 160m
GPS ☒ Accuracy PDOP 3.0
Map Sheet MUNDARING

Photograph Name Number low # 2 (2)

Topographic Position (Circle the correct response)
Upland _____ Lower slope _____
Upper slope 3 Valley _____
Midslope 3 Washline _____

2. SITE DATA Circle the correct response

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

Surface Soil clayey grit Depth to Rock 0-10 Colour 4 yel-white

Exposed Rock type Dolerite % surface cover 20 size range 3-15cm

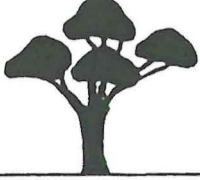
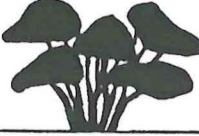
Litter quartz (granite) % surface cover 20 Depth (cm) 0-5cm

Bare Ground 20 % surface cover

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Mulr)- 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					
	over 15m	5-15m	under 5m	MALLEES	
				over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)		2-10%	30-70%	30-70%	30-70%
DOMINANT SPECIES		<i>X. acanthostachys</i>	<i>H. erindcea</i> <i>C. quadrifida</i> <i>P. biloba</i>	<i>D. armata</i> <i>Hypo. angust.</i> <i>Halca. incassata</i>	<i>M. scabra(?)</i> <i>L. pulcherrima</i>
GRASSES					
	HERBS		SEDGES		under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10%				
DOMINANT SPECIES	<i>Chromola. corymbosa</i> <i>Borja. sphaerophylla</i> <i>Caprosaphra?</i> <i>Stirlingia sp.</i>				

4. VEGETATION CONDITION

Comments

4 1/2 • Note the presence of death of
D. armata, *Petrophile biloba*, *H. erindcea*
(drought?)

i.s.

Note: Unid. Epacrid in JFNPP2 is Leucopogon. Puckettinus

specimens

Bag mislabelled!

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 JFNPP2

Record on Sheet

Date 13/9/96

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

- *Stirlingia simplex*?
- *Conospermum* sp (huegii?)

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				• <i>Chromolaena coccinea</i> ✓			II	• <i>Neurochro alopecuroides</i> ✓			III
				<i>Stachys</i> sp.				• <i>Cassipouia</i> sp. (large glob fruit) ✓			III
				• <i>Stemodia hamatula</i> ✓			II	• <i>Laxmannia sessiliflora</i> ?			III
				• <i>Banksia phaeophylla</i> ✓			II	• <i>Gomph. marginatum</i> ✓			III
				• <i>Typterococcus</i> sp. ✓			II	• <i>Trachymene pilosa</i>			III
				• <i>Gladinas</i> sp. ✓				• <i>Leptochloa</i> sp.			III
MALLEES				• <i>Baeckea cymbarosa</i> ✓				• <i>Centropus arista</i>			III
				• <i>Tetradlea acutata</i> ✓				• <i>Centropus</i> sp.?			III
				GRASSES				• <i>Laxmannia</i> sp.			III
				• <i>Calandria</i> sp (Sage) ✓				• <i>Stylidium coccineum</i> ?			III
				• <i>Synaphea petiolaris</i> (hirsute) ✓				• <i>Stylidium</i> sp??			III
				• <i>Stylidium</i> sp??				(large-leaved bulbiferum)			III
SHRUBS								• <i>Utricularia</i> sp.			III
• <i>Xanthorrhoea</i> ✓								SEDGES			
• <i>Hibb. hypericoides</i> ✓								• <i>Lepidosperma</i> sp. (large)			
• <i>Halimolobos</i> ✓								(looks like <i>angustatum</i> ?)			
• <i>Calothamnus quadrifidus</i> ✓								• <i>L. angustatum</i> (?-normal)			
• <i>Malaleuca seabrai</i> ✓			III	• <i>Stylidium</i> sp 2 (Gregg leaves)			II	• <i>Lepidosperma tenuis</i> ?			
• <i>Acacia pulchella</i> ✓				(as before)				(rough)			
• <i>Petrophile biddiana</i> ✓				HERBS				• <i>Burchardia congesta</i>			
• <i>Leucopogon pulcherrimus</i> ✓				• <i>Leucopogon pulcherrimus</i> ✓			III	• <i>Prionitis</i> sp. (leafy)			
• <i>Conostylis setigera</i> ✓			II	• <i>Drosera pinguicula</i> (many leaves)				• <i>Phyllanthus</i> sp.			
• <i>Halimolobos</i> ✓			II	(glabrous)				(pink, small, arched)			
• <i>H. truncatella</i> ✓				(not 3-merous)				• <i>Pygmy dioscorea</i>			II
• <i>Dry. aurata</i> ✓				• <i>Drosera</i> sp (pink climber)				• <i>Isoplepis marginatum</i>			II
• <i>Hyp. angust.</i> ✓				• <i>Cryptandra</i> sp				• <i>Waikia</i> sp			III
• <i>Tympanum ledifolium</i> ✓			II	• <i>Drosera</i> sp (large)				• <i>Hydrocotyle</i> sp			
• <i>Leptocarpus</i>				• <i>Homalo horallo</i> ✓				• <i>Sonchus</i> <i>bonaria</i> 1000			
• <i>Quercus pulchella</i> ✓				• <i>Stylidium bulbiferum</i> (propag.) ✓				• <i>Hamodorum</i> - trap leaf			II
• <i>Xanthosia candida</i> ?				(small)				• <i>Sonchus oleraceus</i>			
• <i>Stylidium</i> sp.				• <i>Hibb. subvaginata</i> ✓				• climbing <i>Thysanotus</i> sp			
• <i>Stirlingia</i> sp.				• <i>Hypochaeris glabra</i> ✓				• <i>Calceolaria huegii</i>			
• <i>Androsace cunninghamii</i> ✓				• <i>Synedra</i> sp?? (glabrous black bases)				Veri.			
(purple)				collected.							

WAIT FOR GRASSES

• *Calceolaria huegii*

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

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

SITE No JFNP03

Record on Sheet

Date 1.12.96 (R)

13.9.96

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Hakea trifurcata			✓	Homalloscidium homallocarpum	✓		✓	Xanthosia huegelii	✓	✓	R
Xanthorrhoea acanthostachya			✓	Ursinia anthemoides	✓		✓	Conostylis setigera	✓	✓	✓
Hibbertia hypericoides	✓		✓	Eriochilus sp. sterile	✓		✓	Stylidium calcaratum	✓		✓
Hakea erinacea	✓		✓	Elythraea (pink enamel) thunbergii	✓		✓	Actinotus leucotrophus	✓		R
Calothamnus quadrifidus	✓		✓	Hydrocotyle callitricarpa	✓		✓	Isobona hypocrateriformis	✓		R
Acacia pulchella	✓		✓	Romulea rosea	✓		✓	Bonyia sphaerocephala	✓	✓	✓
Petrophile biloba	✓		✓	Sonchus oleraceus	✓		✓	Laxmannia squarrosa	✓	✓	✓
Leucophaea pulchellus	✓		✓	Thysanotus mangleianus	✓		✓	Gonocarpus cordiger	✓	✓	R
Stemodia acutifolia	✓	✓	✓	GRASSES				Opephalia variegata	✓		R
Verticordia huegelii (huegelii?)	✓	✓	✓	Danthania setacea	✓		R	Crocodaria caerulea	✓	✓	R
Melaleuca aff. scabra	✓	✓	✓	Stipa pycnostachya	✓		R	Lomandra suavis	✓		R
Trymelium latifolium var.	✓	✓	✓	Neurachne alpecurioides	✓		✓	Cassutha paniculata	✓	✓	✓
Hakea undulata	✓		✓	Biza minor	✓		R	Siloxerus multiflorus	✓		✓
Hakea incrassata	✓		✓	Brachypodium distachyon	✓		R	Haemodorum sp. sterile	✓		✓
Dryandra amata	✓		✓	Pentastyles aibrides	✓		R	Tripterococcus brachyotus	✓		✓
Hypocalymma angustifolium	✓		✓	Stipa complexa	✓		R	Gladious canyophyllaea	✓		✓
Grevillea pilulifera	✓		✓					Caladenia sp. sterile/indet	✓		✓
Stirlingia simplex	✓	✓	✓	HERBS				Stylidium large-leaf bulbiferum?	✓		✓
Andersonia palmiana	✓	✓	✓	Chamaecilla composita	✓	✓	✓	Drosera menziesii	✓		✓
Baeckea camphorosmea	✓		✓	Stylidium repens	✓	✓	R	Drosera sp. (climber, pink)	✓		✓
Cryptandra nutans	✓	✓	✓	Pterochaeta paniculatum	✓	✓	✓	Drosera sp. large	✓		✓
Hibbertia subacutatum	✓		✓	Centrolepis aristata	✓	✓	✓	Hypochaeris glabra	✓		✓
Gompholobium marginatum	✓		✓	Siloxerus humifusus	✓	✓	R	Burchardia longata	✓		✓
Platysace sp. sterile	✓		✓	Drosera pycnoblatta	✓	✓	✓	SEDGES			
Hakea lissocarpa	✓		R	Tradymene pilosa	✓	✓	✓	Tetraria octandra	✓		✓
Conospermum huegelii	✓	✓	✓	Levenhookia stipitata	✓		R	Schoenus grammophyllus	✓		✓
ADS: Gompholobium marginatum	✓	✓	✓	L. pusilla	✓		✓	Schoenus nenus	✓		✓
Stylidium petidare	✓	✓	✓	Wahlenbergia preissii	✓		R	Drosera pallida	✓		✓
Laxmannia sessiliflora	✓	✓	✓	Stylidium bulbiferum (small)	✓	✓	✓	Centrolepis dummondiana	✓		✓
Schoenus brachyotus	✓	✓	✓	S. humanum	✓	✓	✓	ADS: Stipa glauca	✓		✓
				Xanthosia candida	✓		✓	Centrolepis inconspicuous	✓		✓

-indet!
-S. dictio

2ssp. Laxmannia.

added to JFNP02 13.9.96 = JFNP03. 8

ADS: Isotria medeoloides ✓

meaning respectively a Eucalypt-dominated medium community or forest, and an Acacia-dominated low open and. The floristic letter stands for a genus. It the species of the genus by the addition of subscript see list below of species designated in mapping).

ification formulae for the Ajana map are as follows. column appear on the vegetation map. They are ng columns with the parallel world systems of eau (1951).

J-Webb ila rd & Webb 1974)	Küchler Formula (Küchler 1949)	Dannereau formula (Dannereau 1951)
aLc	Ble	Tleaxc
eLi	Bli	Tleaxi
eMr.aSi	Bmr.si	Tmeaxp.Fteaxi
aSc	Bsc	Fmejaxc
aSi	Bsi	Fteaxi
aSr	Bsr	Fteaxb
xSzc	Bszc	Fteaxi.Fmeaxc
xZc	Bzc	Fleaxnc
kCi	Bzik, Oik	Fljaki

cies designated in mapping

us

ex Benth. (Mulga)

tuell.

zq. (Bowgada)

rs (Snakewood)

Muell.

'innieritchie)

(Jam)

I. ex Benth. (Sandplain wattle)

Benth.

h.

is

Miq. (Sheoak)

(York gum)

group

qk.

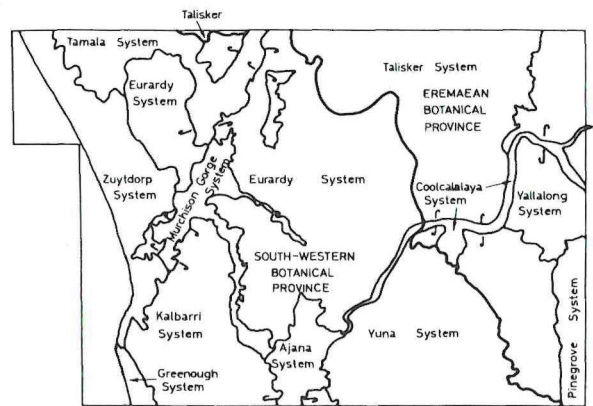


FIG. 3 Vegetation systems

VEGETATION SYSTEMS

A vegetation system consists of a particular series of plant communities recurring in a catenary sequence of mosaic pattern linked to topographic, pedological and/or geological features (Heard 1969). A vegetation system is a subdivision of a botanical district, as the latter is of a botanical province. Twelve systems can be recognised in the Ajana district as listed below and shown also in Fig. 3. The following list shows their position in topographic units and in botanical districts and provinces.

The botanical districts and provinces are in the sense of Diels (1906), Gardner and Bennetts (1956). Vegetation mapping for the first time affords precise boundaries for them. In his account of the vegetation of the district Speck (1958) also followed a vegetation system approach but as his work is much less detailed, recognising only three systems in the district, and was not based on aerial photography, it has not been possible to take up his classification.

5. SPECIES PRESCENCE

SITE No JFNP03

Date 1.12.96

Rescoto

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

Operculization in IFN β

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				Stylidium nemorosum	///			Stirlingia simplex	///		
				Drosera sp. (Lute)	///			Stylidium truncatum	///		
				Actinotus	///			Stipa sp. (elegantissima?)	///		
				Check T. ym. Edifolia				Podothera	///		
MALLEES				A. pilulifera?				Pentstemon (sterile)			
				GRASSES				Xanthoxylum humilissimum	///		
								Lewyodendron (pink)	-	///	
								Danthonia sp.	///		
								Gonocarpus cordiger	///		
								H. erinacea	///		
								H. lissocarpa	///		
SHRUBS				A. pilulifera				Opeulzia sp.	///		
				V. Verticordia hugolinii	///			SEDGES			
				(not Calceolaria!) OCV				Jep. angustatum / gracillimum			
				HERBS				Tetralix // Jep. tenax?			
								Chaenactis sp.	///		
								Tel. octandrum	///		
								Leucandra sp. blue	///		
								Centropogon aristata	///		
								Styl. calcitrans	///		
								Trachypogon pilosus	///		
								Waitzia paniculatum	///		
								Newboldia albapecunoides	///		
								Coodenia caerulea	///		
								Blue			
								Leucodendron prostratum	///		
								H. incrassata	///		
								Annual grass - small	///		
								Blue-fl. herb			

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA JFNP - Park Boundary SITE NUMBER JFNP04

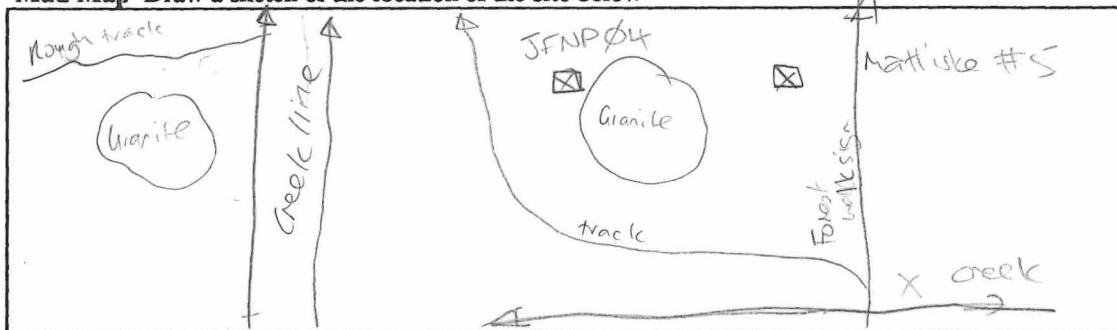
DATE TRIP 3/9/96 RECORDERS AM & ML

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 track south & parallel to old boundary line (E-W)

Geographic Location Latitude 31 52 T7.3 S Longitude 116 04 15.4 E Altitude 100m
GPS ☒ Accuracy HDOP 1.3
Map Sheet MUNDARING

Photograph Name _____ Number 3 Roll 2

Topographic Position (Circle the correct response)
Upland _____ Lower slope _____
Upper slope X Valley _____
Midslope _____ Washline _____

2. SITE DATA Circle the correct response

Slope flat gentle steep 25 Aspect N NE E (SE) S SW W NW 4

Surface Soil clayey clay Depth to Rock 0-50cm Colour red-white

Exposed Rock type granite % surface cover 20-40 size range 1cm - 3m

Litter 15 % surface cover 15 Depth (cm) 2-5cm

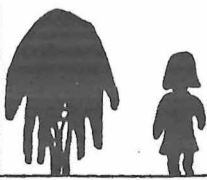
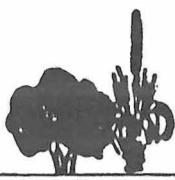
Bare Ground 40 % surface cover)

Granite outcrop & associated heath & weed invasion

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

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					
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)			30-70% <i>H. multiflora</i>	70-30%	10-30%
DOMINANT SPECIES			<i>C. fraxinifolia</i> <i>X. preissii</i> <i>H. erinacea</i>	<i>Tigmalium</i> <i>Ud. Blum</i> <i>A. pulchella</i>	<i>Dry-nivena</i> <i>Synaphoe pediculus</i> <i>Hemigeria</i> sp
GRASSES					
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		30-70%			
DOMINANT SPECIES		<i>Anthropodium</i> sp. <i>Chelidonium</i> <i>Urtica anthracoides</i>			

Anthropodium sp.

4. VEGETATION CONDITION

Comments

* Large extent of weed invasion on foothills of scarp facing the foothills suburbs. *Walsbyia* & *Freisia*.

* 3 - 4 weed invasion on open granites on rich red soils (dolomite) influence.

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 JFNP04

Record on Sheet

Date 13.9.96

det 5.12.96(R)

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

TREES	SHRUBS	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Hakea aruacea</i>	✓	—	✓	R	<i>Drosera heterophylla</i>	✓	✓	✓	<i>Calisia micrantha</i>	✓	✓	✓
<i>Xanthorrhoea preissii</i>	✓	—	✓	R	<i>Praemophilum gracile</i>	✓	✓	✓	<i>Gardenia fascicularis</i>	✓	✓	✓
<i>Tr. pedunculatum</i> rosm.	✓	—	✓	R	<i>Haemodorum discolor</i>	✓	✓	R	<i>Romulea rosea</i>	✓	✓	✓
<i>Acacia pulchella</i>	✓	—	✓	R	<i>Stylidium dichotomus</i>	✓	✓	✓	<i>Brachycome ibridifolia</i>	✓	✓	✓
<i>Dy. lindleyi</i> lindleyi	✓	—	✓	R	<i>Xanthosia candida</i>	✓	✓	✓	<i>Hyalobrotyle calicarpa</i>	✓	✓	✓
<i>Hakea trifurcata</i>	✓	—	✓	R	<i>Drosera - pycnantha</i> sp.	✓	—	✓	<i>O. Siloxenus multiflorus</i>	✓	✓	✓
<i>Hilobaria - lampericoides</i>	✓	—	✓	R	<i>Hypochaeris glabra</i>	✓	—	✓	<i>Stylidium petiolare</i>	✓	✓	✓
<i>Hibo. subvaginata</i>	✓	—	✓	R	GRASSES				<i>Podolepis lessonii</i>	✓	✓	✓
					<i>Bipa maxima</i>	✓	✓	✓	<i>Thysanotus mangabeii</i> pat. ?	✓	✓	✓
<i>Nemcia spatulata</i>	✓	✓	✓	✓	<i>Bipa gestetto</i> minor? - minor	✓	✓	R	<i>Cheilanthes austrotenuifolia</i>	✓	✓	✓
					<i>Vulpia myuros</i>	✓	✓	✓	<i>Tribonanthes longipetala</i>	✓	✓	✓
<i>Calothamnus quadrifidus</i>	✓	✓	✓	✓	<i>Brachypodium distachyon</i>	✓	✓	R	<i>Triglochin centrocarpum</i> ADS	✓	✓	✓
<i>Memigenia incana</i>	✓	✓	✓	✓	<i>Danthonia</i> sp.	✓	✓	R	<i>Hypoxis occidentalis</i>	✓	✓	✓
<i>Ptilotheca cygnorum</i> (IN)	✓	✓	✓	✓	<i>Vulpia bromoides</i> (me)	✓	✓	R	<i>Haemodorum simplex</i>	✓	✓	✓
<i>Darwinia binelioides</i>	✓	✓	✓	✓	<i>Aira canyophylla</i>	✓	✓	✓	ADS: <i>Philycladella pyramica</i>	✓	✓	✓
<i>Diptopeltis huagelii</i>	✓	✓	✓	✓	<i>Avena barbata</i>	✓	✓	R	<i>Freesia aff. leithlinii</i>	✓	✓	✓
<i>Baeckea canphorae</i>	✓	✓	✓	R	<i>Newachne alsepecurioides</i>	✓	—	✓	ADS: <i>Arctostaphylos</i> ADS	✓	✓	✓
<i>Daviesia horrida</i>	✓	✓	✓	✓	HERBS				<i>Echium plantagineum</i>	✓	✓	✓
<i>Pimelea intricata piligera</i>	✓	✓	✓	✓	<i>Pavaneucellia latifolia</i>	✓	✓	✓	<i>Centaurea erythraea</i>	✓	✓	R
					<i>Galium divaricatum</i>	✓	✓	✓	<i>Laxmannia squarrosa</i>	✓	✓	R
<i>Caladenia flava</i>	✓	—	✓	✓	<i>Quinetia urvellii</i>	✓	✓	✓	<i>Gnolacarpus cordiger</i>	✓	✓	✓
<i>Sandus detraceus</i>	✓	—	✓	✓	<i>Ronoloscium homolocarpum</i>	✓	✓	✓	<i>Agrastocarpum scabrum</i>	✓	✓	R
<i>Synaghea</i> sp. - <i>auricula</i> ???	✓	—	✓	✓	<i>Actinotus leucocarpus</i>	✓	✓	✓	<i>Arthropodium capillipes</i>	✓	✓	✓
<i>Bunga sphaerocephala</i>	✓	—	✓	✓	<i>Centrolepis dummondiana</i>	✓	✓	✓	<i>Bartsia trixago</i>	✓	✓	✓
<i>Purchardia congesta</i>	✓	—	✓	✓	<i>Phylloglossum dummondii</i>	✓	✓	✓	<i>Cassia</i> sp.	✓	✓	✓
<i>Levenmodia pusilla</i>	✓	—	✓	✓	<i>Stylidium bulbiferum</i> small	✓	✓	✓	SEDGES			
<i>Drosera erythrorhiza</i>	✓	—	✓	✓	<i>Centrolepis aristata</i>	✓	✓	✓	<i>Dermocladus aspera</i>	✓	✓	✓
<i>Trachypogon pilosa</i>	✓	—	✓	✓	<i>Drosera stolonifera</i>	✓	✓	✓				
<i>Hirsinia antheroides</i>	✓	—	✓	✓	<i>Anagallis arvensis</i>	✓	✓	✓				
<i>Tricornis elatior</i>	✓	—	✓	✓	<i>Tripterococcus pyramis</i>	✓	✓	✓				
					<i>Sonchabaea latifolia</i>	✓	✓	✓				

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No JENP04

Date 13/9/96

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

*Baeclea cantharomae

TREES SHRUBS

Calothamnus quad.

Hakea cinerea

X preissii

Turpinia ledifolium

Acacia pulchella

Cassipouia sp

~~MALLEES~~ Dry. nivea

Didodelphis huegii

Hakea hirtellata

Hemigera incana

Hib. hypericoides

SHRUBS

AN

Xanthosia cordata

Hamodorum sp

(small tree -

leaf)

• Drosera → pugny drosera

Hib. subcylindricum

~~Monarda~~ ~~monarda~~

Stachytarpheta sp.

Tryptococcus

Caesia parviflora

Dryandra nivea

* Freisia sp.

• Darwinia sp.?

(in bud)

• Loxocarya flexuosa

• Urid. resplendens A. lat. Hirtell. fleshy leaves

~5m high

Actinotus • Logane - Oxylidum? Narria?

SHRUBS (cont.)

x unknown dicot →

(epacrid like - woolly)

erect

Podolepis sp

Neurachne alopecuroides

Brachycome sp. (pink)

~~Chrysanthemum~~ ~~glabrum~~

Centropogon aristata

GRASSES

Alopecurus sp (erect)

Prasopachyllum →

Hypoxis

Lomelosia rosea

Centropogon sp 17

Hypochaeris glabra

Podolepis

Ophioglossum

• Aragalus arvensis

HERBS

~~Sonchus~~ Sonchus oleracea

Anthropodium caudatum

Chelidonium sp. austrotenuifolia

Tribonanthes sp

Stylidium pectinatum

Halt. Vulpia grass

Aina sp.

Calandrinia flava

Sonchus oleracea

~~Cynodon~~ ~~spati~~

Syntherisma petiolata

Daviesia horrida

HERBS (cont.)

Drosera sp. (erect)

Shield-shaped lanina

Pogonolopis stricta

Bomarea sphaerocarpa

Burchardia congesta

Quinaria diversis

? Parnassia virgata thick wood

Levenhookia

Briza maxima

Neurachne alopecuroides

• Drosera erythrorhiza

Homalio homalio

Aragalus diversis

SEDGES

(ring:) Bycodorella seipera

Loxocarya flexuosa

Hydrocotyle sp

Trachymene pilosa

Stylidium bulbiferum (small)

Cratium (whorled leaves)

sigl. ring annual

Stylidium bulbiferum

(large)

• Ursina cuthamoides

ADIACENTS

• Triglochin

• Phylladellia

• Briza aphelodes (cymoides)

• Thomasia sp? (white flower)

• Paterson's curse

→ Echinium plantagin

orange petals

yellow flowers

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 JFN P04
Date 5.12.96
Receptor

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	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				Large stylidium?				Arthropodium capillipes			II
				bulbiferum?				Gnaphalium fasciculata			II
				↳ yellow - Styl. dichroanthum.				Agr. scabrum			II
				Baekia conchocoma				Tribrachium sp			II
				Dactyloctenium sp				Nerium oleaceum			II
MALLEES				Avena sp				Biza minor			II
				GRASSES				Scorpius			II
				Sporobolus breviflorus				Annual grass - Vulpia			II
				Laxmannia squarrosa				Centropogon aristata			II
SHRUBS				Davallia horrida				Stylidium			
				Agr. scabrum				Xanthoxylum			II
				Tricoryne elatior				Biza maxima			II
								SEDGES			
								Hornia hornia			II
								Compact grass			II
								Biza maxima			
								Pineia sp.			II
				HERBS				Achinotus sp			II
								Aira caryophyllae			II
								Haemodorum simplex			II
								Arctostaphylos			II
								Darwinia citriodora			
								Haemodorum tall			II
								↳ ? small Darwinia			II
								Tripteronotus brunneus			II
								Small pink wood - opp. leaves			II

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA John Forrest NP near west boundary SITE NUMBER JFNP05

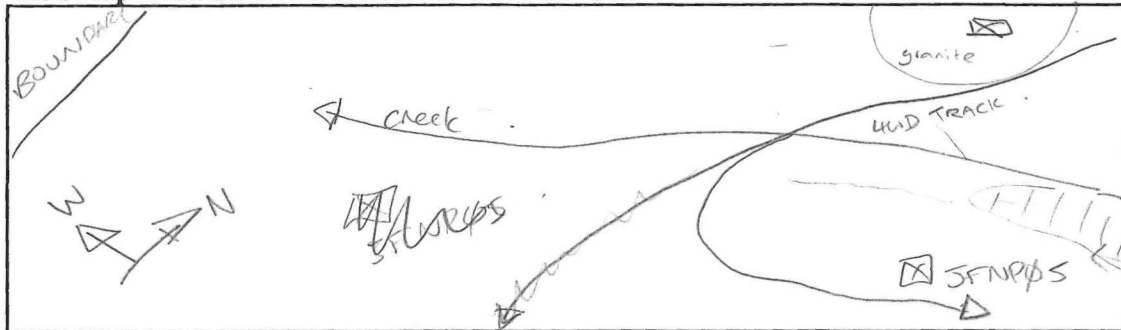
DATE TRIP 13/9/96 RECORDERS AM & ML

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 4WD track 29.2

Geographic Location Latitude 31 52 30.2 S Longitude 116 04 27.5 E Altitude 110m
GPS NO FIX Accuracy ±300
Map Sheet Mundaring

Photograph Name _____ Number 5 Roll # 2

Topographic Position (Circle the correct response)
Upland _____ Lower slope _____
Upper slope _____ Valley _____
Midslope 3 Washline _____

2. SITE DATA Circle the correct response

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

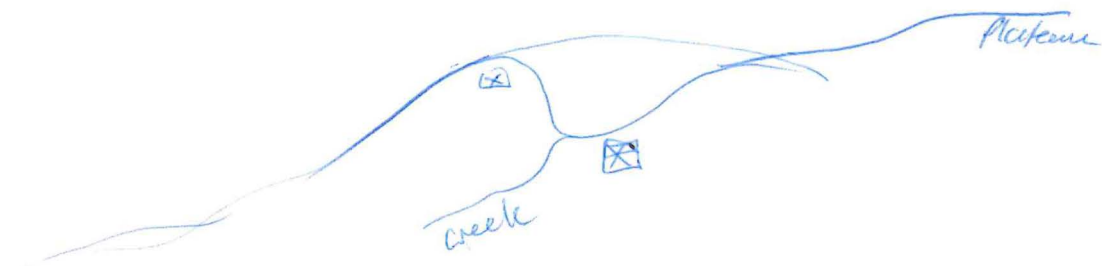
Surface Soil gritty clay Depth to Rock >1m Colour red

Exposed Rock type granite % surface cover 30 size range 2cm - 15cm

Litter 10 % surface cover Depth (cm) 2-3cm

Bare Ground 40 % 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 (Mulr)- 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					
	over 15m	5-15m	under 5m	MALLEES	
				over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2-10%				
DOMINANT SPECIES	E. wandoo				
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			2-10%	50-70%	10-30%
DOMINANT SPECIES			X. preissii Tey. ledifolium	H. lissocarpa Hibb. hypericoides Hales. myrtoides	Loxocarya flexuosa
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		Bar over 70%			
DOMINANT SPECIES		Rich Mixed herb			

4. VEGETATION CONDITION

(site No JFNP 04 = 3!)

Comments

3 1/2

History grazing

Adjacent 15m E. wandoo

2-pronged problem.

13

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 11 JFNP05

Date 13/9/96

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	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
E. wendoo.	V							Haemodorum "strap leaf"			
								Anagallis arvensis	V		
								Drosera multiple stems			1/1
								Quercus uilleei	V		1/1
								A Drosera rosette red.			1/1
								Centropogon aristata	V		1/1
MALLEES								Tender leaved Herb? - G. micrantha			
				GRASSES				Hydrocotyle alata			
				Neracorea alopec.	V			Oxosera "shield" lvs.	1/1		
				Aira canyoph/chapaniana	V			Brizula sp. Aphelia bipula			
SHRUBS				Boragin maxima	V			Centropogon small			
Hakea issocarpa	V			Briza minor	V			Haemodorum in cantine lvs.	V		
Hypo angustifolia	V							Romulea rosea	V		
Baechea camphor.	V							SEDGES			
Hypericium hypericoides	V							Loxocoryne flex	V		
Xanthorrhoea plessii	V							Caesia parviflora			
Metelueca schra.	V			HERBS				Glistrocaryon sp.	V		
Hypericium comutatum/orata	V			Panicum sp	V			Anagallis arvensis	V		
Hakea myrtoides	V			Drosera dumby pink.				Hypoxis occid	V		
Astroloma compactum (grey)	V			Stylidium bulbiferum	V			(etc)			
Toynatium ediphan	V			Hypochaeris glabra	V			Thysanotus sp basal rootlets			
Leucopogon pulcherrimus				Primula antenodes	V			Wurmbea sp. Wurmbea dioica			
Dorsia pulchella seedling	V			Daucus glochidiatus	V			Stylidium perpusillum			
				Romulea rosea	V			Prasophyllum s.			
				Homalosciaden homolocarpus	1/1			Opephallaria echino?	V		
				Bunga splerocephala	V			Melilotus/trifolium			
				Cryngion pinaal/pden	V			Trachymene pilosa			
				Parentucellia sp.	V			Isolepis marginate	V		
				Xanthosia candida	V			Schoenus annui	V		
								Caladenia sp lvs upright hairy leaf			
								Lagenifera hirsuta			

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 JFNP05

Record on Sheet

Date 5-12-96

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								<i>Alychnorhiza</i> sp.			
								Vulpia = annual grass			
								<i>Acacia pulchella</i> (seedling)			
								Tiny <i>Coodera</i> ? ? capsules			
								<i>Hydrocotyle</i>			
MALLEES								Annual <i>Schoenus</i> / <i>Isolepis</i>			
								<i>Centropus aristata</i>			
				GRASSES				<i>Danthonia</i> sp.			
								<i>Trachypogon pectinatus</i>			
								(<i>Crinia</i>) <i>anthemoides</i>			
SHRUBS								Small <i>Haemodorum</i> sp.			
								<i>Hydrocotyle</i>			
								SEDGES			
								? <i>Hakea</i> : <i>crinita</i> ←			
								<i>Nahbergia</i> ? or <i>Linearis</i> ?			
								<i>Thymosia</i> sp.			
				HERBS				<i>Trichocline</i> sp.			
								Pink, opp-leaved herb			
								<i>Lobelia</i> sp (purple)			

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 JFNP05

Record on Sheet

Date 13.9.96

clats 5.12.96(R)

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. wandoo	✓	—	1/2	Tripternococcus brunonis	✓	✓	—	Wurmbea diocea	✓	✓	✓
Xanthorrhoea preissii	✓	—	1/2	Calium divaricatum (la-u)	✓	✓	—	Trachymene pilosa	✓	✓	✓
				Phyllanthella pygmaea pig.	✓	—	—	Thysanotus tenuellus	✓	✓	—
				Hypochaeris glabra	✓	—	1/2	Daucus glabridiatus	✓	✓	1/2
				Ursinia anthemoides	✓	—	1/2	Eryngium pinnatifidum pinn.	✓	—	1/2
Hakea cinerea	✓	—	R	Bonania rosea	✓	—	1/2	Hydrocotyle callicarpa	✓	✓	1/2
Thomsonia foliosa	✓	—	R	Bonania sphaerophylla	✓	—	1/2	Quinella unvellei	✓	✓	1/2
Hakea lissocarpa	✓	—	1/2	Anacardium occidentale	✓	—	✓	Goodenia micrantha	✓	✓	R
Myrtil. ledifolium rostratum	✓	—	✓	GRASSES				Stylidium petiolare	✓	✓	✓
Acacia pulchella	✓	—	1/2	Aira caryophylla	✓	✓	1/2	Rumex seedlings??	✓	✓	—
Acacia barbinervis	✓	✓	—	Braja minor	✓	✓	1/2	Wahlenbergia preissii	✓	✓	1/2
Astroloma ciliatum	✓	✓	1/2	Ulpia nigra	✓	✓	R	Drosera menziesii	✓	✓	1/2
Hypocalymma angustifolium	✓	—	1/2	Braja maxima	✓	—	1/2	Drosera heterophylla	✓	✓	1/2
Nerica spathulata	✓	—	✓	Dalmanella setacea	✓	✓	R	Drosera rosulata	✓	✓	✓
Hibbertia hypericoides	✓	✓	1/2	Newmachia abepecuridea	✓	—	1/2	Bartsia Hixago	✓	✓	✓
Hibbertia commutata	✓	✓	1/2	HERBS				Centropus drummondiana?	✓	—	—
Leucopogon pulchellus	✓	✓	✓					Trifolium dubium	✓	✓	✓
Hakea myrtoides	✓	✓	✓					Lagenifera luegelii	✓	—	—
Metaleuca aff. scabra	✓	✓	1/2								
Hibbertia sp. sterile	✓	✓	—	Praesophyllum gracile	✓	✓	✓	Tricholine spathulata	✓	✓	R
Hakea lissocarpa	✓	✓	—	Caladenia ? sp. (sterile)	✓	✓	✓	Lobelia vlytidospalma	✓	✓	R
Baeckea amphioxyma	✓	—	1/2	Paterosia pygmaea subsp. pygmaea	✓	—	—	Centaurium erythraea	✓	✓	R
Xanthosia candellor	✓	—	1/2	Galium (murale) sterile(?)	✓	—	—	Bonania constricta	✓	✓	—
				Stylidium bulboferum (sterile?)	✓	✓	✓	SEDGES			
Caesia micrantha	✓	—	✓	Paventucellia latifolia	✓	✓	1/2	Schoenus sculptus	✓	✓	✓
Hypoxis occidentalis	✓	—	✓	Cassutha pomiformis	✓	✓	1/2	Isodais marginata	✓	✓	1/2
Opuntia sp. echinocarpa?	✓	—	1/2	Glischrocaryon aureum var. aureum	✓	—	1/2	Schoenus unispiculatus	✓	✓	1/2
				Tribonanthes longipetalus (sterile?)	✓	—	—	Baumea rubiginosa ?	✓	✓	—
				Haemodorum simplex	✓	✓	1/2	Schoenus nanius	✓	✓	1/2
				Centropus aristata	✓	✓	1/2	Juncus capitatum	✓	✓	R
				Aphelia cyparoides	✓	✓	✓	Juncus bufonis	✓	✓	R
				Homa homalorapium	✓	✓	1/2	Desmodium asper	✓	—	1/2

G. micr
+ prop

(C. snail)

