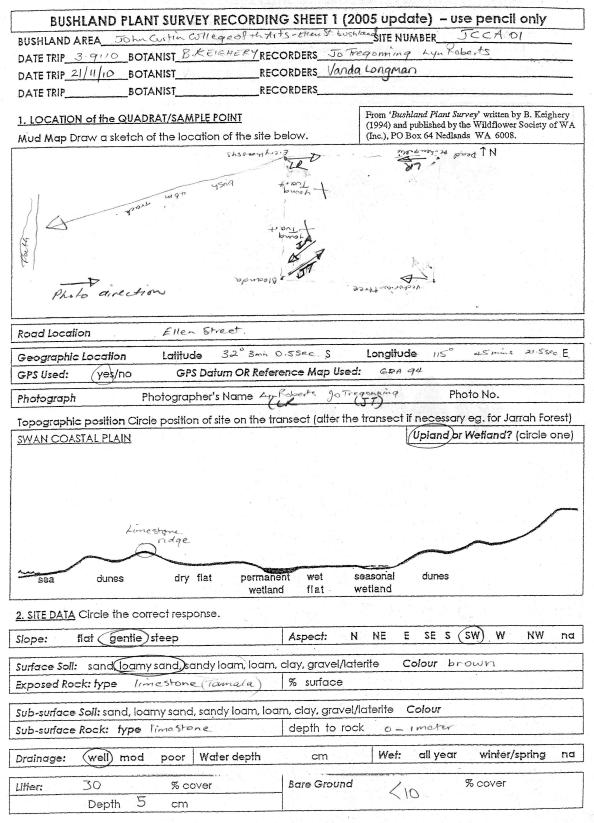
## **11. APPENDICES**

## APPENDIX 1 Quadrat data sheets

#### **Quadrat JCCA01**



# BUSHLAND PLANT SURVEY RECORDING SHEET 2 (2005 update) - use pencil only

#### 3. VEGETATION STRUCTURE AND COVER

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

For each layer **record** – appropriate **growth form**, **cover class** (see below) and **dominant species** in their order of dominance, up to a maximum of 3 species. If more than 3 species are obviously dominant record as many as appropriate to describe each layer. For NVIS record max. height of layer & % crown cover to nearest 5%.

					- 70% o	ver 709	/0	10
		TREES			MALLEES	Sec.		
	over 30m	10 – 30m	Un	der 10m	over 8m		under 8m	
GROWTH FORM	A CONTRACT		• •	LW			VoSM	30 10
COVER CLASS (%)		#	# 2-10	2. (6%) 3·5,#		#		-
HEIGHT & CROWN							2-10% 2% 2m	_
DOMINANT			KE, evgt	hrocorys6				
SPECIES			EUC. go	ompn;			Eucalyptus	-
					a sin dependency in		petrensis	
		SHRUBS		e e e e e e e e e e e e e e e e e e e	SF	IRUBS	مربقة المربعينين الجريم مربقة المربعينين الجريم	
	over 2m		2m –	lm			der 1m	
	DT5		os			OLS		1
	9 -101	# /	1-100	17	1 #	4	ACULAR COSTONER	- 1
HEIGHT & CROWN COVER (NVIS) DOMINANT	2-107. 97. 3m Mehleura huege		2-1070 37, coc acia saligi luptis petro	li7m hlearis hac lis	# 2- 2 Acacià Calotha		carpa	
ieight & crown cover (nvis) DOMINANT	970 3m		37. coc acia saligi lyphis petro	1	2 Acacià 1 Calotha	lasio	carpa	5
cover class (73) Height & crown Cover (nvis) DOMINANT SPECIES	97, 3m Mehleura huege GRASSES	III IO Aaa Euca Drya HE	37. coc acia saligi lyphis petro	hleanis n <del>ac</del> f <del>is</del> subsp. cygnor	2 Acacià 1 Calotha	lasio	carpa	S
HEIGHT & CROWN SOVER (MVIS) DOMINANT SPECIES GROWTH FORM	97. 3m Mehleura huege GRASSES CG	2/11 10 Aaa Euco Drya HE HB	37. coc aaa saligi hypkis petro nova sessilis RBS	hleanis n <del>ac</del> f <del>is</del> subsp. cygnor	2 Acquia 2 Acquia Calotha Im DGES	lasio MNUS O	carpa quadrifidu	;) 1m
HEIGHT & CROWN COVER (NMS) DOMINANT SPECIES GROWTH FORM FORM FORM	9% 3m Mebleura huege GRASSES CG 770%	2/11 10 Aaa Euco Drya HE HB	37, coc aca salig hyphis petro rova sessilis RBS ** ** ** ** *	hleanis n <del>ac</del> f <del>is</del> subsp. cygnor	2 Acquà Calotha	lasio MNUS O	Carpa Quadrifidu THER (eg. ferns	
HEIGHT & CROWN DOVER (MMS) DOMINANT SPECIES GROWTH FORM DOVER CLASS (78)	97. 3m Mehleura huege GRASSES CG	2/11 10 Aaa Euco Drya HE HB	37. coc acia saligi hyphis petro rolva sessilis RBS ** ** ** 15cm ba	hleanis n <del>ac</del> f <del>is</del> subsp. cygnor	2 Acquia 2 Acquia Calotha Im DGES	lasio MNUS O	Carpa Quadrifidu THER (eg. ferns	s) Im
HEIGHT & CROWN DOVER (NVIS) DOMINANT SPECIES GROWTH OVER CLASS (78) EIGHT & CROWN OVER (NVIS) DOMINANT PECIES	97. 3m Mebleuca huege GRASSES CG 7709. 709. 709. 15cm Mixed	# 30-709 # Freesia all x (eichti	37. coc aca salig hyphis petro rolva sessilis RBS	hlearis hec fi <del>s</del> subsp. cygnor se	2 Acquia 2 Acquia 1 Calotha 1 DGES	lasio MNUS O	Carpa Quadrifidu THER (eg. ferns	;) 1m
HEIGHT & CROWN COVER (NMS) DOMINANT SPECIES GROWTH ORM OVER CLASS (5) EIGHT & CROWN OVER (NMS) DOMINANT PECIES	97. 3m Mebleura huege GRASSES CG 7709. 709. 709. 15cm Mixed ON CONDITION - Keig	# 30 -70 9 # Freesia all x (eichting (give reasoning fo	37. coc aca salig- hyphis petro rotra sessilis RBS **********************************	hlearis nec Subsp. cygnor SE	2 Acauà 1 Calotha 1 DGES 4 4 4 4 4 4 4 4 4 4 4 4 4	lasò mnus m	Carpa Quadrifidu THER (eg. ferns (085	;) 1m
HEIGHT & CROWN DOVER (NMS) DOMINANT SPECIES GROWTH CORM OVER CLASS (5) EIGHT & CROWN OVER (NVS) DOMINANT PECIES . VEGETATI 'PRISTINE'	97. 3m Mebleura huege GRASSES CG 7709. 709. 709. 15cm Mixed ON CONDITION - Keig	# 30 -70 9 # Freesia all x (eichting (give reasoning fo	37. coc aca salig- hyphis petro rotra sessilis RBS **********************************	hlearis nec Subsp. cygnor SE	2 Acauà 1 Calotha 1 DGES 4 4 4 4 4 4 4 4 4 4 4 4 4	lasò mnus m	Carpa Quadrifidu THER (eg. ferns (085	;) 1m
HEIGHT & CROWN DOVER (MMS) DOMINANT SPECIES GROWTH CORM SOVER CLASS (78) EIGHT & CROWN OVER (MMS) DOMINANT PECIES	97. 3m Mebleura huege GRASSES CG 7709. 709. 709. 15cm Mixed ON CONDITION - Keig	# 30 -70 9 # Freesia all x (eichting (give reasoning fo	37. coc aca salig- hyphis petro rotra sessilis RBS **********************************	hlearis nec Subsp. cygnor SE	2 Acauà 1 Calotha 1 DGES 4 4 4 4 4 4 4 4 4 4 4 4 4	lasò mnus m	Carpa Quadrifidu THER (eg. ferns (085	;) 1m
HEIGHT & CROWN DOVER (MMS) DOMINANT SPECIES GROWTH FORM FORM FOVER CLASS (%) EIGHT & CROWN FOVER CLASS (%) EIGHT & CROWN FOVER CLASS (%) FORMINANT PECIES VEGETATIN 'PRISTINE' EXCELLENT	9% 3m Mebleuca huege GRASSES CG 770% 770% 70% 15cm Mixed ON CONDITION - Keig COMMENT 21/11/10 D regenera Ha	# 30-709 # Freesia all x (eichti	37. coc aca salig hyphis petro rolra sessilis RBS # 15cm ba 15cm ba inii 11 stion Conditio r choice) quadrificatu	hlearis here Subspacygnor SE Subspacygnor SE SE SE SE SE SE SE SE SE SE	2 Acauà 2 Acauà 1 Calotha DGES 4 4 4 5 preissii , A	lasò mnus m	Carpa Quadrifidu THER (eg. ferns (085	s) Im

	10 4 2	0006. 1.1.1	0																												
plant's name or working name if required			LIENDO (COULL.)											SEDGES																and the second of the second second	
s name or v	secies flow			>	7	7				>	>	1	. >	>						7	~	~	2				s City is			111 11 11 11 11 11 11 11 11 11 11 11 11	
plant's i	ICK if sp	check	2	Arat 1	2					6.	14	01		1 17						11 = (	15. 19	FH) 13	120			100					Street Street Street Street
site code,	1 plant name. 2 plant number 3 flowering time-	Column 4 Identification clip SHRUBS (cont.)	1	Haken prostrata seedling in aucoliat	atus gomohocenhall				GRASSES	*Lagurus ovatus	Howeverd grass & commerce asses.	Kape tules - Moraca flacida	KBronue diandrus	* Zupinus Eosentinii (FH)					HERBS	* Aussia alba x leichtinii (FH)	* 145 imachia (prev. Amagallia) arvensis.	1.1	· · · ·			<ul> <li>Construction and the second secon Second second sec</li></ul>		And a state of the second state of the second s	and the second se		and the second
nt wit	tet	H		-				>	>			1	>	1	)	7 5	2	>	7					>	>	2			-		Contractor Canado
		PN N	(EH) 1 12					9 -	(FH) · 8				I · wn	2	0)	77 .	-	7 (FH) · 7	01.	Laugacent 1 15				(EH) · 21	Cidus (FH) . 22	. 13				· · · · · · · · · · · · · · · · · · ·	and the second se
SITE NO JECH OI		TREES	Califoris pressi				MALLEES	E. ergthnacorts	E. porensis			SHKUBS	Alle		31	Access Fruncaua	Access Cockeans	ã.		KINESTU MORGH MALL. I		X	0	Haken withtate.	Catothamaus quadrik	Netium oleander					

## Quadrat JCCA02

	BOTANIST	RECORDI	ACTS ERS V DN TZI		IBER JC		
			ERS Vanda L		Salt !!	10000	11-11/
DATE TRIP	and the second	RECORDI				even roye	
		KECORDI	LK3		1121 J 10	10.0	
LOCATION of the G Mud Map Draw a sk				(1994) and pt	and Plant Survey Iblished by the V x 64 Nedlands	Wildflower S	B. Keighery Society of WA
		Bui	LDING		1	ŤΝ	
							HIWOMP
x = GPS loca	iton		× BI	.6m			84550
x=GPS loca	lanc. free						
		Ŧ	llenst		8		
Road Location							
		- 0 021			1 - 2		
Seographic Location		2003'0.6"			15°45	99.	E
GPS Used: (yes/r	no GPS Datu	um OR Reference	Map Used:	SDA	94		
hotograph	Photographer's	Name			Photo	No.	
			t (alter the ti		pland or We		ah Forest) circle one)
		permanent	wet sea	asonal			
SWAN COASTAL PLA	dry flat	permanent wetland	wet sea		pland or We		
SBA dunes	dry flat e correct response.	permanent wetland	wet sea flat we	asonal tland	pland or We	and? (c	circle one)
WAN COASTAL PLA Sea dunes	dry flat	permanent wetland	wet sea	asonal	pland or We	and? (c	
Sea dunes SEA dunes SITE DATA Circle th lope: flat ge	dry flat e correct response. ontie steep oarny sand, sandy l	permanent wetland Asp oam, loam, clay,	wet sa flat we pect: N gravel/lateri	asonal tland NE E	pland or We dunes SE (S) SW	and? (c	circle one)
WAN COASTAL PLA Sea dunes . <u>SITE DATA</u> Circle th lope: flat ge urface Soil: sand, (	dry flat e correct response. ontie steep oarny sand, sandy l	permanent wetland Asp oam, loam, clay,	wet sea flat we pect: N gravel/later	asonal tland NE E	pland or We dunes SE (S) SW	and? (c	circle one)
SWAN COASTAL PLA Sea dunes 2. SITE DATA Circle the Stope: flat ge Surface Soil: sand, f Exposed Rock: type	dry flat e correct response. antie steep oamy sand, sandy l limestone	permanent wetland Asp oam, loam, clay, %	wet sea flat we pect: N gravel/later surface	Asonal tland NE E ite Col 2-10	dunes SE (S) SW	and w	circle one)
WAN COASTAL PLA Sea dunes . <u>SITE DATA</u> Circle th lope: flat ge urface Soil: sand, (	dry flat e correct response. entie steep oamy sand, sandy l limestone d, loamy sand, sanc	permanent wetland Asp oam, loam, clay, % ly loam, loam, cla	wet see flat we pect: N gravel/lateri surface () ay, gravel/la	Asonal tland NE E ite Col 2-10	dunes SE (S) SW Cour green Nour green	and w	circle one)
WAN COASTAL PLA Sea dunes . SITE DATA Circle th lope: flat ge urface Soil: sand, ( kposed Rock: type ub-surface Soil; sand	dry flat e correct response. oamy sand, sandy l limestone g, loamy sand, sand ype limesto	permanent wetland Asp oam, loam, clay, % ly loam, loam, cla	wet sea flat we pect: N gravel/later surface	NE E terite Col 	dunes SE (S) SW Cour green Dour green	and w	vircle one)
WAN COASTAL PLA Sea dunes . SITE DATA Circle th lope: flat ge urface Soil: sand, ( xposed Rock: type ub-surface Soil; sand ub-surface Rock: f	dry flat e correct response. oamy sand, sandy l limestone g, loamy sand, sand ype limesto	permanent wetland Asp oam, loam, clay, % dy loam, loam, clay me depth	wet sou flat we pect: N gravel/laten surface ay, gravel/la oth to rock	NE E terite Col 	pland or We dunes SE (S) SW our gre hour gre hour gre	and w	vircle one)

## BUSHLAND PLANT SURVEY RECORDING SHEET 2 (2005 update) - use pencil only

#### 3. VEGETATION STRUCTURE AND COVER

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

For each layer **record** – appropriate **growth form**, **cover class** (see below) and **dominant species** in their order of dominance, up to a maximum of 3 species. If more than 3 species are obviously dominant record as many as appropriate to describe each layer. For NVIS record max. height of layer & % crown cover to nearest 5%.

				30 – 70% over 70% MALLEES												
	natives" (twents would have	TREES		MA	LLEES											
	over 30m	10 – 30m	under 10m		ər 8m	under 8m										
GROWTH FORM			Low Woodland	1 3		30r										
COVER CLASS (%)	<b>* A</b>		# 10-30%													
HEIGHT & CROWN COVER (NVIS)	"		" 4m 25	0 <b>"</b>	/ "  -											
			Mel, lanceslat	0												
SPECIES			101710100101													
/																
		SHRUBS			SHRUBS											
	over 2m Tall Shrubland		2m – 1m		und	er 1m										
FORM COVER CLASS (%) HEIGHT & CROWN COVER (INVIS)	10 - 30%	TTT 10 5% 21	D-30%			Im										
DOMINANT	ptospermum laevic		TA cochlearis	3												
DOMINANT	eptospermum laevic	patum 2 Acrac	na cochlearis	» * * * 3												
		patum 2 Aciac HER	na cochlearis	SEDGES	01	THER (eg. ferns)										
GROWTH	eptospermum laevic	patum 2 Acrac	na cochlearis	3	01	ln										
GROWTH FORM	eptospermum laevic	patum 2 Aciac HER	BS BS BS BS BS BS BS BS BS BS BS BS BS B	3	11 -	In										
GROWTH FORM ECVER CLASS (%)	eptospermum laevic	HER Herbland # 30-70 20cms	BS BS BS BS BS BS BS BS BS BS	3	W	ln										
GROWTH FORM COVER CLASS (%) HEIGHT & CROWN COVER (NVIS) DOMINANT	eptospermum laevic	HER Herbland # 30-70 20cms # Romulea ros	BS $\frac{1}{68}$ $\frac{1}{68}$ $\frac{1}{$	3	W	In										
GROWTH CORM COVER CLASS (%) HEIGHT & CROWN COVER (NVIS) COMINANT	eptospermum laevic	HER Herbland # 30-70 20cms # Romulea ros * FREESIA all	BS $3^{3}$ /3 $48^{3}$ /3 4	3	W	lr										
GROWTH FORM COVER CLASS (%) HEIGHT & CROWN COVER (NVIS) DOMINANT SPECIES	GRASSES	HER Herbland # 30-70 20cms # Romulea ros # FREESIA all # DXALIS P	BS $\frac{1}{2}$ $\frac{1}{$	SEDGES		lr										
GROWTH FORM COVER CLASS (%) HEIGHT & CROWN COVER (NVIS) DOMINANT SPECIES	GRASSES	HER Herbland # 30-70 20cms # Romulea ros # FREESIA all # DXALLS p hery (1994) Vegeta	BS 4 $4$ $468^{\circ}/6ea$ $5$ $4ea$ $5$ $4es$ -capitate thion Condition Scc	SEDGES	#											
GROWTH FORM COVER CLASS (%) HEICHT & CROWN COVER (NVIS) DOMINANT SPECIES 4. VEGETATION	GRASSES	HER Herbland # 30-70 20cms # Romulea ros # FREESIA all # DXALLS p hery (1994) Vegeta	BS 4 $4$ $468^{\circ}/6ea$ $5$ $4ea$ $5$ $4es$ -capitate thion Condition Scc	SEDGES	#											
DOMINANT SPECIES GROWTH FORM COVER CLASS (%) HEICHT & CROWN COVER (NVIS) DOMINANT SPECIES 4. VEGETATION 1 'PRISTINE' 2 EXCELLENT	GRASSES	HER Herbland # 30-70 20cms # Romulea ros # FREESIA all # DXALLS p hery (1994) Vegeta	BS 4 $4$ $468^{\circ}/6ea$ $5$ $4ea$ $5$ $4es$ -capitate thion Condition Scc	SEDGES	#											
GROWTH FORM COVER CLASS (%) HEICHT & CROWN COVER (NVIS) DOMINANT SPECIES 4. VEGETATION 1 'PRISTINE' 2 EXCELLENT 3 VERY GOOD	GRASSES	HER Herbland # 30-70 20cms # Romulea ros # FREESIA all # DXALLS p hery (1994) Vegeta	BS 4 $4$ $468^{\circ}/6ea$ $5$ $4ea$ $5$ $4es$ -capitate thion Condition Scc	SEDGES	#											
GROWTH FORM COVER CLASS (%) HEICHT & CROWN COVER (NVIS) DOMINANT SPECIES 4. VEGETATION 1 'PRISTINE' 2 EXCELLENT	GRASSES GRASSES	HER Herbland # 30-70 20cms # Romulea ros # FREESIA all # DXALIS P	BS BS BS BS BS BS BS BS BS BS	sedges sedges minant. y herbs. minant i	# #											

				1		Tuin			
Label each plant with plants Record on Sheet	+ with	number, site code,	plant	plant's name		or working r	name if required		
		- ^					From 'Bushland Plant Survey' written by	Plant Survey	" writte
		3 flowering time-	TICK i	f spe	cies	TICK if species flowering	B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 64 Nedlands WA 6008	4) and publi y of WA (In 6008	shed b c.), PO
90	FI ID	SHRUBS (cont.)	cneck	2	FI ID		HERBS (cont.)		No l El In
Melaleyca lanceolate (FH) 1 1	7					her			-
						1	* Hupochaen's rai	rad : cata ·	23
	-					* Galium	sp.	-	24
						long small	not leave	-	25
						* Lagurus	is ovatus	-	30,
	-					* tall m	5	terraena.	18
-	-			-					
\$ 70	>			+					
	+					-			
	-	* Ki KUUU - Pennisetum clandestinum	-	28	>				
	+								
C	-				-				
V	N V								
2 N	>					SEDGES		(	
+0	>			+	-	Desmoclerolus	dus flexuosus	E)	9
N.	1				-				
>4	R			+					+
12	1	HERBS		+	T				+
. 28	>	*Romulea rosea	1	7	>				
. 29	>	*Freesia albax reichtinii	-	SCr	5 1				-
Oleanoles * Nerium pleander NIS	>	HOYalis Pes- earrae	1 2 2	9	>				
Subsp. cynorum 39	>	Lagunus ovat	~	6	>				
07 . 10	>	* Hydochaenis radicata	1.	10	>				
	-	UNITEN PARE 1204 Sanchus	0) 641 648 .	11	>				-
	-	Milley tall Englavia	1 "Styded	12	1				
	-	Hardenbergica contratomização		3	7	•			-
	_	Thichomore Ellator	•	17	7				-
		0110	-	8					
	-	× clover * Medicago polymorpha	•	6	7				-
	+	GREGINIAM	-	20	7				_
		* Hunner on alate		5	1				_

	Г	1	by ihe ox		5	Т	T	T	Π	Т	Т	Т	T	T			Т	Т	Т	Т	<b>—</b>						1					-		-
			From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 64 Nedlands WA 6008.	I III	-			+			+	+	1				-	-		+	-	-	-	-		-	-		-			-	-	-
		12	wri hed .), P	2				-	- `	+		+		+	$\left  \right $	-	-		+					-	-				-	_	_	_	_	
			'vey' ublis (Inc	4	-	-	1					-	-		$\left  \right $				-	+	-	1		-	_					_	_	_	_	1
			Sul NA WA 18.	•																			1				Sugar							
			lant S t) and v of W. 6008.											No.													100							
		p	nd F 1994 ciety WA					1																			. Sec.							
		luire	From 'Bushland F B. Keighery (1994 Wildflower Society 64 Nedlands WA					10									1																	
		req	'Bu: lighe lowe dlan	1		1.04		30-0				-		1		2																		
		ij	rom . Ke /ildf 4 Ne	ont		in policy of	1																										.2	
		me	L U Z Q	0	1	1											S											19						
		na		HERBS (cont.)													SEDGES																	
		or working name if required	b	E													SEI																	
		vor	erir,		1.1.1	1.0	a series																											
	vlno	N V	flow											10.0																				
			G	0			and and				T		1									1	2		7	1			-	+		1	+	1
	pencil	mer	oeci	ш								T									-	8+M	3		-	1	1			+		+	+	
	pe	plant's name	TICK if species flowering check	2	-						T	T	8			1	+		+		-	33 W		33	+	-		-	+	+	-	+	+	-
	use	lant	X							1	T	1	K Bulfalo a rass Astenotaphyum secundatum 38								-	3	- 3	5	t	-	-	+	+	+	+	+	+	-
		d	TICK										nolati					1			t	E	Ē									1		
	3a-	pui	plant number flowering time- identification										Secu		1	1					ľ	3												
		code, date and	plant number plant number flowering time identification										um										ma											
1-	HE	dat	nu nu ning fiics										phy									1	maritima		ens									
ADJACENT	SURVEY RECORDING SHEET	code, o	plant plant floweri identif										20 to												caryophyllaceus									
2	Z		i d f i										Ste		1	1						4	Lobularia		pha		1			2				
S	ORD	ite	a) aa	con						1			*								-	0	pa		ohr									
A	ECO	S F	- N M 4									S	30									* Tumaria capreo lata	3	00										
0	2	Column	Column	SUB UB								SSI	G	2							BS	co	5	8	SN									
A	Ne l	unu S		ES I								GRASSES	0/10								HERBS	00	X-WISSUM-1	Stemmed	SHIVIDAD									
19	SUR	s .								1.			S	-			10				-	Ba	SD	0	ad									
1.1.1		olan					ľ						39								L	ATU A	E	L Ve	5									
	PLANT	5		₽	1	T				-			×			1	1				ť	T	1	F	K	+	+	+	+	+	+	+	-	+
	<u>a</u>	ž,		Ξ	+				-	-				+	+	1		<u>-</u>	$\left  \cdot \right $	+	+	-		-	+	+	+		+	-	+	+	+	-
	2	plant with plants number, site Sheet • Column 1		2					-					+	62	NV.	24	14 19					-	-	+	+		+	+	+	-	+	+	
	BUSHLAND				1		$\uparrow$		-					-		100 =	27.	r ×		+	+	-		+-	+	+	+	+	+	+	+	+	+	
	HSU	Record on														1.00										1						1		
	m	ord										1			0	1ª	aspera														ŀ			
	1	Rec													4		Spo																	
															EF	1											1	1						
							1							1.	nia	Q	ea																	
1	UND			S						EE				00	38	OC	nga																	
	00	0		TREES					18	MALLEES				Salians		100	DQ																	
	SPECIES DDESCENCE	Y		+						Σ				J	Value * Washington filter (FH)	I a Si DCOLDO	6 Dobonea	g			1													
	U L	R													1*1	K													1				1	
	CHC				1										N	21.1	Xi	200												1	1.			
	0	SITE No JCCA02	e			1							1		Da	Acalia	ALYXIO	Dr.					1				1							
	٦٢	ES S	Date												×	ŀ		14-					1						1					
			and the provide stand and	ala pe	legi-	Acres	CE	Sec. estes	in alle	and the	Section of the sectio	ale the	. Transie	1.	Section Section	2.55	and NA.	-		3	-	-	-		نيب به ا			-	-L		-			1.1.1